

# Undergraduate Prospectus

## 2018-2020





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## Rector's Message

Dear students,

We live in a globalized world. Our students, alumni and researchers are competing in a national, but most importantly in an international level. The competition is fierce and we have the duty to provide our youth with excel skills and competencies.

In our days it becomes increasingly important that education, and especially higher education, advances and thrives, responding to the demands of a constantly changing environment and contributing to the multileveled development of the society.

The University of Cyprus has set a goal to belong among the top universities of Europe and the whole world. It is for that reason that the University is constantly developing, in order to become an institution of outstanding social contribution and a reference point among the international scientific community.

Focused on teaching excellency provided by internationally recognized academics who work tirelessly to motivate and support you during your studies and with the support of a competent administrative staff, the University of Cyprus consistently strengthens the existing programs of studies, improves and develops its infrastructures in order to provide a unique educational experience.

As the new class of undergraduate students, I am certain that you feel proud to have been admitted to study at the highly selective University of Cyprus.

This prospectus offers basic information about the University for potential and current undergraduate students, as well as any other interested party. In it you will find all that you need to know about studies, rules, regulations and services as well as a complete list of the programmes of study offered in every faculty and department. There is also information regarding student life and the basic aspects of the University's structure, function and contribution.

Details on student activities, clubs and sports are also included in the prospectus. It is up to you, the students, to get the most out of the opportunities available.

I wish you a creative student life, which will probably be the most productive in your lifetime!

A handwritten signature in blue ink that reads "Constantinos Christofides". The signature is fluid and cursive, with a horizontal line underneath it.

Professor Constantinos Christofides  
Rector

# General Information



The University of Cyprus was founded in 1989 as the first public university of the country, and admitted its first students in 1992. Even though it has been functioning for a short period of time, it has been acknowledged both on a local as well as on an international basis, both for its teaching level and research, as well as for its great contribution to the society. Consequently, admission to the University is very competitive. Many University of Cyprus graduates have been accepted for postgraduate studies - most with full scholarships - in some of the most reputable universities internationally.

## Main Objectives

The main objectives of the University of Cyprus are twofold: the promotion of scholarship and education through teaching and research, and the enhancement of the cultural, social and economic development of Cyprus. In this context, the University believes that education must provide more than the simple accumulation of knowledge. It must also encourage students' active participation in the process of learning as well as the acquisition of those values and life skills necessary for responsible and active involvement in the society. At the same time, the University sets high standards, through the research programmes of its departments, aiming for the foundation and growth of all branches of scholarship and their dynamic utilization both at a local and an international level.

## Research Activity

Original research is one of the primary activities of the academic staff. Undergraduate and postgraduate students, as well as research assistants may be involved in the research process.

The research programmes of the University of Cyprus cover a wide range of topics in accordance to the already existing specializations. Some of them are funded by European frame programmes (such as the HORIZON 2020, ind. ERC and Marie Skłodowska-Curie Actions, ERASMUS+, INTERREG, LIFE, COST, EEA GRANTS) and others by national competitive programmes (for example, the A. G. Leventis Foundation and the Research Promotion Foundation) which fund the majority of external research programmes. For the success of its academics in research and innovation, the University of Cyprus has been nominated with international awards in various domains and based on international evaluations it is placed in extremely honourable positions world-wide.

The University is a member of a number of international university associations and networks. It also cooperates, through inter-state and inter-university agreements, with universities and research centres in Europe and internationally, for the promotion of science, scholarly research and exchange of information. The University, within the framework of its social contribution, cooperates with various institutions in Cyprus on research projects that are specifically aimed at the needs of local industry and the economy in general.

## Research Centres/Units

A number of research centres and research units operate at the University of Cyprus as independent, non-profit organizations committed on conducting rigorous and innovative research. The research centres and units aim at developing research at a local, European and international level in their specific scientific fields and attract a large number of research projects funded by research promotion organizations locally and abroad. Research projects that apply directly to Cyprus are considered as particularly important, as they make a significant contribution to Cypriot society, specifically in the sectors of economy, industry and culture.

The following research centres/units operate at the University:

- Archaeological Research Unit
- Centre for Applied Neuroscience

- Centre for Banking and Financial Research
- Centre for Gender Studies
- Economics Research Centre
- EMPHASIS Research Centre
- International Water Research Institute "NIREAS"
- KIOS Research and Innovation Center of Excellence
- Language Centre
- Modern Greek Studies Research Centre
- Molecular Medicine Research Centre
- Oceanography Centre
- Research Centre for Sustainable Energy- FOSS
- University of Cyprus Centre for Field Studies

## The Academic Staff

The academic staff comprises of Cypriots, Greeks and international scholars that have been distinguished in remarkable universities of Europe, the USA and other parts of the world.

## Governing Bodies

The University is a public corporate body governed by its Council, that is responsible for the management of the administrative and the financial affairs of the University, as well as the Senate, that is the highest academic body of the University. The Faculties and Departments are administered by Boards; each Faculty is headed by a Dean and each Department is headed by a Chairperson (see relevant Appendix).

## Administrative Services

The Administration is composed of the following Services:

- Academic Affairs and Student Welfare Service
- Financial Services
- Human Resources Services
- Information Applications Services
- International Relations Service
- IT Infrastructure Service
- Library
- Research Support Service
- Technical Services

Administrative Services provide the infrastructure and support required for the implementation of the University Council's and the Senate's decisions and policies.



The head of the Administrative Services is the Director of Administration and Finance, a non-voting member of the University Council and the Senate. He is responsible for the implementation of the University's development plans as well as the organization, coordination and development of the administration of the University, ensuring effective and productive operations. He also advises the Council on matters within his jurisdiction, including financing, budgeting, personnel, external affairs, student affairs, facilities, etc.

## UNIVERSITY BUILDINGS

The University is currently housed mainly at the University Campus, as well as at the Central Campus. The historic buildings of the Central Campus (former Pedagogical Academy of Cyprus) were fully renovated, while retaining their initial architectural style and are still being used. On this Campus, two additional buildings were constructed: The New Wing (Building E) and Wing B (Building B). The University owns or rents other buildings in Nicosia in order to cover its housing needs, until the full completion of the new Campus (see relevant Appendix).

The Campus Development Office was established to supervise the project of the New Campus and it is responsible for its management, coordination and development. Architectural competitions ensure that the University secures the best innovative ideas, designs and construction management for the various buildings on the New Campus. Upon completion, the University Campus will accommodate a total of 10.000 students.

Specifically the following projects were completed in chronologically order: the basic infrastructure of the University Campus, the Services and Stores Buildings, Student Residences (Phase 1a), the Faculty of Pure and Applied Sciences, the Common Teaching Facilities I, the University House "Anastasios G. Leventis", which houses the management and most of the administrative services of the University, the Sports Centre, the Faculty of Economics and Management, the Common Teaching Facilities II as well as the Social Facilities Centre.

The Learning Resource Centre "Stelios Ioannou" is one of the most significant achievements of the developmental plan which was designed by the renowned architect Jean Nouvel and it is expected to be completed in early 2018.

The construction of the building of the Faculty of Engineering is in process, as well as the renovation and the energy and anti-seismic upgrading of the Central Campus.

Meanwhile, the design of the facilities of the Department of Biological Sciences and Common Teaching Facilities III is well underway and the tendering procedure for the construction of this project is expected to be launched early 2018. In addition, the design of the new Medical School building premises on Campus is under process.

Construction works concerning the renovation of the Shacoleio Educational Centre for Clinical Medicine, where the Medical School is temporarily accommodated, were completed, as well as the construction and operation of the "PHAETHON" Photovoltaic Park. An international competition

is expected to be launched concerning the design and construction of "APOLLO" Photovoltaic Park (10MW), so that the University will become a net-zero energy institution depending solely on clean green energy.

## LIBRARY

The University of Cyprus Library aims to create the necessary resources and a reliable information environment that will enhance learning and progress at the University as well as benefit the local society.

The Library, in its collections, includes information sources both in print and in other physical format (e.g. audiovisual material) as well as in electronic format.

All library material is searchable through the Library Catalogue (<http://library.ucy.ac.cy/>).

### Premises

Within 2018 will move to its new premises in the University Campus, the Library 'Learning Resources Centre "Stelios Ioannou", a building designed by the internationally acclaimed architect Jean Nouvel. The five-storey building will bring together all Library collections, will have a capacity of approximately 900 study places, including specially arranged rooms for group study, and will feature the latest technology equipment.

### Information Resources

The Library has a wide variety of information resources: print, electronic and audiovisual, aiming to cover the needs of all academic fields being taught or researched. Electronic resources are available through the Library's individual subscriptions, through packages from its participation in the Association of Cypriot Academic Libraries, as well as from freely available sources on the Web. More specifically, collections include:

### Books

The Library collection includes approximately 355.000 books. Books are classified according to the Library of Congress Classification System and are searchable through the Library online public access catalogue.

### Electronic Books

The collection includes 463.000 electronic books and is accessible through the Library website. Access to the full text of the collection is possible only by connecting to the University network.

### Databases

Users, via the Library website, have access to 160 current bibliographic databases, statistical and economic databases, full-text collections, etc., while the total number of databases, taking into consideration previous subscriptions and freely available databases as well, is 310. Access to the full text of the databases is possible only by connecting to the University network.

## Print Journals

There are 7170 Greek and foreign print journal titles, 408 of which are current, which can be searched through the Library catalogue.

## Electronic Journals

The Library website provides access to approximately 30.000 e-journal titles. Access to the full text of the databases is possible only by connecting to the University network.

## Digital Collections

The digital archive of the Library includes rare print and audiovisual sources. The Library aims to preserve the sources and provides access to all members of the UCY academic community and the public in general.

## Reference Material Collection

Apart from the electronic reference collections, print resources such as encyclopedias, dictionaries, etc., are also available. Users can search through the Library online public access catalogue.

## Audiovisual Material Collection

The collection includes CDs, DVDs, maps, audio cassettes, microfilm, microfiche, etc., as well as the equipment required for educational and research use of this material. The collection is searchable through the Library catalogue.

## Services to users

### Library Use

All members of the University of Cyprus (students, faculty and administrative staff), as well as external users, are free to use the Library facilities, services and collections.

### Lending Services

Lending Services manage the availability of Library material: lending, renewal, return, reservations, recalls, handling of circulation-related enquiries and administration of user fines.

All University members have a University card and have the right to borrow material. External users not affiliated with the University of Cyprus may use the reading areas and open-access collections. They are given borrowing rights upon registration as library members and upon payment of an annual fee.

## Interlibrary Loan Service

The service undertakes to provide users with books, articles, conference proceedings, etc., that are not available in the library collection and are essential for research. For this purpose, the Library has established collaboration with international networks (Interlibrary Loan Network of Hellenic Academic Libraries, the Interlibrary Loan Network of the National Documentation Centre (NDC), SUBITO in Germany, the British Library, etc.). The Library also assists other libraries in Cyprus and abroad to fulfil their users' information needs.

## Services to Blind and Visually Impaired Users

In 2000 an adaptive workstation was installed for blind users, as well as a portable magnification device for visually impaired users. The workstation is equipped with software and devices that enable blind users to use the digital library without the mediation of sighted persons.

The Library works in collaboration with the academic staff and the School for the Blind to digitally reproduce all necessary course material for visually impaired students. In 2005 the Library joined the DAISY Book Consortium.

## Research Assistance

### Information Literacy

The Library holds educational seminars to familiarize users with its collections, resources and services. The seminars aim to help library patrons develop and enhance their information literacy skills so that they can benefit fully from the Library's resources.

## Bibliographic Management Tools

Bibliographic management tools are available through the Library website. They allow users to import bibliographic references directly from online databases and websites to a personal database, to create and organize their bibliographies in a personal database, to format their bibliographies (MLA, APA, Chicago Manual of Style, etc.), as well as to create bibliographies in academic papers.

## Ask a Librarian

The service is accessible via the Library website and is available to the UCY academic community and external users.

### • AskLive

Patrons can use the AskLive Service to ask brief and specific reference questions related to the collections, resources and services of the UCY Library. Replies are sent via real-time chat.

The service is available through the Library website from Monday to Friday, 08:30- 13:30, excluding holidays.

### • By appointment

Users can schedule a research consultation appointment for personal assistance in a variety of areas: to find appropriate print and electronic information sources on a particular topic; to become familiar with the Library catalogue and collections; to learn how to use library resources and tools, including library catalogues, databases, other electronic resources and RefWorks.

The service is available primarily to members of the academic community of the University of Cyprus and, as time permits, to external patrons.

## European Documentation Centre (EDC)

The European Documentation Centre (EDC) of the University of Cyprus was established in 2012, in order to provide information about the European Union's legislation

and institutions. It forms part of a network of 400 documentation centres that were established by the European Commission after 1960.

The EDC of the University of Cyprus is open to members of the Academic and the wider community during the Library's working hours. Its collection includes printed material and online resources regarding the EU and its policies, such as: official publications, annual reports, journals, statistical and economic databases, bibliographies, textbooks and pamphlets, etc. Monographs and print journals are searchable through the Library catalogue.

## **IT INFRASTRUCTURE SERVICE**

### **Account Services**

All students are entitled to a University Account (username/password), which will facilitate their access to the various University systems such as email, labs, student registration system (Banner), Blackboard, remote access service (VPN), UCY wireless network (ucywifi), European Universities wireless network (eduroam), etc.

Accounts can be set up online at [www.ucy.ac.cy/register](http://www.ucy.ac.cy/register). All accounts include the tools needed for their management (password change, forgotten password change through answering predefined questions, forgotten username recovery).

Users will be authenticated once and can access the rest of the resources, authenticated for the remainder of their use of a service.

### **Email Communication & Collaboration Services**

For every member of the University's community, the University offers a personal electronic mail box and email address, as well as calendar services, contacts, tasks and e-briefcase services, all with sharing capabilities. These services are made available to the community either via the web tool at [www.ucy.ac.cy/itis](http://www.ucy.ac.cy/itis) or via locally installed applications on the users' personal computers. For the faculty and staff, these services are also available on mobile devices.

### **Electronic Storage and Tools Services**

Individual electronic space is available to students who wish to store data and/or create web pages. Unix tools are also available for teaching purposes.

### **Open Access PC Labs**

Labs and personal computers as well as printing facilities are available for use by the University community. These are equipped with a wide variety of teaching software and are available for project work and teaching purposes.

### **Network Services**

High-speed network access to the internet and other network services are provided.

### **Telephony Integrated Services**

Integrated Services include telephony, electronic fax, softphone and voice mail. An important telephone service is the Call Center, which provides callers with up-to-date information on the University.

### **Wireless Network**

Wireless network is available in almost all buildings of the University. It is used to support lectures, conferences, seminars and many different events.

### **Residential Halls - Network Services**

Network services are available in all rooms of the residential halls.

### **Multimedia and Videoconference**

Specialized video conference systems are available for communication, tele collaboration and research as well as multimedia systems utilized for teaching and research purposes. Audiovisual material production and management is also provided for e-learning, teaching and research and for audiovisual coverage of events.

### **Helpdesk**

Phone support is available for all central services of the IT Infrastructure Service. Our goal is to offer efficient and knowledgeable support related to IT systems.

### **Remote Access Service (VPN)**

This service allows authorized University users secure access to the University's intranet from wherever there are internet facilities. The user, therefore, has access to all University online resources (e.g. the library's electronic journals).

### **Data Security and Protection Service**

The University network and core systems are monitored in order to detect anomalies and prevent security risks and malicious behavior. It also investigates all security incidents.

### **Antivirus Service**

Antivirus protection is provided to all University-connected computers and servers (e.g. labs).

### **Antispam Service**

All emails directed to University addresses are scanned prior to delivery. This is to ensure that the mail service functions efficiently and to protect users from malicious viruses. This service also helps reduce the number of unsolicited messages (SPAM).

## **INFORMATION APPLICATION SERVICES**

### **E-Learning**

Students who register for courses using the e-learning system are able to access all course material using their personal accounts.



## Educational Services

At the beginning of the academic year the Information Applications Services offers intensive educational seminars on the use of web applications and the e-learning system. Interested students may register online at [www.ucy.ac.cy/issrequests](http://www.ucy.ac.cy/issrequests)

## E-University

The E-University project aims at providing automated and qualitative services to the University academic community, exterior contracting institutions and the wider society. These services are focused on the qualitative support of research and teaching through the use of information technology; in other words, to establish a functioning Electronic University (e-University). This requires both the design of new processes and the adoption of a new working mentality. Users can access these services via the university portal at <https://portal.ucy.ac.cy>

## INTERNATIONAL RELATIONS

The University of Cyprus is an active member in more than 50 university networks/associations worldwide, both at international and departmental levels, including the European University Association (EUA), the Association of Mediterranean Universities (UNIMED), the Network of Universities from the Capitals of Europe (UNICA), the International Association of Universities (IAU), the Santander Group (SG), the Euro-Mediterranean Universities Network TETHYS, the European Association of Erasmus Coordinators (EAEC), the European Inter-University Centre for Human Rights and Democratization and others.

The University has also established close contacts with numerous international organizations, including the European Commission, UNESCO and the Council of Europe. This international cooperation, enhanced by the academic staff is collaboration with universities and research institutions abroad, positions the University of Cyprus favourably in the international scholarly community.

The University has also signed Bilateral Agreements of Cooperation with more than 110 universities/research institutions in Europe, Australia, the Middle East, Asia, USA, Canada and Africa. These agreements, facilitate student and academic staff exchanges, joint research projects, conferences and exchange of teaching and research material. Additionally, the University offers 10 joint degree programmes (at Masters' and Ph.D. levels) in collaboration with other European institutions (e.g. the University of Athens - Greece, Poitiers University - France, Wageningen University - Netherlands, etc.). Moreover, the University of Cyprus has signed a number of Cotatelle agreements with institutions abroad.

Student and staff mobility is a major tool of the internationalization strategy of the Institution. The University has been participating in the ERASMUS + Programme since the academic year 1997/1998 and in the ERASMUS+ International since 2015/2016. Exchanges can also take place within the framework of Bilateral Agreements of Cooperation.

Organizing Summer Schools, with student participation from abroad and in collaboration with academics from partner institutions, contributes significantly in the internationalization of the institution.

The University of Cyprus maintains close links with the Cypriots and Greeks of the Diaspora, and as a result it is considered by the Global Forum on Migration and Development as one of the key institutions that have an active role on Diaspora issues.

Every year an intensive learning and cultural programme for the study of the Greek language is organized at the University of Cyprus, which is intended for young Cypriots from Canada, the USA, Australia, the UK, South Africa and Greece. The Programme, which is co-organized with NEPOMAK, the Cyprus Youth Board and the School of Greek Language of the University, is financed by the Republic of Cyprus. A delegation of teachers of the Diaspora from the USA visits the University every July.

Throughout the year, the University welcomes delegations from institutions/organizations from the international arena, diplomatic delegations of other countries to Cyprus, as well as Cypriot diplomats based abroad, student organizations of the Diaspora.

International relations play a crucial role in the promotion of the University of Cyprus, resulting in its good reputation internationally for the quality of both research and teaching. For this reason, the University has been chosen by the Headquarters of the Instituto Cervantes in Madrid for the establishment on its premises the Aula Cervantes in 2011. The Aula offers Spanish language classes to university students and to the public in general and it also organizes the DELE examinations in collaboration with the Instituto Cervantes.

Significant development was the establishment of the Confucius Institute on the University's premises (October 2014), which is the first to be established in Cyprus. The Institute is a joint venture with the Office of Chinese Language Council International (Hanban) and the Beijing Institute of Education. Its mission is to collaborate with the public and private sectors, both in Cyprus and in China, so as to develop stronger educational, research, cultural and commercial links between the two countries by offering a large spectrum of programmes, events and other activities.

The University of Cyprus has been aiming at attracting more international students. The University of Cyprus has been aiming at attracting more international students. There has been an increase in the number of international students, due to the fact that more postgraduate programmes of study are being offered in English and due to the basic infrastructure of the University of Cyprus [www.ucy.ac.cy/periodicpublications-en](http://www.ucy.ac.cy/periodicpublications-en)

The University of Cyprus has been entitled by the London Times as one of the 200 "most international" universities in the world for the year 2015-2016, due to its constantly growing presence in the international arena.

## LECTURES/CULTURAL ACTIVITIES

The University of Cyprus organizes public lectures and other events with focus on issues of scholarly, scientific, cultural as well as on topics of wider interest. Furthermore, it organizes exhibitions, concerts, prize awards and other activities open to the general public.

The institution cooperates with many cultural organizations, local authorities, and others to promote culture, both for the benefit of the academic community and the students, as well as for society at large. Examples are the contest of visual arts "Telemachos Kanthos" and the presentation in 2016 of the artistic creation called 'Immigrants' made by students of the High School of St. Luke in Colossi, which projection was made at a European level.

Furthermore, six Free Universities operate in cooperation with municipalities and other parties: The Zenonion Free University in cooperation with Larnaca Municipality, the Free University of Famagusta in Limassol in cooperation with the Municipality of Famagusta, the Ierokipeion Free University in cooperation with the Municipality of Yeroskipou, the Free University of Cypriot Diaspora in London, the Salaminio Free University of Famagusta in cooperation with Diocese of Constantia in Paralimni and the Free University of the Occupied Municipalities of Kerynia.

The University has already made a dynamic impact on the cultural and intellectual life of Cyprus. Its contribution is growing as the programmes of teaching and research are expanded.

## PUBLICATIONS

In order to provide comprehensive information to the public, the students and to prospective students, as well as to the international academic community, the University of Cyprus produces a wide range of publications. Most of the information publications are produced by the Publications Office (International Relations Service), in cooperation with the University's services and other entities of the University. A substantial number of publications are also produced by the Promotion and Development Sector. For further information on the University's publications, please visit the website at [www.ucy.ac.cy/publications/en](http://www.ucy.ac.cy/publications/en)

One of the forums the Academic Staff of the University of Cyprus present their rich publishing and writing work, is through *Research at the University of Cyprus-Research Profiles and Publications*.

The Cyprus University's input in the publishing activity was enhanced with the dynamic contribution of the Cyprus University press. The main objective of the Cyprus University Press is to support and promote the writing activity, not only in Cyprus and in Greece, but internationally as well. For more information on the Cyprus University Press' books, please visit the website at [www.ucy.ac.cy/pek](http://www.ucy.ac.cy/pek)

## CULTURAL CENTRE

The Cultural Centre of the University of Cyprus, which operates under the Faculty of Letters and is located at the Axiothea Mansion, in the historic centre of Nicosia, is an internationally acknowledged institution that promotes culture and the arts as part of academic education, celebrates cultural diversity, encourages the involvement of undergraduate and graduate students, as well as alumni of the University, in cultural and artistic activities, cherishes the millennial traditions of Cyprus and the wider Euro-Mediterranean region, and fosters the universal values of European civilization.

With its activities, the Cultural Centre pursues the twofold mission of adding a holistic perspective to traditional academic education, and promoting Euro-Mediterranean culture as a common asset, which has been accumulated through centuries of interaction among nations and ethnic groups in the region. The first part of the mission is realised through the Theatrical Workshop of the University of Cyprus (THEPAK), which complements academic education and literary research by involving students in the stage presentation of known or less familiar masterpieces of Greek literature that have as a common denominator the idiomatic language of peripheral Hellenism. By applying interactive approaches to literary research and re-enacting poetry, fiction and non-fiction as drama, THEPAK deepens students' knowledge, understanding and appreciation of literature, while contributing to the general promotion and modern reception of valuable works of Greek literature in Cyprus and abroad.

The second part of the Cultural Centre's mission is realized through the annual Cultural Festival of the University of Cyprus, which aims at promoting culture and the arts, and encouraging the creative endeavours of certain established but primarily emerging non-commercial artists from Cyprus, Europe and the broader Mediterranean region, thus enriching the cultural agenda of Cyprus with high-quality performances that enhance the perception of the Euro-Mediterranean region as a common cultural area.







# Studies and Student Life



## Undergraduate Studies

The undergraduate programmes of studies at the University of Cyprus are based on the European Credit Transfer and Accumulation System (ECTS). According to the analytical academic programmes of the various departments both B.A. and B.Sc. degrees require the completion of at least 240 ECTS. The 240 ECTS include credit units from three or more elective courses (not included in the student's specialization) which should be taken from two or three different faculties of the University depending on the department. All undergraduate programmes require two or three courses in a foreign language. The student's performance in the foreign language is included in the average mark.

The academic year comprises of two semesters. Eight semesters are normally required for graduation, but in special cases the duration of studies may be extended to a maximum of twelve semesters. Additional courses are also offered during the Summer Semester. Attendance is compulsory. The languages of instruction are Greek and Turkish (the official languages as stipulated by the Constitution of the Republic of Cyprus). In the Department of English Studies, the Department of French Studies and European Studies and the Department of Turkish Studies classes are taught in English, French and Turkish respectively.

Each year around 1500 undergraduate students enter the University of Cyprus. Today there are approximately 5300 undergraduate students (See Chapter II for more information).

## Fees

For Cypriot students and students admitted from EU countries total €1.709 per semester and they are paid by the State. The fees for foreign students total €3.417 per semester.

## Pancyprian Examinations

Admission for the majority of the students that enter the University of Cyprus is based on the Pancyprian Examinations set by the Ministry of Education and Culture of the Republic of Cyprus.

## Eligibility

Those eligible to participate in the examinations are Cypriot citizens or those with at least one parent of Cypriot origin. Prospective students must have graduated from a six-year high school, and have completed the necessary application forms within the time limits set by the Ministry of Education and Culture.

Additionally, students who are studying in the final year or have graduated from upper secondary schools (upper secondary level), operating legally in a foreign country, provided that the Leaving Certificate which is going to be acquired or which has already been required, entitles admission to respective institutions of higher education of that country.

Moreover, EU nationals and third country nationals who are studying in the final year or have graduated from a public or private upper secondary school (upper secondary level) in Cyprus, recognized and registered by the Ministry of Education and Culture, are eligible to participate in the Pancyprian Examinations.

## Right to claim and hold a position at the University of Cyprus

The candidates who take all the necessary papers to the department they apply to, have the right to claim a position at the University of Cyprus. For male candidates who secure a position at the University of Cyprus and cannot attend due to their service in the National Guard, their entry is deferred for the academic year that begins after their release from the National Guard.

## Registration

Those who secure a position at the University of Cyprus must complete a special application online form according to instructions issued during notification of results.

## Admission by Special Criteria

Candidates who take the Pancyprian Examinations and who meet specific special criteria set by the Regulations and Rules for Studies and Student Affairs, can claim for a limited number of positions (up to 14% of the Cypriot applicants). These positions are offered to candidates who belong to families with special circumstances (e.g. children of disabled parents due to acts of war, children of missing persons, persons living in the occupied area of the country, etc.), candidates with disabilities (e.g. quadriplegics, paraplegics, blinds, etc.) and candidates belonging to other

special categories (e.g. athletes with distinctions, parents of underage children, etc.). Admission is open only to candidates who achieve a certain minimum grade at the Pancyprian Examinations.

## Admission by International Examinations

Cypriots belonging to the Religious Groups of the Republic of Cyprus (Armenians, Maronites, Latin), Cypriots with dual citizenship, repatriated Cypriots, Cypriots who are permanent residents in other countries, children of foreign service officers of Cyprus, Greeks of the Diaspora, EU nationals and non EU nationals can claim a limited number of positions (3% of the admitted Cypriot students) based on GCSE/GCE, International Baccalaureate or other equivalent examinations.

For further information, please visit the Academic Affairs and Student Welfare Service's website at [www.ucy.ac.cy/fmweb/en](http://www.ucy.ac.cy/fmweb/en)

## Entrance Examinations by the Ministry of Education in Greece

A limited number of positions (10% of the total number of admissions) are offered to candidates that participate in the entrance examinations set by the Ministry of Education of Greece. The candidates must fill in the application form of the University of Cyprus and the positions are offered based on their entrance examinations results. These examinations can also be taken by Cypriots residing in Greece.

## Turkish Cypriots

Turkish Cypriots who hold a six-year high-school Leaving Certificate or who succeed in special written or oral examinations organized by the departments, are eligible for admission to the University of Cyprus.

## Candidates with Athletic Distinctions and Distinguished in the International Olympiads

High achieving athletes with distinction results as set by the Sports Council, and distinguished candidates in the International Olympiads (e.g. Mathematics, Computer Sciences, Biology, etc.) who have been awarded with the first, second and third medals, may be admitted at the University of Cyprus based only on their Lyceum Leaving Certificate, without having to take the entrance examinations. For any further information, please contact the Academic Affairs and Student Welfare Service.

## UNDERGRADUATE STUDIES REGULATIONS

Copies of rules and regulations on matters of studies and student life, and copies of the laws and regulations ratified by Parliament are available at the Information Office of the Academic Affairs and Student Welfare Service, the Student Union office and at the Academic Affairs and Student Welfare Service's website at [www.ucy.ac.cy/fmweb/en](http://www.ucy.ac.cy/fmweb/en)

## Postgraduate Studies

The University of Cyprus offers more than 100 innovative, advanced and recognized graduate programmes at a Master's level and Doctor of Philosophy, in a wide range of

subjects based on course work and dissertation or thesis, respectively. Postgraduate studies are regulated by the University rules and regulations. There are approximately 1800 postgraduate students. Further information on postgraduate studies can be obtained from the secretariats of the relevant departments or the Graduate School. ([www.ucy.ac.cy/graduateschool/en](http://www.ucy.ac.cy/graduateschool/en))

## STUDENT SERVICES

All students are assigned an academic advisor who assists them in academic matters. The Academic Affairs and Student Welfare Service is responsible for registration, documentation, accommodation, financial aid and social support. ([www.ucy.ac.cy/graduateschool/en](http://www.ucy.ac.cy/graduateschool/en)).

### Information Office

The Information Office provides information on all student issues including studies, housing, welfare, counselling, career, sports, etc. The information is provided personally, by phone and by e-mail ([fm@ucy.ac.cy](mailto:fm@ucy.ac.cy)).

### International Support Office

The Office ([www.ucy.ac.cy/internationalsupport](http://www.ucy.ac.cy/internationalsupport)) provides (a) information to the foreign students about studies at the University of Cyprus and (b) support to all non-European student and staff seeking to immigration requirement and visa issues such as entry visa, issuance and renewal of residence permits in Cyprus, medical examinations, etc.

### Careers Office

The Career Office is the link between students and graduates with the labour market and the postgraduate studies.

The Office aims at enhancing the professional skills and competences of students and graduates. Seminars and workshops are organized each week to enhance necessary skills for employment, such as "Time Management", "Presentation Techniques", "Problem Solving", etc. At the same time, seminars are organized to help students enter the labour market, such as "Preparation of Curriculum Vitae and Cover Letter", "Preparation of Personal Statement", "Interview Techniques", "LinkedIn", etc.

The connection with the labour market is mainly achieved through the organization of presentations for employment prospects in a variety of business disciplines, a Business Game competition and a Career Fair, with more than 70 potential employers involved.

The Careers Office also provides guidance for postgraduate programs offered abroad, information on scholarships, as well as useful links and websites with useful references that help students make an informative decision.

### Employment Opportunities

The University has a limited number of vacancies available for students' employment. The Careers Office informs students about temporary job vacancies both within and outside the University. Graduate assistantships are sometimes available, depending on individual department needs.

Full-time and part-time vacancies addressed exclusively to students and graduates of our University are announced through the Careers System. Uploading their Curriculum Vitae onto the system, students and graduates can get informed about available vacancies. Also, the Careers Office informs students of a limited number of positions in the various departments of the University in the form of part-time, hourly work while during the summer period, an internship program for short placements of students in Cypriot enterprises is being implemented.

## Psychological Support, Counseling and Personal Development

The University of Cyprus provides free of charge psychological support and counseling services for all its students through the Mental Health Centre. The primary aim of this service is to contribute to the well-being of students, so as to enable them to maximize their experience during the course of their studies and after. Services are offered through individual or group psychotherapy and counselling sessions. Common concerns among students visiting the Centre include anxiety, stress, relationships, mood swings, problems to do with their academic life (difficulties in adjusting to their new way of life, etc.), a loss of a beloved person as well as personal or career decisions that need to be taken.

The Centre also organizes presentations and workshops on issues relating to students' psychological well-being. It launches prevention and sensitization campaigns on topics related to psychological health and well-being in collaboration with student and youth groups, as well as with stakeholders and organizations in the broader community. Such activities can also be planned upon request by student groups or departments. It also periodically publishes and disseminates relevant informative material in print or through its website.

### Financial Aid

The Social Support Office of the Academic Affairs and Student Welfare Service provides guidance on financial problems. Students with serious financial problems may be subsidized by the Student Welfare Fund. The Fund is supported financially by the University of Cyprus as well as external contributions and donations.

### Services for Students with Disabilities

Students with disabilities are treated as equals to all other students, whilst every effort is made to offer practical solutions to their specific problems, such as access to the University facilities, or assistance on academic issues. Students with disabilities should contact the Social Support Office of the Academic Affairs and Student Welfare Service.

### Scholarships for Greeks and Greeks of the Diaspora

Seven scholarships (€3.845 each) are awarded by the Cyprus Government to Greek students based on their examination results. Furthermore, the State offers meal coupons every semester to students who are Greek citizens or Greeks of



the Diaspora. The coupons are equivalent to €7 each and they are valid on weekdays at the University restaurants. They are given to students by the Student Life Office at the beginning of each semester.

### Student Accommodation and Catering

The University of Cyprus operates a number of student dormitories (208 bed spaces) on the new campus. For information regarding the cost and criteria for campus accommodation/other details, students may contact the Housing Office of the Academic Affairs and Student Welfare Service.

Due to the limited number of bed spaces available on campus, the Housing Office maintains a list of flats and houses for rent. This list is available on a weekly basis, during the academic semesters. The Housing Office provides advice on matters related to campus accommodation. A substantial number of informative leaflets are also produced by the Housing Office.

### Accommodation for ERASMUS Students

ERASMUS students attending classes at the University of Cyprus may be accommodated in single rooms in the campus dormitories. ERASMUS students should inform the Housing Office of their accommodation needs by June 15 for the Fall Semester and by November 15 for the Spring Semester.

### Health

Cypriot students may apply to the Ministry of Health, in order to obtain a Medical Card for healthcare in public hospitals. There are conditions/criteria one has to meet for obtaining a Medical Card. Also, under certain conditions, they can be covered as dependents of their parents. Information and application forms regarding Medical Cards for healthcare in public hospitals can be obtained from the Ministry of Health's website: [https://www.moh.gov.cy/moh/moh.nsf/index\\_en/index\\_en?OpenDocument](https://www.moh.gov.cy/moh/moh.nsf/index_en/index_en?OpenDocument)

The University of Cyprus, in order to help students and particularly the less advantaged students on healthcare issues, has created the "Solidarity Fund Neophytos Chandriotis for Healthcare", where all students contribute a small amount each year and enjoy healthcare benefits according to the financial capability of the Fund. Related information can be found on the University website: [www.ucy.ac.cy/tamioallilegiis](http://www.ucy.ac.cy/tamioallilegiis)

There are two Health Centers at the University: one is located at the University campus on Kallipoleos Avenue and the other is located at the new University campus. The Health Centers, which are supervised by the Medical School, provide information and advice on health issues, and offer first aid and nursing services. Their services are available to all students as well as the wider university community. The Centers cooperate with the Ministry of Health and other government and semi-government services. For more information on the Centers, including contact information and working hours, can be found on the University's

website: [ucy.ac.cy/hr/el/office-of-safety-health-and-environment/22-gr-articles/office-of-safety-health-and-environment/66-health-centers](http://ucy.ac.cy/hr/el/office-of-safety-health-and-environment/22-gr-articles/office-of-safety-health-and-environment/66-health-centers)

## STUDENT LIFE

### Student Union

The Student Union of the University of Cyprus was founded in 1993. Its highest body is the General Assembly and its executive body is the Administrative Council, which has 21 members elected annually by its members. Every student becomes a member of the Student Union upon registration. The Student Union is represented in all Governing Bodies (Council, Senate, Departmental and Faculty Boards).

It has a record of rich and varied activity, guided by the struggle for reunification of Cyprus and its people, peace and democracy, student problems and socio-cultural needs. Activities are directed to both its members and society at large.

### Sports

Sports has very rightly been called the greatest social phenomenon of the 20th century. It is in this spirit that the Sports Centre hopes to make its contribution to Cypriot society at every opportunity available. In order to encourage the University community (students and personnel) to participate in sports activities, a wide variety of activities is offered and the opening hours of the sports facilities have been extended as below:

- Daily, from 07:30 to 22:00 and on Saturdays from 10:00 to 16:00

The sports programme is divided into the following categories:

#### Recreational Sports

This group of activities is for people who want to improve their overall level of physical fitness. The aim of the University is to make sports an inseparable part of university life.

#### Internal Championships

Internal championships are open to the entire University community (undergraduate and postgraduate students, academic and administrative personnel). Emphasis is placed on participation as much as winning. They offer a way to improve overall physical fitness, they develop skills and techniques in a variety of sports, and they are fun.

International regulations apply to all matches/competitions. The University appends its own, stricter regulations related to discipline, since the Sports Centre respects and enforces Olympic principles.

All games are moderated by referees from official sports associations in Cyprus. The Sports Centre is fully responsible for the organization and supervision of all matches/competitions.

## Competitive Sports

This programme is designed for those who take sports more seriously and for those who wish to compete as members of the University teams. Experienced coaches oversee the training of these teams. University teams participate in the following competitions:

- Cyprus Association of University Sports Championships
- International Tournaments in Cyprus and abroad
- Pan-Hellenic Championships (EATE)
- European Championships (EUSA)
- World Championships (FISU)

## Sports and the Community

### Student Sports Clubs

The University of Cyprus offers the following basic Student Sports Clubs and other sports which can serve the philosophy of the programme:

- Squash
- Futsal
- Table Tennis
- Skiing
- Scuba Diving

The above programmes are only open to students; the University community is not eligible to participate.

## Elective Sports Courses

- Volleyball
- Football
- Tennis
- Basketball
- Judo
- Lifelong Fitness
- Squash

## Student Clubs

There are 23 student clubs at the University of Cyprus, involved in educational, cultural, artistic and entertainment activities. Students wishing to form a club must draft a statute, which must then be approved by the University authorities. The "Club Evening" is a yearly event organized by the clubs' coordination committee at which students have the opportunity to learn about the activities of the various clubs from their representatives and can register in the clubs of their preference.

The Student Life Office of the Academic Affairs and Student Welfare Service offers support in the formation and functioning of the clubs. There are also periodic workshops related to administrative and communication matters which aim to develop leadership abilities and improve communication and administrative skills.

## List of Clubs

- Archaeological Club
- Art
- Cyprus Association for Special Education
- Dance
- Environmental
- International Students Club
- Film
- IEEE
- Journalists
- Orthodox and Hellenic Tradition
- Photoclub
- Psychology
- Sailing
- "Terpsichorian" Music Group
- Theatre
- Fencing
- Sociology
- Chess Club
- Volunteer
- Greek Language and Foreign Civilizations
- Philosophy
- Handball
- Law

## ERASMUS+ PROGRAMME (2014-2020)

ERASMUS+ is a European programme which supports Education, Training, Youth and Sports. This programme, effective as of January 2014, succeeded the Lifelong Learning Programme 2007-2013.

The ERASMUS+ Programme supports activities in all areas of Lifelong Learning (primary, secondary, tertiary, adult education, and vocational education and training), as well as youth and sports activities. It has an enhanced focus on student and educator mobility, reform of overlapping programmes and greater cooperation with non-EU countries in the field of education. It is open to all European students, trainees, teachers, trainers and youth. EU grants for education or training abroad will benefit up to 5 million persons during the period 2014-2020.

The ERASMUS+ Programme comprises the following Key Actions:

- Key Action 1:** Learning Mobility for individuals (students, teachers)
- Key Action 2:** Co-operation for innovation and improved performance
- Key Action 3:** Support/Assistance for policy reform

For further information on the ERASMUS+ Programme, please contact Ms Emma Zeniou, University Officer in charge of the Mobility Support Office, International Relations Service (zeniou.emma@ucy.ac.cy and erasmus@ucy.ac.cy, tel.: +357 22894281).

## Other Student Exchanges

Within the framework of Bilateral Agreements of Cooperation, signed between the University of Cyprus and other institutions, students have the opportunity to study abroad at collaborating universities.

For more information on Student Exchange Programmes, please contact the Mobility Support Office of the International Relations Service ([erasmus@ucy.ac.cy](mailto:erasmus@ucy.ac.cy)).

## UNIVERSITY OF CYPRUS RADIO STATION

UCY Voice, the radio station of the University of Cyprus, was established in order to promote the work of the Institution, to provide information to the members of the university community and to give voice to the students. It broadcasts on the frequency 95,2 fm and from the website at [www.ucyvoice.ucy.ac.cy/en](http://www.ucyvoice.ucy.ac.cy/en)

All members of the university community - students, professors, alumni and administrative staff - can become radio producers at UCY Voice.

UCY Voice organizes seminars and workshops for the training and education of radio producers on topics such as media ethics, human rights, cultural creativity etc.

UCY Voice broadcasts on a 24-hour basis and its programmes cover the spectrum of information and entertainment.

The University's aim is the development of students' creativity, the cultivation of free speech and thought and the establishment of UCY Voice as a means of free expression.

## SCHOOL OF MODERN GREEK

The School of Modern Greek (SMG) was established in 1998 having as a main academic purpose the teaching of Modern Greek as a second/foreign language and the Greek culture. The lessons are targeted to adults, non-native speakers of Greek from within or outside the academic community.

Since 2014 the SMG offers the six language levels according to the Common European Framework for the Languages, A1, A2, B1, B2, C1, C2 in intensive (12 hours X 13 weeks), non-intensive (6 hours X 26 weeks) and intensive summer (25 hours X 4 weeks) courses. The SMG offers Greek Language courses tailored to specific needs (Greek and Cypriot expatriates, professional groups, etc.).

Upon successful completion of every programme, students are awarded a certificate. The B2 (old 3rd) and C1 (old 4th) levels are recognized by the Cyprus Government as Advanced and Proficiency respectively. The students of the UCY account for 9 or 12 ECTS depending on the programme. All students enrolled in the SMG are entitled to use the library, the computer laboratories and the sports facilities of the University of Cyprus.

The SMG is located at 75, Kallipoleos Av., 1678 Nicosia, (temporarily at the new campus).

## MODERN GREEK STUDIES RESEARCH CENTER

Since 2012 the Modern Greek Studies Research Centre - Petrondas Institute, at the University of Cyprus has been actively engaged in the promotion of Modern Greek scholarship. The Centre's main goal is the organization and implementation of research projects connected to the study of the Greek culture and the promotion of its research findings through events, talks, conferences, open lectures, film screenings and theatrical performances. Through its collaborations with other research centers it has established itself as an academic space for the creative synergy between academics, students, researchers and writers. The Modern Greek Studies Research Centre is housed in an apartment donated by Christos and Eugenia Petrondas and is located at 30 Nikodimou Mylona Street (3rd floor).



# Faculties & Departments



## Faculties & Departments

The University consists of six Faculties and two Schools:

- \* **The Faculty of Humanities**  
*with three departments and the Language Centre.*
- \* **The Faculty of Pure and Applied Sciences**  
*with five departments, the Molecular Medicine Research Centre and the Oceanography Centre.*
- \* **The Medical School**
- \* **The Faculty of Social Sciences and Education**  
*with four departments, the Centre for Applied Neuroscience and the Centre for Gender Studies.*
- \* **The Graduate School**
- \* **The Faculty of Economics and Management**  
*with three departments, the Economics Research Centre and the Centre for Banking and Financial Research.*
- \* **The Faculty of Engineering**  
*with four departments, , the International Water Research Institute "NIREAS", KIOS Research and Innovation Center of Excellence, Emphasis Research Centre and the Research Centre for Sustainable Energy - FOSS*
- \* **The Faculty of Letters**  
*with three departments, the School of Modern Greek, the Modern Greek Studies Research and the Archaeological Research Unit.*

The list of departments and their related degrees can be found on pages 22-23.

Detailed description of the programme of studies as well as information on the goals and activities of each department can be found on pages 25-346.

## Undergraduate Programmes of Study

### Department

### Degree

### Direction

#### THE FACULTY OF ECONOMICS AND MANAGEMENT

ACCOUNTING AND FINANCE

Business Administration  
Business Administration

- Accounting
- Finance

BUSINESS AND PUBLIC  
ADMINISTRATION

Business Administration  
Business Administration  
Business Administration

- Operation Management
- Management
- Marketing

ECONOMICS

International, European and  
Economic Studies  
Economics  
Mathematics and Economics

#### THE FACULTY OF ENGINEERING

ARCHITECTURE

Architecture

CIVIL AND ENVIRONMENTAL  
ENGINEERING

Civil and Environmental  
Engineering

ELECTRICAL AND COMPUTER  
ENGINEERING

Computer Engineering  
Electrical Engineering

MECHANICAL AND  
MANUFACTURING ENGINEERING

Mechanical Engineering

#### THE FACULTY OF HUMANITIES

ENGLISH STUDIES

English Language and Literature

- Anglophone Literature and Cultural Studies
- Theoretical and Applied Linguistics
- Translation Studies

FRENCH AND EUROPEAN  
STUDIES

French Language and Literature  
Modern Languages and  
European Studies

- Combination French-English
- Combination English-German
- Combination French German

TURKISH AND MIDDLE  
EASTERN STUDIES

Turkish Studies

- History and Politics
- Linguistics and Literature



## Undergraduate Programmes of Study

Department	Degree	Direction
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### THE FACULTY OF LETTERS

BYZANTINE AND MODERN GREEK STUDIES	Byzantine and Modern Greek Language and Literature	
CLASSICS AND PHILOSOPHY	Classical Studies Philosophy	
HISTORY AND ARCHAEOLOGY	History and Archaeology History and Archaeology	<ul style="list-style-type: none"> <li>• History</li> <li>• Archaeology</li> </ul>

### THE MEDICAL SCHOOL

Medical

### THE FACULTY OF PURE AND APPLIED SCIENCES

BIOLOGICAL SCIENCES	Biological Sciences	
MATHEMATICS AND STATISTICS	Mathematics Mathematics and Statistics	
COMPUTER SCIENCE	Computer Science	
PHYSICS	Physics	
CHEMISTRY	Chemistry	<ul style="list-style-type: none"> <li>• Biological Chemistry</li> <li>• Environmental and Food Chemistry</li> <li>• Chemistry of Materials</li> </ul>

### THE FACULTY OF SOCIAL SCIENCES AND EDUCATION

EDUCATION	Education-Preschool Education- Primary School
SOCIAL AND POLITICAL SCIENCES	Political Science Sociology Journalism
LAW	Law
PSYCHOLOGY	Psychology





ΤΗΡΙΟ ΣΥΜ  
ΑΝΑΣΤΑΣΙΟΝ



The background of the entire page is a photograph of a university campus. On the left, there is a modern, multi-story white building with large windows. A tall, slender cypress tree stands in front of it. In the foreground, a grassy lawn is visible. To the right, a group of students are sitting on a concrete bench, engaged in conversation. The sky is clear and blue. A large green rectangular overlay covers the right half of the page, containing white text. A horizontal dotted line separates the top section from the bottom section.

# FACULTY OF ECONOMICS AND MANAGEMENT

Dean:  
*Andreas Charitou*

Deputy Dean:  
*Sofronis Clerides*

## DEPARTMENT

- Accounting and Finance
- Business and Public Administration
- Economics





Faculty of Economics and Management

## ● ● ● ● Department of Accounting and Finance

[www.ucy.ac.cy/afn/en](http://www.ucy.ac.cy/afn/en)

### **CHAIRPERSON**

Irene Karamanou

### **VICE-CHAIRPERSON**

Spyros Martzoukos

### **PROFESSORS**

Andreas Charitou

Lenos Trigeorgis

Nikos Vafeas

Stavros Zenios

### **ASSOCIATE PROFESSORS**

Irene Karamanou

Spyros Martzoukos

Andreas Milidonis

George Nishiotis

### **LECTURERS**

Ioannis Dendramis

## INTRODUCTION

The current business environment is rapidly changing: markets are becoming increasingly global, organizations are merging, restrictions on trading transactions are being lifted and competition is becoming more intense. Information technology has created an innovative environment, that facilitates the delivery of a new range of services, the direct exchange of information, and the execution of transactions and agreements. In recent decades, developed countries have shifted their business focus from manufacturing to services, while less developed economies are also changing focus, as they attempt to fill the resulting gap in manufacturing. The recent economic crisis has affected the services sector and, even more severely, the financial services industry. The legal, business and economic environments of all countries have been affected by this economic crisis as well.

In these challenging times, only those managers with the ability to anticipate, understand and effectively adapt to the challenges and demands of today's business environment, will be able to lead their organizations to success.

Given the challenging environment that businesses and other organizations are currently facing, the Department of Accounting and Finance (AFN) aims at providing students with the skills and knowledge necessary to begin and then advance their careers, leading their organizations to financial success. The Department offers a comprehensive curriculum, which gives students broad knowledge in the diverse areas of business administration, as well as specialized in-depth knowledge in the disciplines of Accounting and Finance. The curriculum of the Department combines internationally accepted principles of business administration, with knowledge of the local business environment in Cyprus and the wider region, and emphasizes the importance of information technology as a tool for implementing the tactical and strategic objectives of an organization. The curriculum is similar to programmes offered at prominent universities in Europe and North America.

## OBJECTIVES OF THE DEPARTMENT

The main objective of the Department of Accounting and Finance is to take on a leading role in the fields of Accounting and Finance, both in Cyprus and the wider region, and to achieve international recognition as a valuable research center in regard to these areas.

This objective will be achieved through systematic effort in three directions:

- a) Providing integrated academic and scientific knowledge and training of students of the Department that will allow them to excel in their professional environment.
- (b) Supporting high quality research, which is internationally acclaimed.
- (c) Disseminating knowledge to the society at large, by organizing educational seminars and other similar programmes.

## ACADEMIC MISSION

The curriculum of the Department offers a broad education in the various fields of Business Administration and specialized in-depth education in the disciplines of Accounting and Finance. For each of these disciplines, the Department offers separate undergraduate degrees.

The core courses of the Department provide students with a comprehensive understanding of business operations. These courses cover a wide range of fundamental knowledge and provide the basis for advanced study in either of the two core disciplines offered in the Department. Students will learn critical and analytical thinking skills, as well as quantitative and computational methods, both of which are necessary to solve theoretical and practical problems. Such skills are essential in the modern business environment.

The study of Mathematics, Statistics, Computer Science and Economics is an essential preparatory part of the curriculum. Students are also required to select a certain number of elective courses from other faculties of the University, which will allow them to broaden their knowledge. Furthermore, during the last two semesters, students may choose to write a thesis, which will involve either original academic research work, or collaboration with a private or public organization to solve practical problems.

Graduates acquire the tools and knowledge they need in order to secure employment in leading management positions in a variety of organizations in Cyprus or abroad. More specifically, our graduates are qualified for employment in the following sectors: banking, securities, and insurance sectors, accounting and auditing firms, manufacturing and retailing, tourism, utilities and various public sector services.

Most important, graduates of the Department of Accounting and Finance may also acquire certain professional qualifications in Finance (Certified Financial Analyst) and/or in Accounting, such as those of Chartered or Certified Accountant, as the Department offers analogous professional courses. The Department's commitment to academic excellence is reflected in the exceptionally high success rate of our graduates in these professional exams with a number of them earning prestigious global prizes. Finally, the Department's graduates can continue their studies at the graduate level, either at the University of Cyprus or recognized academic institutions abroad. Many graduates of the Department have successfully completed postgraduate studies in prominent universities in Europe and North America. The Department also offers graduate programmes (M.Sc., Ph.D.) in Finance, an MSc in Financial Economics in cooperation with the Department of Economics, and a postgraduate degree in Business Administration (MBA), in cooperation with the Department of Business and Public Administration. The MBA Programme is offered both on a part-time and full-time basis, and the language of instruction can be either English or Greek.

## SOCIAL MISSION

The Department disseminates knowledge to society at large, by organizing a series of lectures featuring topics of local or international interest, and presented by University faculty members, distinguished guests and personalities from the business world. The Department also encourages and supports activities initiated and organized by their students. The Department actively supports the Investment Society, which is funded by the Cyprus Chamber of Commerce and Industry (CCCI).

Our students are eligible to participate in internship programmes that the department has secured with the largest accounting firms in Cyprus and in the ERASMUS+ programme, which is funded by the European Union. Students in their second, third and fourth year (only in the penultimate semester) are eligible to participate in these programmes, which permit them to study abroad for up to a year in European universities. Relevant courses successfully completed abroad can be used to satisfy the Department's degree requirements, subject to approval of the Departmental Council. Also, Erasmus participants may receive financial support in order to cover part of the expenses incurred abroad. The selection of students for participation in the programmes is on a competitive basis. Currently, the Department maintains educational exchange agreements with universities in Greece, Italy, Malta, Belgium, Austria, Spain, Portugal, Germany, Switzerland, the United Kingdom and Poland. Negotiations are underway for similar agreements with other European universities.

## UNDERGRADUATE PROGRAMMES

The undergraduate programme of the Department integrates broad knowledge of the business environment, with in-depth knowledge in the area of concentration. Undergraduate degrees are currently offered in the following specializations:

- Accounting
- Finance

All students in the Department generally follow the same curriculum for the first two years. This comprises of introductory courses in various disciplines and key courses in Business Fundamentals, designed to provide a general education and the necessary background for further in-depth study in one of the above areas of specialization. The primary objective of the programme is to give students the critical thinking and analytical skills, as well as the knowledge of quantitative and computational methods and techniques which are needed to deal effectively with any problems that might occur in their working environment.

By the end of the fourth semester, students will acquire a broad understanding of business knowledge such that they can make an informed choice of an area of specialization, that suits their interests and career objectives. In the last two years, the programme requires that students take advanced courses in their selected specialty (Business Depth). At the same time, students will consolidate and extend their knowledge, by selecting courses from other

disciplines in the Faculty of Economics and Management (Business Breadth). At this time too, students will choose their electives from other Faculties of the University, further broadening their education. In their final year of study, students are offered the option of pursuing an independent research study under the supervision of professors in the Department.

To earn a Bachelor degree, students must complete 240 ECTS. The requirements are summarized below:

### • English Language (15 ECTS)

Three courses

### • General Education (44 ECTS)

Seven courses (Economics, Mathematics, Statistics and Computer Science)

### • Free Electives (20 ECTS)

Three to five courses outside the major area of study, from at least three Faculties of the University. Introductory courses offered by the departments of Economics, Mathematics and Statistics, and Computer Science can be taken only after the approval of the student's academic advisor.

### • Business Fundamentals (52 ECTS)

Eight courses in various business disciplines (from the Department of Accounting and Finance and the Department of Business and Public Administration).

### • Business Breadth (42 ECTS)

Seven third- and fourth-year courses, outside the student's area of concentration, from the Faculty of Economics and Management.

### • Business Depth in Accounting or in Finance (54 ECTS)

Nine courses in one of the two areas of concentration offered by the Department.

### • Capstone Courses (13 ECTS)

Two mandatory courses in business strategy and business ethics.

### • Optional Senior Thesis (12 ECTS)

Instead of taking two higher level courses from the Department (one breadth and one depth) students may opt to undertake a substantial piece of independent research work during their last two semesters of studies. This option is available only for students with a GPA of at least 7.

## Mandatory Courses

### English Language

LAN 100	General Advanced English	5
LAN 101	Academic English	5
LAN 201	Business Communication for Management English	5
<b>Total</b>		<b>15</b>



## General Education

ECO 111 Principles of Microeconomics	7
ECO 121 Principles of Macroeconomics	7
CSC 032 Programming Methods for Problem Solving	6
MAS 001 Mathematics I	6
MAS 002 Mathematics II	6
MAS 061 Statistical Analysis I	6
MAS 062 Statistical Analysis II (or BPA 232 Quantitative Methods)	6
<b>Total</b>	<b>44</b>

## Business Fundamentals

AFN 111 Financial Accounting I	7
AFN 211 Managerial Accounting and Costing I	7
AFN 222 Corporate Financial Management	7
BPA 131 Principles and Practices of Management	6
BPA 231 Organizational Behavior	6
BPA 241 Introduction to Operations Management	6
BPA 244 Business Information Technology	7
BPA 251 Principles of Marketing	6
<b>Total</b>	<b>52</b>

## Capstone Courses

BPA 435 Strategic Management	7
AFN 416 Business Ethics and Corporate Governance	6
<b>Total</b>	<b>13</b>

## ACCOUNTING

The academic programme follows the standards of leading universities in Europe and North America. The primary aim of the programme is to equip students with the skills, knowledge and expertise in accounting, auditing, tax, finance and commercial law for rational decision making in the constantly changing international economic and business environment. The Department of Accounting and Finance has close links with international professional bodies, such as the Institute of Chartered Accountants in England and Wales (ICAEW), and the Association of Chartered Certified Accountants (ACCA). This cooperation provides graduates with up to eleven (11) exemptions from the professional title of the ICAEW and nine (9) from the professional title of the ACCA. Graduates of the Department have repeatedly excelled in these examinations. In the ICAEW examinations our graduates have won more than 30 global awards in the last ten years (for example, first Worldwide Award - Professional Stage overall and other first Professional Stage global awards in auditing and tax courses as well as Advanced Stage global awards). In addition, recent analysis carried out by the ACCA has shown that our graduates exhibit the highest passing rate among graduates of all other Universities.

The degree in Accounting provides excellent training for a successful career in Audit firms, in the fields of accounting, auditing and taxation, as well as in banks, semi-government, public and other private organizations. Moreover, Audit firms provide our students with opportunities to apply and extend their knowledge through internship programmes. Specifically, starting in the Spring semester of 2018, the Department of Accounting and Finance is launching a five-month internship programme with the country's largest audit firms, which will be taking place in the Spring semester of the students' third year of studies. During the internship period, students will be employed on a full-time basis as Accounting trainees, enabling students to combine their academic knowledge with practical application, gaining valuable experience that will enhance their academic knowledge and broaden their career prospects. Students also have the option of a shorter internship programme during the summer holidays (summer internship), or even to extend their internship by one more semester typically in the Spring semester of their fourth year. Graduates of the accounting programme also acquire the relevant qualifications and skills to continue their studies in graduate Master or Ph.D. programmes. A number of our graduates elected to continue their studies at leading universities in the United Kingdom and North America.

Students, who elect to pursue a degree in Accounting, will broaden their knowledge in accounting and related areas in the last two years of their studies. The following tables depict all upper-level course requirements, along with each course's prerequisites shown in parentheses. These requirements are typically fulfilled in the students' third and fourth year of studies.

## A. Depth Requirements in Accounting

**(i) Nine courses are required in this area, six of which are obligatory. These are:**

- AFN 311 Financial Accounting II (AFN 111)
- AFN 312 Managerial Accounting and Costing II (AFN 211)
- AFN 318 Auditing I (AFN 111)
- AFN 319 Taxation I (AFN 111)
- AFN 411 Financial Statement Analysis (AFN 111)
- AFN 418 Financial Accounting III (AFN 311)

**(ii) The remaining three courses may be chosen from the accounting Depth Electives offered at the time of selection. Courses from the Finance Specialism are also acceptable, upon approval by the students' academic advisor. At present, the Department offers the following accounting electives:**

- AFN 415 Contemporary Issues in Accounting (BPA 346)
- AFN 417 Auditing II (AFN 318)
- AFN 419 Taxation II (AFN 319)
- AFN 414 Energy Sector Accounting and Finance (AFN 111, AFN 222)

## B. Breadth Requirements in Accounting

(i) **Seven courses are required to be taken, two of which are obligatory:**

AFN 314 Commercial Law

PBA 346 Quantitative Methods in Management II

In addition, at least two of the breadth courses should be in Finance.

## C. Optional Thesis

Students with a GPA of 7 or higher may elect to undertake a Thesis in lieu of a Breadth Course and a Depth Course from the requirements shown above.

## D. Internships

Students who elect to intern during an academic semester based on the Department's approved internship programmes, will have to register for the course AFN 313 (6 ECTS), during the internship semester. Students who continue their internship for a second semester should register for AFN 413 (6 ECTS). Each of these internship courses replaces either a depth or a breadth course.

## FINANCE

Specialization in Finance focuses on consolidating the student's knowledge of the theoretical framework and analytical methods required for successful financial decision-making, under conditions of uncertainty prevailing in the complex, competitive and globalized business environment. Students with this specialization will develop the skills to undertake financial activities (in relation to capital markets, investment decisions and risk management) in a wide range of organizations, including banks, insurance companies, brokerage firms, portfolio management agencies, industrial firms, commercial firms and government agencies (such as the Central Bank and the Ministry of Finance). Students will also acquire the knowledge and skills necessary to continue their studies at the postgraduate level (Master, PhD), or earn professional certifications such as the CFA (Chartered Financial Analyst).

Our students, who have graduated with a degree in Finance, have been admitted to graduate programmes at very prominent universities, for example, the University of London School of Economics, Manchester, Warwick, University College London and Southampton, as well as doctoral programmes in the United States. Our graduates have also been awarded scholarships from the CFA society to pursue their professional qualifications.

The following tables depict all upper-level course requirements, along with each course's prerequisites shown in parentheses. These requirements are typically fulfilled in the students' third and fourth year of studies.

## Depth Courses

The undergraduate programme in Finance requires successful completion of nine depth/specialization courses (these courses are in addition to AFN 222 Corporate Financial Management, which is required of students in the

Department). The following five (of the nine) depth/specialization courses are required for all students who choose to specialize in Finance:

AFN 321 Corporate Finance II (AFN 222)

AFN 322 Investment and Portfolio Management (AFN 222)

AFN 325 Options, Futures and Risk Management (AFN 222)

AFN 323 Modern Capital Budgeting (AFN 222)

AFN 421 Financial Policy (AFN 321, AFN 322)

The remaining four courses are designed to allow students to customize their degree to suit their particular interests, and/or to expand their knowledge of finance topics and application areas beyond their specialized focus. Students, who specialize in Finance, may choose the remaining four depth courses from the list below (two out of four Finance depth courses may be also replaced by other appropriate courses offered in Accounting or Economics, upon approval by the students' academic advisor:

AFN 324 Bank Financial Management (AFN 222)

AFN 411 Financial Statement Analysis (AFN 111)

AFN 422 Public Finance (AFN 222)

AFN 423 International Financial Management (AFN 322)

AFN 424 Financial Modeling (AFN 322, BPA 343)

AFN 425 Contemporary Issues in Finance (AFN 222)

AFN 426 Insurance and Risk Management (AFN 222)

## Breadth Courses

Students majoring in Finance must select seven courses (42 ECTS) from the other fields of the School of Economics and Management (Accounting, Management Science, marketing, Management and Economics). These requirements are met by taking a course in Economics, two courses in Accounting, three courses from the other fields, and the course, BPA 346 Quantitative Methods in Management II. Students are encouraged to choose breadth courses from the suggested list below. (Students can also replace up to two depth courses in Finance from the list below, provided that the same course is not used to meet other requirements). Finance students, who are interested in obtaining exemptions from professional Accounting exams, are encouraged to consult their academic advisor at the beginning of the third year of their studies.

AFN 311 Financial Accounting II

AFN 312 Management Accounting and Costing II

AFN 318 Auditing I

AFN 319 Taxation I

AFN 415 Contemporary Topics in Accounting

AFN 417 Auditing II

AFN 418 Financial Accounting III

AFN 419 Taxation II

ECO 306 International Finance (if AFN 423 is not taken)

ECO 310 Money, Banking and Financial Markets

ECO 370 Topics in Financial and Monetary Economics

ECO 415 Game Theory

ECO 473 Applied Econometrics

PBA 343 Applied Mathematical Modeling

PBA 447 Quantitative Methods in Management III

The above requirements allow Finance students to claim all exemptions from professional Accounting examinations offered by the Department. Students, who are interested in the exemptions, should consult their Academic Advisors at the beginning of their third year of study.

## MINOR IN ACCOUNTING

The Department of Accounting and Finance offers a Minor in Accounting for a limited number of students from other departments. This offers students from other disciplines the opportunity to add a business dimension to their degree. The course requirements for this degree are indicated below. Students are required to take ten of the following courses for a total of at least 60 ECTS:

	ECTS
AFN 111 Financial Accounting I	7
AFN 211 Managerial Accounting and Costing I	7
AFN 222 Corporate Financial Management	7
AFN 311 Financial Accounting II	6
AFN 312 Managerial Accounting and Costing II	6
AFN 314 Commercial Law	6
AFN 318 Auditing I	6
AFN 319 Taxation I	6
AFN 321 Corporate Finance II	6
AFN 322 Investment and Portfolio Management	6
AFN 411 Financial Statement Analysis	6
AFN 414 Energy Sector Accounting and Finance	6
AFN 415 Contemporary issues in Accounting	6
AFN 416 Business Ethics and Corporate Governance	6
AFN 417 Auditing II	6
AFN 418 Financial Accounting III	6
AFN 419 Taxation II	6

## COURSE DESCRIPTIONS

### Accounting Courses

#### AFN 111 Financial Accounting I (7 ECTS)

The main purpose of this course is to give students basic accounting knowledge in the framework of the business environment. The course examines issues related to the preparation, presentation and analysis of financial statements, in order to take the appropriate investment, credit and management decisions. Specifically, the course covers the accounting cycle, the double entry system, the basic accounting equation, the accruals concept and adjustment entries, and the preparation of financial statements based on the adjusted trial balance. Topics also include accounting methods for inventories, debtors, cash, tangible and intangible assets, short and long-term liabilities and capital. Finally, the course covers the preparation of cash flow statements and key financial ratios. The course relies heavily on Accounting Theory and Accounting Principles.

#### AFN 211 Managerial Accounting and Costing I (7 ECTS)

##### *Prerequisite: AFN 111*

This course, Management Accounting, will teach students to plan, control and evaluate business activities, as well as take the appropriate decisions. Topics addressed include basic cost classification and cost behavior concepts, new manufacturing environment and activity-based costing (ABC), use of cost data in cost-volume-profit analysis, budgets, standard costs and variance analysis, accounting responsibly and using management accounting in decision making.

#### AFN 311 Financial Accounting and costing II (6 ECTS)

##### *Prerequisite: AFN 111*

The course examines the International Financial Reporting Standards (IFRS) adopted by all groups listed on stock exchanges in the European Union. The course focuses on the context in which the standards are developed, their application and analysis for decision-making purposes. Specific topics discussed include: the conceptual framework, accounting treatment of intangible and tangible assets, impairments and revaluations of assets, assets held for sale and discontinued operations, leases, revenue recognition, inventories, construction contracts, cash flow preparation, basic earnings per share, and accounting treatment of current taxation. Students will also learn about the latest developments in the area of Financial Accounting and implement the Standards through case studies.

#### AFN 312 Managerial Accounting and Costing II (6 ECTS)

##### *Prerequisite: AFN 211*

The course provides a general overview of the strategic planning process and the need for a management planning and control system to be tailored to the individual organization. Emphasis is placed on changes in the managerial field that influence decision making. Topics include: cost allocation procedures and their usefulness in decision making, measuring performance, analysis of information for short-and long-term decision making, activity-based costing, just-in-time.

#### AFN 314 Commercial Law (6 ECTS)

The course examines the Cyprus legal system, as this has developed in the framework of European legislation, and look at how it affects the modern business environment. It analyzes legal issues commonly encountered while running a business. Topics covered include contracts, offenses (torts), property law, labour law and corporate law (commercial law documents, company incorporation, bankruptcy, limited companies, corporate governance and legislation against money laundering).

#### AFN 318 Auditing I (6 ECTS)

##### *Prerequisite: AFN 111*

This introductory course examines the International Standards on Auditing (ISAs). The adoption of ISAs is required for all Cyprus companies and all groups listed on stock exchanges in the European Union. The main purpose



of this course is to teach students about the nature of audit work, through reference to the detailed rules governing the profession such as: assessment of audit risk and planning the audit, collection of audit evidence with substantive and analytical procedures, auditor reports, internal control system (evaluation and review). The course emphasizes ethical issues related to the auditing profession.

#### **AFN 319 Taxation I (6 ECTS)**

**Prerequisite:** AFN 111

This course introduces students to basic tax concepts, using the UK tax system as the main example. The course examines the key differences between financial reporting and taxation, international transactions, value added tax, corporate and personal taxation.

#### **AFN 411 Financial Statement Analysis (6 ECTS)**

**Prerequisite:** AFN 111

The recent international financial crisis and the Eurozone crisis (e.g. Cyprus, Greece, Ireland, Spain, Portugal, Italy) have led many organizations to financial distress. Within this rapidly changing economic environment, there is a greater need for executives, analysts, bankers, portfolio managers and investors, who are properly prepared and able to make the right decisions for value creation. The main objective of this course is to assist the above stakeholders in achieving their strategic goals. Specifically, emphasis is placed on: (i) basic financial analysis, including ratios, trend and common size analysis; (ii) forecasts and firm valuation; (iii) the quality of financial information and analysis of business strategy (PESTEL and SWOT); (iv) practical applications of risk management, credit analysis, bankruptcy forecasts (Logistic regression models, Altman Z-score), the role of credit rating agencies and derivatives, such as CDOs, CDS; (v) practical applications in banking, such as capital adequacy and BASEL II, III; (vi) practical applications for analysis of capital markets, corporate governance, mergers & acquisitions and; (vii) international financial analysis and other current capital market issues.

#### **AFN 414 Energy Sector Accounting and Finance (6 ECTS)**

**Prerequisite:** AFN 111 and AFN 222

This course is an introduction to oil and gas accounting, with emphasis on accounting for costs incurred in the acquisition, exploration, development and production of oil and natural gas. It is designed to give students an understanding of the accounting standards and practice, that exist in the energy sector, and the skill to evaluate financial performance in this industry. The students will familiarize themselves with measurement of liquidity, capital structure, operating performance and asset utilization. Topics will also cover valuation issues, computation of appropriate returns benchmarks, accounting under joint arrangements, required disclosures for oil and gas activities, and analysis of relevant companies' financial statements. At the conclusion of the course, students should be familiar with the basic characteristics and differences between the downstream and the

upstream sectors and their activities, and the main ethical issues in oil and gas accounting practices.

#### **AFN 415 Contemporary Issues in Accounting (6 ECTS)**

**Prerequisite:** BPA 346

The course analyzes contemporary research topics in depth and in relation to financial reporting. Emphasis is placed on related literature from international academic journals.

#### **AFN 416 Business Ethics and Corporate Governance (6 ECTS)**

**Prerequisites:** AFN 111 and AFN 222

The course provides an overview of ethical conduct within a business, with particular emphasis on information dissemination and finance. The first part focuses on the scope, importance and need for ethical behavior in decision making. The second part focuses on corporate governance, the importance of ensuring basic ethical corporate values, the various types and benefits of good corporate governance. The course examines case studies, where ethical dilemmas exist or decisions taken violate corporate values. Particular emphasis is placed on the moral aspect of various decisions and corporate governance of all stakeholders.

#### **AFN 417 Auditing II (6 ECTS)**

**Prerequisite:** AFN 318

The main objective of this course is to continue the in-depth study of the nature and objectives of auditing, with particular emphasis on their practical implications, through case studies and articles. Specifically, the issues addressed include: developments in auditing at a European level, professional ethical issues, external audit and completion stage, auditors' and other reports, money laundering, internal control system, and the "expectation gap." The course relies extensively on literature from international journals, problem solving and analysis of relevant international corporate case studies.

#### **AFN 418 Financial Accounting III (6 ECTS)**

**Prerequisite:** AFN 311

The main objective of this course is to supplement the material learned in AFN 311 and to provide students with an in-depth, comprehensive understanding of financial reporting issues, as they apply to financial statements prepared in accordance with International Financial Reporting Standards (IFRS). Emphasis is placed on preparing consolidated financial statements (whether arising from acquisition / disposal of subsidiaries and associates, or joint arrangements). The course also covers the accounting treatment of financial instruments, deferred taxation and earnings per share (diluted earnings per share).

#### **AFN 419 Taxation II (6 ECTS)**

**Prerequisite:** AFN 319

The aim of this course is to examine the most important aspects of the Cyprus tax system (which is mainly based on the UK tax system). Specifically, the course focuses on an

analysis of income sources, taxable income and the various exemptions available, with the purpose of calculating taxation for individuals and legal entities (companies, partnerships). The course also examines defense contribution, capital gains tax and assessment and collection of taxes.

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**AFN 492 Thesis in Accounting (6 ECTS)**

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Research in theoretical issues or practical problems related to Accounting.

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**AFN 493 Thesis in Accounting (6 ECTS)**

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Research in theoretical issues or practical problems related to Accounting.

## Courses in Finance

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**AFN 222 Corporate Financial Management (7 ECTS)**

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The course covers: application of the net present value (NPV) to capital budgeting investments, the risk-return trade off, portfolio management, market efficiency, cost of capital, financial leverage, optimal capital structure, dividend policy, and basic valuation methods of securities.

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**AFN 321 Corporate Finance II (6 ECTS)**

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***Prerequisite: AFN 222***

The course provides a deeper insight into financial theory, with particular emphasis on investment valuation, capital budgeting and valuation of various financial securities (e.g. ordinary shares, different types of debt, options and rights). The course also provides a more advanced study of dividend and debt policy, and covers more advanced topics, such as interactions between investment and financing decisions, hedging of financial risk, leasing, mergers and acquisitions, and international finance.

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**AFN 322 Investment and Portfolio Management (6 ECTS)**

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***Prerequisite: AFN 222***

The course examines the mechanics of the securities markets and provides a sound understanding of the principles of analysis and investment valuation. Subjects covered include: securities valuation methods (e.g. bonds, stocks, options, futures), determination of suitability of securities for their inclusion in investment portfolios, effective ways to best trade. Emphasis is placed on analyzing securities (i.e. determining whether an individual security is correctly valued in the market), and portfolio management (i.e. combining securities into a portfolio, portfolio monitoring, and evaluation of its performance).

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**AFN 323 Modern Capital Budgeting (6 ECTS)**

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***Prerequisite: AFN 222***

The course combines valuation theory with uncertainty and methods for capital investment decisions. Traditional capital budgeting does not adequately address risk and uncertainty issues (pricing of capital goods, exchange rates, etc.). Modern valuation theories provide the tools for developing methods and models to assess mutually

exclusive investment funds, evaluation of investment and research projects. Students will make extensive use of computers and software (spreadsheet work) for practical applications of analytical methods.

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**AFN 324 Bank Financial Management (6 ECTS)**

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***Prerequisite: AFN 222***

Bank financial management represents the central activity of commercial banks, while the continually changing environment - intensified competition, deregulation, globalization of markets, new financial instruments - requires banks to revise the focus of their financial management. The course presents the financial concepts, strategies and techniques, that help banks achieve success in this financial environment. After reviewing today's banking environment - banking structure, problems and conditions - the course concentrates on measuring and managing various types of risk faced by financial institutions, such as interest rate, credit, foreign exchange, and liquidity. The course also discusses measures and evaluation of bank performance, basic financial instruments and techniques, bank asset/liability management, new financial strategies, and integrative bank management decisions.

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**AFN 325 Options, Futures and Risk Management (6 ECTS)**

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***Prerequisite: AFN 222***

The course examines the nature, characteristics, and markets for options and futures. It analyses the factors that determine their value and studies basic valuation techniques and their application to the financial activities of the business and investment decisions. It also studies their specific role in hedging or reducing financial risk (security portfolio).

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**AFN 421 Financial Policy (6 ECTS)**

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***Prerequisites: AFN 321 and AFN 322***

The course analyses the financial aspects related to the definition and implementation of a company's financial policy (e.g. it examines inter-relationship between profitability and growth, dividend policy, debt policy, competitive/strategic positioning, etc.). It uses case studies to apply concepts and techniques learned in previous business courses to the analysis of real life situations and practical problems. It is intended as a capstone course to be taken after all other concentration courses, providing the opportunity for reviewing, integrating, and operationalizing acquired skills in an applied context.

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**AFN 422 Public Finance (6 ECTS)**

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***Prerequisite: AFN 222***

The course examines the financial policies and problems facing government institutions and public agencies, such as resource allocation, transfer pricing, and public debt policy (with reference to education, social services, natural resources and the environment).

**AFN 423 International Financial Management (6 ECTS)**

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**Prerequisite: AFN 322**

This course studies financial operations in the context of the international environment, with particular attention to the unique opportunities, constraints and risks involved in global operations. These include fluctuating exchange rates, imperfect or distinctive international money, capital and exchange markets, differing accounting, tax and subsidy regimes, political or country risk, and the evaluation and financing of international investment opportunities. This course is useful for managers in organizations active in international trade (exports or imports), subject to foreign competition, having or contemplating direct investment in sales, service or production affiliates overseas.

**AFN 425 Contemporary Issues in Finance (6 ECTS)**

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**Prerequisite: AFN 222**

The course introduces advanced, current issues in Finance. It offers the opportunity to small groups of students to work on selected finance topics of their interest and to develop their ability to follow relevant literature and to carry out independent work. The contents may change from year to year, depending on the faculty and students' interests.

**AFN 426 Insurance and Risk Management (6 ECTS)**

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**Prerequisite: AFN 222**

The course covers the identification, assessment and management of financial and other insurance risks. The economics of insurance demand and supply provide the rationale for insurance and risk management products. The course concentrates on the assessment of credit risk, default risk, and liquidity risk. There is also a qualitative overview of insurance company activities, as well as the general regulatory framework of the insurance industry in both Europe and the USA.

**AFN 495 Thesis in Finance (6 ECTS)**

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Research in theoretical issues or practical problems related to Finance.

**AFN 496 Thesis in Finance (6 ECTS)**

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Research in theoretical issues or practical problems related to Finance.



**TABLE A: INDICATIVE ACADEMIC PROGRAMME FOR THE FIRST AND SECOND YEAR OF STUDIES****1st YEAR****1st Semester**

ECO 121 Principles of Macroeconomics  
MAS 001 Mathematics I  
LAN 100 General Advanced English  
BPA 131 Principles and Practices of Management  
MAS 061 or Free Elective Course

**2nd Semester**

ECO 111 Principles of Microeconomics  
MAS 002 Mathematics II  
LAN 101 Academic English  
AFN 111 Principles of Financial Accounting  
CS 032 Programming Methods for Problem Solving

**2nd YEAR****3rd Semester**

MAS 061 Statistical Analysis I or Free Elective Course  
LAN 201 Business Communication for Management English  
AFN 211 Managerial Accounting and Costing  
BPA 241 Introduction to Operations Management  
BPA 251 Principles of Marketing

**4th Semester**

AFN 222 Corporate Financial Management  
BPA 231 Organizational Behavior  
MAS 062 Statistical Analysis II  
BPA 244 Business Information Technology  
Free Elective Course

**TABLE B: INDICATIVE ACADEMIC PROGRAMME FOR THE THIRD AND FOURTH YEAR FOR STUDENTS SPECIALIZING IN ACCOUNTING****3rd YEAR****5th Semester**

AFN 311 Financial Accounting II  
AFN 312 Management Accounting and Costing II  
AFN 314 Commercial Law<sup>^</sup>  
AFN 318 Auditing I  
Up to 2 Elective Courses<sup>\*\*</sup>

**6th Semester**

AFN 314 Commercial Law<sup>^</sup>  
AFN 417 Auditing II<sup>\*</sup>  
AFN 418 Financial Accounting III<sup>\*</sup>  
BPA 346 Quantitative Methods II  
Up to 2 Elective Courses<sup>\*\*</sup>

**4th YEAR****7th Semester**

AFN 319 Taxation I  
AFN 411 Financial Statement Analysis  
BPA 435 Strategic Management  
Up to 2 Elective Courses<sup>\*\*</sup>

**8th Semester**

AFN 416 Business Ethics and Corporate Governance <sup>\*\*</sup>  
AFN 419 Taxation II<sup>\*</sup>  
Up to 3 Elective Courses <sup>\*\*</sup>

**Notes:**

<sup>\*</sup> Elective for Business Depth in Accounting. Exemption from ACA and ACCA.

<sup>\*\*</sup> Other Depth Courses, Breadth Courses, Free Electives or Thesis.

<sup>^</sup> AFN 314 Cyprus Commercial Law is offered in both semesters.

**TABLE C: RECOMMENDED PROGRAMME FOR THIRD AND FOURTH YEAR  
FOR STUDENTS SPECIALIZING IN FINANCE**

**3rd YEAR**

**5th Semester**

AFN 321 Corporate Finance II

AFN 325 Options, Futures and Risk Management

Up to 3 Elective Courses \*

**6th Semester**

AFN 323 Modern Capital Budgeting

AFN 322 Investment and Portfolio Management

PBA 346 Quantitative Methods in Business II

Up to 2 Elective Courses \*

**4th YEAR**

**7th Semester**

PBA 435 Strategic Management

Up to 4 Elective Courses \*

**8th Semester**

AFN 421 Financial Policy

AFN 416 Business Ethics and Corporate Governance

Up to 3 Elective Courses \*

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\* Other Depth Courses, Breadth Courses, Free Electives or Thesis.

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Faculty of Economics and Management

## ● ● ● ● Department of Business and Public Administration

[www.ucy.ac.cy/bpa/en](http://www.ucy.ac.cy/bpa/en)

### **CHAIRPERSON**

Andreas Soteriou

### **VICE-CHAIRPERSON**

George Kassinis

### **PROFESSORS**

Leonidas C. Leonidou

George Hadjinicolas

Andreas Soteriou

Haridimos Tsoukas

Hercules Vladimirov

### **ASSOCIATE PROFESSORS**

George Kassinis

Eleni Stavrou-Costea

Marios Theodosiou

### **ASSISTANT PROFESSORS**

Panayiotis Markopoulos

Nicos Nicolaou

Alexia Panayiotou

### **LECTURERS**

Christiana Ierodiakonou

Christos Nicolaides

### **PROFESSOR EMERITOUS**

Christakis Charalambous

## INTRODUCTION

The modern business environment is undergoing a major transformation: markets are becoming global, organizations are merging, and regulatory barriers are falling. Information technology creates a virtual business environment, where services are rendered, transactions take place and deals are concluded more efficiently. Recently, we have witnessed the transformation of industrialised nations from manufacturers of goods to providers of services. Many advanced developing countries are closely following this lead, while other developing countries are gradually filling the gap in the manufacturing processes.

The only constant in today's environment is change itself. The astute managers, who anticipate, comprehend, adapt and even proact in a timely fashion in this dynamic environment, will lead their enterprises to success. Those, who are unable to cope with rapid change, face real threats to the survival of their operations. The adage "lead, follow or get out of the way" becomes particularly relevant for new managers in this new era.

The Department of Business and Public Administration (BPA) aims at training managers, who will lead their enterprises through these challenging times. It offers an integrated programme of studies, that emphasises both breadth of understanding of the business environment, as well as depth in several functional areas. Based on the latest curricula of prominent European and North American academic institutions, it integrates internationally established management principles with sensitivity to the realities and priorities of the local and regional realities. The use of powerful analytical tools and the latest information technology for the support of the tactical and strategic goals of an enterprise play a central role in this programme of studies.

## EDUCATIONAL MISSION

The Department prepares future executives in business and public administration, by cultivating three key qualities: analytical aptitude, critical thinking and moral standing. More specifically, the programme of study aims at:

- A) Familiarizing students with modern methods of information analysis, by introducing them to the most recent problem solving tools and developing their strategic skills.
- B) Cultivating their critical thinking, so that they will be able to effectively and efficiently manage human resources in modern organizations.
- C) Enhancing the values of co-operation, leadership and accountability as well as all qualities essential to effective management.

## OBJECTIVES OF THE DEPARTMENT

The Department's aims are to provide local and regional leadership in all areas of business and public administration, and to achieve international recognition as a centre of business research excellence.

This aim is achieved by a systematic effort focused on:

- The education of tomorrow's business leaders in Cyprus and the region.
- The pursuit of research of international impact.
- The establishment of professional development courses and collaborative projects with local and regional industry.

## GENERAL INFORMATION

The Department of Business and Public Administration offers three undergraduate programmes: Management, Operations Management, and Marketing. The degrees emphasize both breadth of education across all functional areas of the business enterprise and substantive depth in one of the above areas.

In collaboration with the Department of Accounting and Finance, the Department offers an MBA postgraduate course and a Ph.D. programme in Business Administration. On September 2018, the Department is going to offer a new master programme in Human Resource Management. The new master programme will be offered in the beginning in Greek and at a later stage in English.

The University of Cyprus follows the European Credit Transfer and Accumulation System (ECTS). To graduate with a BSc degree, students must complete all courses successfully while acquiring a minimum of 240 ECTS. Each student is responsible for arranging his/her programme of study and meeting the specific degree requirements, including courses in a foreign language(s) (10 ECTS) and a number of electives from other departments of the University (20 ECTS).

Most courses required in the first four semesters are the same for all students in the Department. They involve introductory courses in various disciplines and courses in business fundamentals. These courses are designed to provide a general education and the necessary background for further in-depth study in one of the three areas of concentration, namely Management, Operations Management and Marketing. The development of basic analytical, quantitative and computing skills is a primary objective of the curriculum in the first four semesters. Courses in Mathematics, Statistics, Informatics, and Economics are integral parts of the curriculum. By the end of the fourth semester, students will have developed a broad understanding of business education and will be able to make an informed choice of the area of specialization that best suits their interests and career objectives.

The programme of studies in the last four semesters emphasizes both breadth of knowledge across all functional areas of a business, as well as in-depth study in a particular area of concentration. These higher-level courses allow students to deepen their knowledge in their area of choice. Students are also encouraged to broaden their knowledge, by auditing courses in other areas of concentration, or choosing their electives in other departments. Many students, especially those planning to continue their education at the Master or Ph.D. level, choose the option of writing a Senior Thesis. The Final Thesis Project typically involves sponsorship by local industries, and

concerns the application of modern business methodologies to practical problems facing the sponsoring institutions.

Attendance is mandatory for all programmes of study. This applies to all elements of the course, that is, lectures, tutorials, workshops, assignments, exams, etc. Class participation is also required for all courses. Students must familiarize themselves with University policies, and can find all the relevant information on the Academic Affairs and Student Welfare Services webpage:

[www.ucy.ac.cy/fmweb/en](http://www.ucy.ac.cy/fmweb/en)

Graduates of the Department will be able to make immediate and substantial contributions to their place of employment, and will be well positioned to eventually move into top managerial and leadership roles. Graduates of the Department will also have the fundamental knowledge to continue onto further education and pursue higher degrees (MBA, M.Sc. or Ph.D.), either at the University of Cyprus or other universities/academic institutions worldwide.

### Elective Courses

Through their electives, students will acquire a broad liberal arts education that will enhance their knowledge and skills acquired in the Department. Elective Courses must be chosen from at least three different Faculties of the University of Cyprus, and students may also take electives from their own Faculty, as long as the chosen courses are not from their own Department. Courses in the student's main area of concentration cannot be considered as electives. The Department encourages students to select courses that will broaden their knowledge and skills, as today's international business environment is characterized by a wide diversity.

### Senior Thesis

During their fourth year of study, students may choose either to write a thesis or continue with coursework (one Breadth and one Depth course). To qualify for the thesis option, the student must have a GPA higher than 7.0 or must receive approval from the potential thesis supervisor and the Departmental Board. The subject of the thesis is chosen by the student, in consultation with the thesis supervisor, who will be monitoring the student's academic progress.

The first stage of the thesis, which represents 6 of the 12 ECTS, requires the submission of a research proposal describing the topic to be studied, a general bibliography, and the proposed methodology. The research topic must be submitted at the beginning of the first semester of the fourth year.

Once the research topic is approved by the thesis advisor, the student must submit the thesis during the course of the second semester of the fourth year. The thesis must include a detailed written essay with reference to theories, methods of problem solving and the findings of their research. This material represents the remaining 6 ECTS. The Department has the right to ask the student to present their thesis to a

committee comprised of academic personnel from the Department, external academics and other individuals.

For the thesis, students may choose either a theoretical issue or a more practical and specific problem. Students, who choose the practical project option, may work individually or in groups of no more than three people. For those students who work in groups, the contribution of each member must be presented clearly.

## PROFESSIONAL DEVELOPMENT AND LOCAL INDUSTRY COLLABORATIONS

The Department has an active collaboration with local organizations that includes both an educational and a research component. On the educational front, we organize professional development seminars and short courses aimed at entry, middle, and top-level managers. On the research front, we pursue joint projects focused on problems of immediate concern to large segments of local industry.

## STUDENT EXCHANGE PROGRAMMES

The Department has established bilateral student and faculty exchange agreements with several European universities, in the context of the Erasmus Programme and other exchange programmes with an international focus. We have hosted students and faculty from a number of European countries, while many of our students and faculty have had academic exchanges at universities in Europe, the USA and elsewhere. Furthermore, we are continually expanding our network of collaborations with academic institutions in other countries, as we aim at providing rich intercultural and international experiences within an academic framework, to both our faculty and students. This serves to enhance the research and professional capabilities of our two major stakeholders, the University and the community at large.

## PROGRAMME OF STUDIES

The undergraduate programme of studies of the Department integrates broad knowledge of the business and public administration, with in-depth knowledge in an area of concentration. BSc degrees in the following concentrations are currently offered:

- Management
- Operations Management
- Marketing

### Management

The concentration in Management prepares students for managerial and leadership positions in a diverse range of organizations in the private, public and non-profit sectors, where there is a continual need for change, adjustment and development. The major objective of the degree in Management is to help students develop the basic skills, required to deal with the challenges and opportunities presented to them in their managerial work. The degree with a concentration in Management combines internationally accepted principles with the particularities



of the Cypriot business sector and those of the wider geographical area. The coursework is competitive and comparable to that of top-ranking universities both in Europe and North America.

### Operations Management

The concentration in Operations Management focuses on giving students the fundamental knowledge and skills to develop and apply analytical and software tools that will support operational decisions. The growing complexity and internationalization of business activities, the ever more intense competition, and the rapid advances in information technology have created a strong need for developing and maintaining effective decision support systems, based on modern analytical methods. These methods are derived from operational research, statistics, mathematics, financial, econometrics and other relevant fields and mainly apply to the use of information management technology. There is a growing demand for managers to combine a good understanding of operational activities and challenges with modern means of decision making.

The curriculum in Operations Management aims at fostering this combination of knowledge and skills. Graduates with a specialization in Operations Management will be in a position to conduct business operations in various areas, such as industry, logistics and supply, finance and banking, telecommunications and transport, as well as many others.

### Marketing

The Marketing major has two main objectives: first, to prepare students for a variety of careers in different fields of Marketing, as well as in general management positions in private and public organizations and, second, to provide students with the essential skills and knowledge that will enable them to continue their studies at a postgraduate level.

The Marketing major emphasizes the development of knowledge, skills, and analytical techniques aimed at identification, prediction, and understanding of needs, preferences, and purchasing behavior of individual consumers, households, and organizations. Also emphasized are the design and implementation of effective strategic marketing plans - plans that enable a company to achieve its marketing and business objectives, by optimizing resources and capabilities and exploiting emerging market opportunities.

The Marketing curriculum enables students to develop their creativity and critical judgment for effectively solving marketing and business problems. Students also learn to work systematically, in order to carry out large-scale market research projects and design strategic marketing plans, advertising plans, electronic marketing plans, international marketing plans, and sales management strategies and programs. In their research projects, students have the opportunity to cooperate with local firms and examine how marketing theories, concepts and approaches are actually implemented in practice. Through this process, students

become familiar with the local business environment and prevailing market conditions across various industries.

## MINOR PROGRAMMES

### MINOR IN BUSINESS ADMINISTRATION

The Department of Business and Public Administration and the Department of Accounting and Finance offer a minor in Business Administration to a limited number of students in other departments. The programme covers the fundamental principles and concepts of Business Administration and Public Management. Students should take at least 42 ECTS in Compulsory Courses and 18 ECTS in Elective Courses.

### MINOR IN ENTREPRENEURSHIP

The Department also, offers a minor in Entrepreneurship to a limited number of students from other departments but is mostly targeted to students from the Faculty of Pure and Applied Sciences and the Faculty of Engineering. The minor in Entrepreneurship gives students the opportunity to enhance their knowledge relative to technological evolution, business evaluation of technological and other innovations and help them acquire the necessary knowledge which allow them to be effectively engaged in the business field (i.e. the creation of a new business) in various economic sectors. Students must cover at least 60 ECTS (10 courses), five (5) of each are compulsory.

The requirements for admission to the two minor programmes are indicated in the Regulations and Rules of the University of Cyprus.

## COURSE DESCRIPTIONS

### Management

#### **BPA 131 Principles and Practices of Management (6 ECTS)**

The purpose of the course is to provide an understanding of the nature and role of management in an organization, as well as to highlight the pressures imposed on management by its external environment. The course is structured around the key management functions, namely planning, organizing, staffing, leading and controlling. It also provides an overview of the basic business functional areas, namely accounting, marketing, finance, production and personnel.

#### **BPA 231 Organizational Behavior (6 ECTS)**

The course examines the impact that individuals, groups, and structures have on organizational behavior. The following topics are covered: individual behavior, perceptions and individual decision making, motivation theories, group behavior and decision making, leadership, power and conflict, organization structure and design, organizational culture, and organizational change and development.

### **BPA 235 Introduction to Critical Thinking for Management Students (6 ECTS)**

The aim of the course is to help students develop critical thinking. Critical thinking is a skill that, like all skills, needs to be learned and cultivated. In the course, we will deal with the structure, process and outcomes of critical thinking, focusing especially on organizations and public policy. In particular, we will discuss what makes thinking critical and at the same time focus on the logic of reasoning, the process of conceptual analysis, and practical reasoning. We will discuss issues related to evidence, the logical structure of arguments, values and ethics in argumentation, as well as hermeneutics. We will also discuss the social context within which critical thinking takes place, focusing especially on power relations and authority, the relationship between emotions and thinking, and the genres-cum-discourses through which critical thinking takes place. Finally, we will discuss ways through which critical thinking may be weakened, as well as ways through which it may be strengthened, especially in the context of organizations. The course will draw on literature from philosophy, psychology, and management and public policy. Throughout the course, examples from public life will be examined.

### **BPA 332 Business Ethics (6 ECTS)**

*Prerequisites: BPA 131 and BPA 231*

The course provides a general overview of ethical performance in business. Students will learn to examine standards and priorities through the lens of ethics and moral reasoning, in order to achieve a balance between business and economic responsibility on one hand, and social and public responsibility on the other. Topics include: moral theories in normative ethics, ways to promote and institutionalize ethical behavior in organizations, and differences in ethical standards in different countries. The class will discuss many cases and problems illustrating ethical dilemmas.

### **BPA 334 Human Resource Management (6 ECTS)**

*Prerequisites: BPA 131 and BPA 231*

The objective of the course is to introduce students to the theory and practice of Human Resource Management (HRM). Issues such as recruitment, selection, performance appraisal, planning, compensation and benefits, training and development, as well as employee relations will be analysed in the course. In addition, students will have the opportunity to analyse a variety of practical situations, wherein the theories underlying the practice of HRM are applied.

### **BPA 335 Cross-cultural Management (6 ECTS)**

*Prerequisites: BPA 131 and BPA 231*

The course introduces students to the role of culture in Management. It focuses on the meaning and significance of culture, studies the role of cultural values and their influence on organizational behaviour and explains the significance of cross-cultural similarities and differences in

management. The course also emphasizes cross-cultural communication and the role of culture in decision making, leadership and human resource management.

### **BPA 336 Business Communication (6 ECTS)**

The course aims to help students understand and appreciate the importance and complexity entailed in communicating effectively at the workplace. The students should be able to recognize and practise basic oral communication skills, describe and explain the basic communication model and the decisions it involves in order to communicate effectively, explain and apply the basic steps and principles in developing business messages etc.

### **BPA 337 Employment Relations (6 ECTS)**

The course examines the procedures involved in employee relations and focuses on the application of these procedures in the Cypriot economic scene and in comparison with that of the European Union. It covers subjects such as employee-employer relations, unionization, employer associations, collective bargaining, social responsibility and participation, employment democracy in the international economic scene, and a historical overview of employment relations in Cyprus.

### **BPA 338 Qualitative Research Methods for Business (6 ECTS)**

The course introduces students to the fundamental elements of a qualitative approach to research. It aims at teaching students the principles, aims and methods of conducting qualitative research, and giving them an understanding of the uses of qualitative versus quantitative data. The main issues covered include qualitative research principles, qualitative research methods (observation and ethnography, interviews, content and narrative analysis, conversation and discourse analysis), qualitative research design (sampling and recruitment), credibility of qualitative research (reliability, validity, generalization), qualitative research ethics and challenges, and writing-up qualitative research results.

### **BPA 362 Advanced Organizational Behaviour (6 ECTS)**

*Prerequisite: BPA 231*

Individual behaviour and group processes are studied in depth. Topics covered include decision making, basic individual psychology, group formation, and problems in the development and functioning of teams, as well as ways to prevent typical group problems.

### **BPA 430 Current Issues in Management (6 ECTS)**

*Prerequisite: BPA 231*

The field of management covers a wide range of topics, both theoretical and applied. At the same time, it is linked to key areas of social sciences such as Sociology, Psychology and Economics. This diversity of management is reflected in the research interests of the department's academic staff and hence in this lesson, which generally aims to bring students and academics with these interests.

The course aims to expose students to various issues/phenomena of management that affect employees and the subsequent challenges/opportunities they can create for modern organizations. It also aims to raise concerns about the causes and effects of complex/multifaceted management problems presented in the modern organizational environment and the prospects for alternative methods of coping with them.

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**BPA 431 Gender, Work and Organizations (6 ECTS)**

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The course examines the relationship of gender, work, and organizations. It explores the lives of men and women in organizations, the different career “choices” as well as the resulting trajectories in promotion and pay. It discusses the role of education and mass media and uses various means through which to study the production of gender identities in the workplace. In addition, the course examines organizational issues such as leadership, human resources, negotiations, communication, and culture which are often mistakenly treated as “universal” but which are clearly not, when the gender lens is applied.

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**BPA 432 Innovation Management (6 ECTS)**

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*Prerequisites: BPA 131 and BPA 231*

The management of innovation is one of the most important and challenging aspects of modern business. Innovation is the fundamental driver of competitiveness and plays a major part in improving the quality of life. Even though technological innovation is uncertain and risky, it can still be managed. Therefore, it is essential that students understand the strategies, tools and techniques for managing innovation. The course aims at giving students an understanding of the main issues in innovation management, an awareness of the key features of success, and an appreciation of the relevant skills needed to manage innovation at both strategic and operational levels. The topics covered include product and process innovations, radical and incremental innovations, protecting intellectual property, appropriability, diffusion of innovations, sources of innovations, etc.

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**BPA 434 Entrepreneurship (6 ECTS)**

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*Prerequisites: BPA 131 and BPA 231*

The purpose of the course is to explore the many dimensions of new venture creation and growth. While most classroom examples will be drawn from new venture formation, we will also examine cases related to entrepreneurship, social and non-profit entrepreneurship. The class sessions will focus on conceptualizing, developing, and managing successful new ventures, ideas or products, with the goal of creating a business plan.

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**BPA 435 Strategic Management (7 ECTS)**

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*Prerequisites: BPA 131 and BPA 231*

The course addresses issues that are of key importance to a company such as vision, mission, and objectives. Emphasis is placed on competitive analysis, the nature of competitive advantage, the structures and control of

management processes, diversification strategies, culture and leadership.

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**BPA 436 Leadership (6 ECTS)**

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*Prerequisites: BPA 131 and BPA 231*

The course introduces students to the important topic of leadership, from the perspective that leadership is dynamic and not static. Major theories of leadership are analysed and the relationships between leader, followers and situations are explored, as is the process of leadership. Emphasis is placed on the role of gender and culture in leadership, the characteristics and values of leaders, charismatic leadership and follower roles.

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**BPA 438 International Business (6 ECTS)**

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The course introduces students to various issues in international business. It takes the perspective of firms active in a global environment. It also helps students gain awareness of the major challenges management faces in today's competitive global marketplace. These challenges are approached at multiple levels such as the firm-level, industry dynamics, country and regional scope, as well as the perspective of a global economy.

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**BPA 439 Management of Public Organizations (6 ECTS)**

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*Prerequisites: BPA 131 and BPA 231*

The course introduces students to the important concepts and tools for managing public organizations. The course highlights the similarities and differences between business (private) and public organizations and includes material on strategic analysis, performance measurement and management, organizational structure and culture, operations and process management, and organizational learning and change.

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**BPA 460 Advanced Topics in Strategy (6 ECTS)**

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In order to develop and apply a successful strategy, an organization must be able to face and critically analyse four different issues: a) the organization's boundaries: what must an organization do, what size should it be, and in what business sectors should it enter? b) market and competition analysis: what is the nature of the markets in which the organization is competing and what is the nature of the organization in these markets? c) market position: how should an organization place itself, in order to gain competitive advantage over other organizations, what is the basis of its competitive advantage, and how should it adapt and change in the course time? d) the internal environment of the organization: how should an organization build its internal structure? These questions will be answered by examining economic theory, economic sociology, strategic theory and organizational studies.

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**BPA 461 People and Organizations (6 ECTS)**

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*Prerequisite: BPA 231*

The course covers a range of topics, including the concept of the social self, perceiving group and individuals, attribution theory, and behavior within organizations.



Special emphasis is placed on issues of power and authority, obedience and conformity, and how stereotypes and prejudice affect groups and organisations negatively.

#### **BPA 463 Negotiations and Conflict Management (6 ECTS)**

*Prerequisites: BPA 131 and BPA 231*

Negotiations are an integral part of our professional and personal lives. Therefore, business executives should have highly developed negotiation skills and good knowledge of the procedures necessary for successful negotiations. By acquiring these skills, students should be able to handle business situations with individuals or teams, as well as with suppliers and customers. The course examines the theory, the procedures and the practical aspects of negotiations, especially in the business environment. It focuses especially on the different types of negotiation, the strategy of negotiations, the correct communication between parties, sources of power in negotiations, ethics and multiparty negotiations. It also covers conflict management during the negotiation process.

#### **BPA 464 Energy – Strategy and Operations**

Energy – where to get it from, how to use it efficiently and responsibly – is arguably one of the most critical economic, environmental and social challenges facing the globe today. The course will introduce students to the basic concepts and methods of analysis used across the social sciences (with primary emphasis on economics and business), and help them to understand the production, distribution and consumption of energy. In other words, we will examine the full ‘life cycle’, or ‘cradle to grave to cradle again’ of energy (from the stage of raw materials, or inputs, to generation, conversion, distribution, consumption, recycling, and managing waste and impacts). Such methods, tools and perspectives will help students understand, critique, and ultimately influence the management of technical, economic, and policy choices regarding the options for energy generation and use. We will focus equally on the technical, socioeconomic, political, and environmental impacts of energy. The course will include examples of cost-benefit, organizational, and institutional analyses of energy production, transformation, and use. It will also use material balance, energy balance and life cycle assessment tools to examine the environmental impacts of energy technologies. Examples will be drawn from various countries and settings. The second part of the course will provide students with insights on the main trends and characteristics of the energy business. Building on knowledge gained in the first two parts of the course, we will further discuss the value chains of specific energy companies (using those involved in the Cyprus energy market as examples), and consider the energy market outlook, with a particular emphasis on natural gas and the latter’s impact on the development of the energy sector in Cyprus and the Eastern Mediterranean.

#### **BPA 465 Organizations, Environment, and Sustainability (6 ECTS)**

The attention that the environment is receiving today is impossible to miss. In the course, we will introduce and

critically analyse the challenges and opportunities organizations face, as a result of the environmental impacts of their operations. Managers need to understand the factors that drive business value, when dealing with these challenges. In the course, we will study and evaluate how firms respond to these challenges. We will also explore how firms strategically shape the regulatory and competitive context in which they operate. Students will learn how to a) apply conceptual frameworks to evaluate environmental and social performance (triple bottom line), b) assess how markets respond to environmental and social concerns, and c) help their organizations develop a competitive advantage, in an era of higher environmental and social expectations.

#### **BPA 467 Current Issues in Public Administration (6 ECTS)**

Public administrations in modern states are now faced with a series of major challenges that they are called upon to give urgent and decisive responses. Changes in the economic and social environment, environmental changes, the need to protect the environment and the advancement of technological development are just a few of these issues. In particular, Cyprus, in addition to the more general issues to be addressed, should find answers in a timely manner on a number of specific issues that are the result of events and developments that directly affect it, such as: the economic crisis, the discovery of hydrocarbons in Cyprus, the prospect of resolving the Cyprus problem, developments in labor relations, the need to modernize and reorganize the public service, etc.

#### **BPA 468 Entrepreneurship and Innovation (7 ECTS)**

*Prerequisites: BPA 131 or approval of the instructor and BPA 231*

The course discusses the theoretical and practical underpinnings of entrepreneurship and innovation. Topics covered include business plans, venture capital firms, business angles, franchising systems, protection of intellectual property, diffusion of innovation, and sources of innovation.

#### **BPA 469 Creativity and Design Thinking in Organizations (6 ECTS)**

Creativity and innovation are the key drivers of success for many of today’s leading companies. Some of the most dramatic gains in shareholder value over the last few years (e.g. Google, Apple) are due to a culture that fuels creativity. Indeed, a culture of creativity and innovation is commonly recognized as the only sustainable competitive advantage. An important element of a creative culture is the use of breakthrough design thinking. Design represents a powerful alternative to the dominant management approaches of the last few decades and is an important perspective for business leaders to embrace. The course will focus on developing new ways of thinking “outside the box”.

#### **BPA 498 Senior Thesis in Management I (6 ECTS)**

Conducting research on theoretical issues or working on practical problems in the area of Management.

### **BPA 499 Senior Thesis in Management II (6 ECTS)**

Conducting research on theoretical issues or working on practical problems in the area of Management.

## **Operations Management**

### **BPA 241 Introduction to Operations Management (6 ECTS)**

*(Previous Course Title:*

*BPA 241 - Introduction to Management Science)*

The course examines the basic principles of the management of production and operations in manufacturing and service firms. Operations, in general, comprise all activities involved in the actual production of goods and the delivery of services. As such, operations management becomes a key function of the organization, which must ensure that goods and services are created and delivered efficiently and effectively, while balancing a number of conflicting demands. In order for the operations management to function effectively and achieve the objectives of business strategy, it must be carefully and effectively coordinated with other functions, such as marketing, finance, human resources, etc. Students are exposed to a variety of topics, including service and process design in manufacturing and services, process analysis, capacity planning, operations strategy and competitiveness, facility location and layout, managing for quality, supply chain management, inventory management systems, and recent trends in production and operations management.

### **BPA 244 Business Information Technology (7 ECTS)**

The course explains how businesses deploy key information technology assets (hardware, software, networks and data) and demonstrates that information technology has maximum impact, when it is aligned with firm strategy. The course stimulates ideas for disruptive applications of technology that support novel applications and business plans, and offers insight into emerging trends in IT, such as Cloud Computing and Big Data. Real world examples and mini case studies are a centerpiece of the course, and they are drawn from the instructor's own professional experience, as well as from high quality material developed by other professionals and academics. Laboratory sections run in sync with the lectures and help the students develop hands-on experience in creating webpages and blogs, using WordPress tools, performing modeling and data analysis in MS-Excel, and creating simple data-base driven applications in MS-Access.

### **BPA 245 Introduction to Service Management (6 ECTS)**

*(The course is not offered to the students of the Department of Business and Public Administration)*

This introductory course examines the activities and management challenges of service organizations. Topics examined include customer identification, customer contact, strategic role of the information resource, facility location, queuing systems in services, and management of supply and demand. Emphasis is placed on the

design and management of the service delivery system. Methodologies for evaluating the system's performance, which have been successfully applied in schools and banks, are also examined.

### **BPA 341 Operations Management (6 ECTS)**

*Prerequisite: BPA 241*

There is increased awareness of the importance of operations, both in manufacturing and services, in achieving a competitive advantage. The course introduces students to the fundamentals of Operations Management. Topics to be covered include: productivity and competitiveness, product and service design, process selection, facilities layout, design of work systems, aggregate planning, inventory control, materials requirement planning, Just-In-Time systems, scheduling. Current topics such as quality improvement, functional coordination, and issues in international manufacturing will also be addressed. Case studies will be used to present and discuss these concepts.

### **BPA 342 Supply Chain Management (6 ECTS)**

A crucial issue that must be addressed in Supply Chains is the management of inventory. The level of inventory has financial implications for an organization and affects the service level provided to customers. A series of strategic decisions must be made regarding the inventory levels, the centralization versus decentralization of the inventory, the use of postponement and parts commonality in product design. These strategic decisions must be based on solid mathematical models that provide management with key financial and operational indices.

Holding excess inventory has the advantage that it leads to high service levels, and thus higher customer satisfaction, but it also increases the company's inventory holding cost. Statistics show that the inventory holding cost in companies varies from 10% to 40% of the cost of producing/purchasing the item. Thus, significant reductions in inventory holding cost can have an impact on the company's profitability. A large body of research quantifies ordering and safety stock policies and analyses product design and its effect on inventory policies.

The understanding of the art of modeling business problems from their descriptive form into mathematical equations, the familiarization with methodologies used for solving problems in supply chains, the presentation of practical techniques to manage inventories under uncertain demand using data from real companies, the study of contemporary techniques such as aggregation/disaggregation of inventory, postponement, and parts commonality and the understanding of the benefits of coordination in a supply chain.

### **BPA 343 Applications of Optimization Models (6 ECTS)**

*Prerequisite: BPA 241*

The course addresses modeling techniques, optimization methods and their application to practical problems. Emphasis is placed on developing modeling skills.

Fundamental principles of mathematical programming are addressed and are applied to case studies wherein students perform analysis for decision support purposes. Modeling realistic problems and solving them with available modeling/optimization packages (e.g. GAMS, AMPL) are integral features of the course. Algorithmic concepts are also covered to the extent necessary, in order to properly utilize the capabilities of optimization packages, interpret their results and perform post-optimality analysis. Various types of mathematical programming models are examined: linear programs, nonlinear programs, multi-objective optimization models, integer programming models, programmes with special structures (e.g. network flow problems, block-structured programmes).

#### **BPA 344 Network Modeling and Dynamic Programming (6 ECTS)**

**Prerequisite:** PBA 241

The course examines issues in network modeling and dynamic programming, with equal emphasis on model formulation and solution techniques. The implementation and solution of large-scale models with computers are integral features of the course.

#### **BPA 345 Management and Improvement of Quality (6 ECTS)**

**Prerequisites:** MAS 061 and MAS 062

The "quality movement" is in the process of evolving from a statistical-based approach to one that envelops transformation of every aspect on management of organizations, from technological to behavioural. The course addresses the changes in management philosophy, explores the tools used by organizations to improve the quality management and organizational productivity, and covers difficulties associated with organizational change. Topics to be covered include: definitions of quality in manufacturing and service operations, quality and product design, quality in process planning, statistical process control, acceptance sampling, Total Quality Management (TQM), and Quality Function Deployment (QFD).

#### **BPA 346 Quantitative Methods in Business II (6 ECTS)**

**Prerequisites:** MAS 061 and MAS 062

The course examines applications of linear regression models to Business Administration. Students will learn about simple and multiple regressions, inferences in regression analysis, diagnostics and remedial measures, polynomial regression, model building procedures, nonlinear regression, and regression models with binary dependent variables. The course emphasizes data analysis from all disciplines of Business Administration. Students will also become familiar with statistical software packages, such as SPSS and Minitab.

#### **BPA 347 Management Information Systems (6 ECTS)**

**Prerequisites:** BPA 244

The course will acquaint students with the different types of information systems that organizations use in support of

their strategy, and explain how firms can deploy technological resources, in order to achieve resource-based competitive advantage. The course introduces the students to e-commerce, with special focus on network effects and the management (e.g., pricing and versioning) of digital goods. Students will become familiar with how firms use web 2.0 tools, in order to support their marketing and knowledge-management efforts, and will come to recognize the important ethical issues raised by the prevalence of information systems in modern business environments. By the end of the course, students will be able to assess the strategic position of a firm, based on its use of technology in support of its strategic resources. Furthermore, students will be practically acquainted with the use of Web2.0 tools and will be required to complete assignments related to social media, wikis, mesh-ups, etc. A number of case studies are used to demonstrate the material in practice. The firms which are closely examined include Zara, Fresh Direct, Capital One, Netflix, Zipcar, Walmart, and Zynga, among others.

#### **BPA 349 Yield Management (6 ECTS)**

Yield management is a process used mainly by service organizations and aims towards the maximization of revenue, under highly uncertain demand. It is also a philosophy that focuses on the appropriate management of unique service characteristics, such as intangibility, perishability and heterogeneity. The result of yield management is a pricing policy that sets the correct prices, in an environment where customers can make independent decisions, have choices, and access to information. The course first examines the importance of yield management. Students have the opportunity to gain an appreciation of the complex factors that influence yield management decisions and they are exposed to a set of methodologies and tools for proper yield management decisions. These are presented through real life examples in service organizations such as hotels, airlines where the applications of yield management tools are the rule rather than the exception.

#### **BPA 440 Case Studies in Business Modeling (6 ECTS)**

**Prerequisite:** BPA 442 (can be taken at the same time) or BPA 343

The modeling of complex business problems is an art that cannot be learned by studying only modeling tools. The course is based on case studies of real-world business problems that can be modeled using a variety of management science tools. Students will learn how to combine linear programming, concepts of probability, decision trees and decision theory to structure a formal decision making approach to a real problem. Analysis, and computer solutions if necessary, will be examined for their managerial implications. This is the capstone course of the Operations Management concentration. It will emphasize the complete cycle: problem understanding-modeling-analysis-development of managerial plans.



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**BPA 442 Linear and Nonlinear Programming (6 ECTS)**

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**Prerequisite: BPA 343**

The course examines linear and nonlinear optimization problems with special emphasis on solution techniques. Linear programming in matrix form the revised simplex method, parametric programming, and duality theory. Nonlinear programming: fundamental concepts, single variable minimization, algorithms for unconstrained optimization, such as the method of steepest descent and Newton-like methods, algorithms for constrained optimization, such as penalty methods and Rosen's gradient projection. Emphasis will also be placed on the computer implementation of optimization techniques.

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**BPA 445 Management of Service Operations (6 ECTS)**

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Service companies constitute the largest and fastest-growing segment of the economies of most developed and developing countries. The course explores the specific tasks faced by managers in various types of service operations. Particular attention is paid to developing an understanding of the close links among the operations, human resources, and marketing functions in service operations. Topics to be covered include: customer contact, manufacturing principles in services, service quality, falsifying services, service recovery, service guarantees, capacity issues in service operations, service driven companies, services in manufacturing (service factory), marketing of service operations.

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**BPA 446 Business Analysis: Predictive Models (6 ECTS)**

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Rapid technological development now provides the ability to easily collect vast amounts of data from a variety of sources, save and quickly recall them, and apply modern, extensive processing methods. The availability of data, both internal to corporate / organization functions, and from external sources (internet), is increasing exponentially. The use of modern technology tools to analyse extensive data collections is universally recognized not only as a competitive opportunity but also as an imperative for companies, organizations, government agencies, etc. The course covers exact methods of collecting and processing extensive data for business systems analysis. Various sources of data are collected from different sources, and modern analytical approaches that come under "machine learning" methods. Specifically, students acquire practical skills in performing descriptive, exploratory and graphical analyses, statistical analysis, problem solving, regression, categorization and grouping for forecasting purposes, using modern computing tools. They also consider the methods of how to diagnose, benchmark and select the most appropriate predictive models, depending on the nature of the problem. The course includes laboratory lessons where students are familiar with the programming language R and examine practical applications with real data from various business problems.

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**BPA 447 Quantitative Methods in Business III (6 ECTS)**

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**Prerequisite: BPA 346**

The course examines applications of multivariate analysis and time series in business. Topics examined include: discriminant analysis, principal components analysis, factor analysis, and cluster analysis, trend and seasonality in time series, and ARMA models.

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**BPA 448 Planning and Managing Projects (6 ECTS)**

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The course will examine the process of project planning, including project definition, managing the organization and cost of projects, managing time and resources in projects, as well as managing risk in projects. The course also presents techniques for the effective initiation and completion of projects and techniques, in order to successfully manage the performance of the project in terms of cost, time and quality during its implementation phase. The course aims at giving students the tools to create a project manual, in which all essential aspects of the project are presented. Computer software related to project management will also be presented.

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**BPA 449 Special Topics in Management Science (6 ECTS)**

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**Prerequisite: BPA 343**

Depending on the interests of the faculty, the specific content of the course will vary from year to year. It will be designed to address current advanced topics in management science. In particular, it is envisioned that projects will be identified with local industry and teams of students will be offered guidance and supervision to work on problems geared to their particular interests. The main course requirements are: readings in the relevant literature, lectures given by the instructor and visiting speakers, and completion of an individual project.

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**BPA 490 Senior Thesis in Management Science I (6 ECTS)**

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Conducting research on theoretical issues or working on practical problems in the area of Management Science.

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**BPA 491 Senior Thesis in Management Science II (6 ECTS)**

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Conducting research on theoretical issues or working on practical problems in the area of Management Science.

## Marketing

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**BPA 251 Principles of Marketing (6 ECTS)**

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**Prerequisite: BPA 131**

The course introduces the concept of marketing and its role in corporate activity. It analyses the forces of the micro environment and macro environment of an organization and examines how these affect the process of taking marketing decisions. It also examines the marketing information system, the behavior of consumer and organizational buyers and the process of target marketing. In addition, it provides a broad investigation of the key elements of the marketing mix program, namely products, pricing, distribution channels and promotion.

**BPA 351 Marketing Research (6 ECTS)****Prerequisite: BPA 251**

The role, value and limitations of marketing research in the overall marketing activity are examined. The course investigates the various steps in the research process and alternative types of research design. It also analyses the basic methods for collecting marketing data and the types of forms used for data collection. Sampling and field procedures are also discussed, as well as the process of analyzing, interpreting and presenting the research findings.

**BPA 352 Consumer Behavior (6 ECTS)****Prerequisite: BPA 251**

The course examines the various theories of consumer behavior and their application to marketing decision-making. It analyses the internal and external influences on consumer behavior and investigates methods for segmenting the consumer market. The consumer decision process is also examined, as are the purchasing act and its outcome. Trends in the consumer market and the issue of consumerism are also discussed within the context of the course.

**BPA 353 Sales Management (6 ECTS)****Prerequisite: BPA 251**

The sales function of marketing management is investigated, with special emphasis on the personal selling process. Planning and budgetary aspects of sales and methods for sales forecasting are discussed. The course also reviews ways of organizing, supervising and monitoring the work of sales people. It analyses the personnel selection and recruitment process, personnel training and education, employee motivation and compensation, and methods for evaluating sales performance.

**BPA 354 Marketing Communications (6 ECTS)****Prerequisite: BPA 251**

The course highlights the role of promotion in marketing and provides an overview of the communication process. It investigates the buyer decision-making process and examines the role of market segmentation and product positioning in promotion. It also analyses in detail the basic promotional tools, namely advertising, sales promotion, personal selling and public relations.

**BPA 355 Distribution Management (6 ECTS)****Prerequisite: BPA 251**

The course provides an understanding of the distribution environment and examines the role of marketing in wholesale and retail strategy. It explains how to research and target the customers of distribution organizations. The course analyses distribution positioning strategy, namely merchandising, customer service, pricing aspects, store environment and customer communications.

**BPA 451 Services Marketing (6 ECTS)****Prerequisite: BPA 251**

The course examines the application of marketing in the area of services. The course investigates the external environment governing the marketing of services, as well as the behavior of the service buyer. It analyses the key elements of the services marketing mix, namely new service development, pricing of services, service distribution and service promotion. It also examines the marketing planning process for services, as well as the service marketing organization, implementation and control.

**BPA 452 International Marketing (6 ECTS)****Prerequisite: BPA 251**

The course investigates marketing activities in an international context. It analyses the major aspects of the international marketing environment, and reviews the international marketing research process. It investigates methods and strategies for foreign market segmentation and selection, and critically analyses the international marketing mix tools, namely, products, pricing, distribution channels, and promotion. Also examined are: the international marketing planning process, as well as the organization, implementation and control of international marketing activity.

**BPA 453 Strategic Marketing (6 ECTS)****Prerequisite: BPA 251**

The strategic aspects of marketing are investigated and the basic tools for marketing warfare are reviewed. The role of marketing within the overall corporate strategy is discussed and the various components of the marketing planning process rigorously examined. Moreover, both the internal and external environments of the firm are analysed. The process of setting strategic and tactical objectives is examined and alternative ways for achieving the strategic objectives are explored. The course also analyses methods for implementing marketing strategies and reviews various control mechanisms.

**BPA 454 Business-to-Business Marketing (6 ECTS)****Prerequisite: BPA 251**

The application of marketing management in relation to organizations is examined. The course reviews the characteristics of the organizational market and analyses the behavior of the organizational buyer. It examines the role of marketing intelligence and methods of segmenting the organizational market. The process of marketing planning and strategy formulation in organizational business is also reviewed. Various aspects of the business-to-business marketing mix, such as new product development, pricing, distribution channels and communications, are critically examined. Insights are also provided into the organization and control of business-to-business marketing strategies.

### **BPA 456 Electronic Marketing (6 ECTS)**

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#### ***Prerequisite: BPA 251***

The course presents the ways in which existing concepts, theories and models of marketing can be used as a basis for designing, developing and implementing effective strategies of electronic marketing. There is a particular emphasis on: a) presenting different ways of utilizing the internet to enhance the effectiveness and efficiency of the traditional mode of marketing, b) the integration of electronic marketing in the existing design tools of marketing, and c) the development of marketing strategies that are based exclusively on the internet.

### **BPA 458 Social Media Marketing (6 ECTS)**

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The rapid expansion of social media marketing has caused fundamental shifts in the way business firms communicate and interact with their customers. The course examines social media from the perspective of marketing, focusing on the new practices and techniques pursued in developing and implementing a firm's marketing strategy. The course content reflects current developments in marketing with respect to social media and bridges the gap between theory and practice using contemporary examples and real-world case studies. The objective of the course is for students to acquire fundamental knowledge and skills that will enable them to set appropriate objectives, develop and implement effective marketing strategies and programs in social media, and monitor and measure the outcomes of these efforts. Upon completion of the course, students should be able to describe the ecosystem of social media and its impact on traditional marketing strategy, identify the profile and purposes of the most popular social media platforms (e.g. Facebook, Twitter, You Tube, LinkedIn, Pinterest), evaluate the appropriateness of each platform for specific businesses, understand the dynamic nature and multiplicity of social media content, design strategies for brand development and growth using appropriate tools, and build corporate reputation and manage crises through social media.

### **BPA 494 Senior Thesis in Marketing I (6 ECTS)**

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Conducting research on theoretical issues or working on practical problems in the area of Marketing.

### **BPA 495 Senior Thesis in Marketing II (6 ECTS)**

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Conducting research on theoretical issues or working on practical problems in the area of Marketing.



**TABLE A: GENERAL DEGREE REQUIREMENTS**

	ECTS		ECTS
Foreign Language (English)	10	Six (6) Depth Courses and five (5) Breadth Courses from the Faculty of Economics and Management	66*
General Education	49	Senior Thesis OR one (1) Depth and one (1) Breadth Course	12
Elective Courses	20	<b>TOTAL</b>	<b>240</b>
Business Fundamentals	84		

\* For Marketing: seven (7) Depth and four (4) Breadth Courses (66 ECTS)

**TABLE B: COMPULSORY COURSES**

	ECTS		ECTS
<b>Foreign Language</b>		<b>Business Fundamentals</b>	
LAN 100 General Advanced English	5	AFN 111 Financial Accounting Principles	7
LAN 101 Academic English	5	BPA 131 Principles and Practices of Management	6
<b>TOTAL</b>	<b>10</b>	AFN 211 Managerial and Cost Accounting	7
<b>General Education</b>		AFN 222 Corporate Financial Management	7
ECO 111 Principles of Microeconomics	7	BPA 231 Organizational Behaviour	6
ECO 121 Principles of Macroeconomics	7	MAS 062 Statistical Analysis II	6
MAS 001 Mathematics I	6	BPA 235 Introduction to Critical Thinking for Management Students	6
MAS 002 Mathematics II	6	BPA 241 Introduction to Operations Management	6
MAS 061 Statistical Analysis I	6	BPA 244 Business Information Technology	7
CS 032 Programming Methods for Problem Solving	6	BPA 251 Principles of Marketing	6
BPA 271 Introduction to Sociology for Administrative Scientists	6	BPA 332 Business Ethics	6
PSY 100 Introduction to Psychology	5	BPA 435 Business Policy	7
<b>TOTAL</b>	<b>50 (or 49)</b>	BPA 468 Entrepreneurship and Innovation	7
		<b>TOTAL</b>	<b>84</b>

**Note:** Students who wish to be exempted from certain compulsory courses, or who wish to take a more individual and independent study approach, must discuss such options with their Academic Advisor to ensure that they fulfill all the requirements for the degree.

**TABLE C: DETAILED PROGRAMME OF STUDIES**

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>	
BPA 131 Principles and Practices of Management	6	Three Business Depth Courses	18
ECO 121 Principles of Macroeconomics	7	Two Business Breadth Courses (from FEM)	12
MAS 001 Mathematics I	6	<b>Spring Semester</b>	
LAN 100 General Advanced English	5	BPA 332 Business Ethics	6
PSY 100 Introduction to Psychology	5	Two Business Depth Courses	12
<b>Spring Semester</b>		One Business Breadth Course (from FEM)	6
AFN 111 Financial Accounting Principles	7	One Elective Course	5
ECO 111 Principles of Microeconomics	7	<b>4th YEAR</b>	
MAS 002 Mathematics II	6	<b>Fall Semester</b>	
LAN 101 Academic English	5	BPA 435 Strategic Management	7
CS 032 Programming Methods for Problem Solving	6	Two Business Depth Courses or one Business Depth Course and one Business Breadth Course from FEM	12
<b>2nd YEAR</b>		One Elective Course	5
<b>Fall Semester</b>		Senior Thesis or one Business Depth Course or one Business Breadth Course	6
AFN 211 Managerial and Cost Accounting	7	<b>Spring Semester</b>	
BPA 241 Introduction to Operations Management	6	BPA 468 Entrepreneurship and Innovation	7
BPA 251 Principles of Marketing	6	One Business Breadth Course (from FEM) or	
PBA 271 Introduction to Sociology for Administrative Scientists	6	One Business Depth Course	6
MAS 061 Statistical Analysis I	6	Two Elective Courses	10
<b>Spring Semester</b>		Senior Thesis or one Business Depth Course or one Business Breadth Course	6
AFN 222 Corporate Financial Management	7		
BPA 231 Organizational Behaviour	6		
BPA 235 Introduction to Critical Thinking for Management Students	6		
BPA 244 Business Information Technology	7		
MAS 062 Statistical Analysis II	6		

**TABLE D: COMPULSORY COURSES**

	ECTS		ECTS
<b>Management</b>			
<b>Required Courses</b>			
BPA 336 Business Communication	7	BPA 347 Management Information Systems	6
		BPA 349 Yield Management	6
		BPA 440 Case Studies in Business Modelling	6
		BPA 442 Linear and Nonlinear Programming	6
		BPA 445 Management of Service Operations	6
		BPA 446 Applications of Neural Networks in Business	6
		BPA 447 Quantitative Methods in Business III	6
		BPA 448 Planning and Managing Projects	6
		BPA 449 Current Topics in Management Science	6
		* Only 1 course from other Department can count against the obligations for depth courses – after permission by the academic advisor	
<b>Breadth Courses</b>			
		* Any 3rd and 4th year courses from at least 2 other specialties offered by the Departments of the FEM may be selected by the students according to their interests and after a consultation with their academic advisor	
		** Any of the courses from the BPA Department with Codes of 33X, 35X, 36X, 43X, 45X, 46X, as well as courses from AFN & ECO with codes > 300, can be admeasured as Breadth Courses.	
		*** None of the courses can be admeasured on more than one of the requirements of the degree.	
<b>Marketing</b>			
<b>Required Courses</b>			
		BPA 351 Marketing Research	6
		BPA 352 Consumer Behaviour	6
		BPA 353 Sales Management	6
		BPA 354 Marketing Communications	6
		BPA 452 International Marketing	6
		BPA 453 Strategic Maketing	6
		BPA 456 Electronic Marketing	6
		* To fulfill the requirements of the Marketing major students need to take seven (7) depth courses (42 ECTS)	
<b>Breadth Courses</b>			
		* At the same time, students have to attend four (4) Breadth Courses, which are offered by the other specialties of the FEM.	
		** One of the four Breadth courses should be the course BPA 346: Quantitative Methods in Management II	
<b>Operations Management</b>			
<b>Required Courses</b>			
BPA 341 Operations Management	6		
BPA 343 Applied Mathematical Modeling	6		
<b>Selection of four courses from the following:</b>			
BPA 342 Logistics and Distribution	6		
BPA 344 Network Modeling and Dynamic Programming	6		
BPA 345 Management and Improvement of Quality	6		
BPA 346 Quantitative Methods in Business II	6		



**TABLE E: REQUIREMENTS FOR A MINOR DEGREE IN BUSINESS ADMINISTRATION**

		ECTS			ECTS
<b>Compulsory Courses</b>			<b>Elective Courses from Operations Management</b>		
AFN 111	Financial Accounting Principles	7	BPA 341	Operations Management	6
BPA 131	Principles and Practices of Management	6	BPA 342	Supply Chain Management	6
BPA 244	Business Information Technology	7	BPA 343	Applications of Optimization Models	6
AFN 211	Managerial and Cost Accounting	7	BPA 344	Network Modeling and Dynamic Programming	6
AFN 222	Corporate Financial Management	7	BPA 345	Management and Improvement of Quality	6
BPA 231	Organizational Behaviour	6	BPA 347	Management Information Systems	6
BPA 241	Introduction to Operations Management	6	BPA 349	Field Management	6
BPA 251	Principles of Marketing	6	BPA 440	Case Studies in Business Modeling	6
BPA 435	Strategic Management	7	BPA 442	Linear and Nonlinear Programming	6
<b>Elective Courses from Management</b>			BPA 445	Management of Service Operations	6
BPA 332	Business Ethics	6	<b>Elective Courses from Marketing</b>		
BPA 334	Human Resource Management	6	BPA 351	Marketing Research	6
BPA 335	Cross-cultural Management	6	BPA 352	Consumer Behaviour	6
BPA 336	Business Communication	6	BPA 353	Sales Management	6
BPA 337	Employment Relations	6	BPA 355	Distribution Management	6
BPA 338	Qualitative Research Methods in Business	6	BPA 356	Communicative Marketing	6
BPA 362	Advanced Organizational Behavior	6	BPA 446	Electronic Marketing	6
BPA 430	Current Issues in Management	6	BPA 452	International Marketing	6
BPA 431	Gender, Work and Organizations	6	BPA 453	Strategic Marketing	6
BPA 432	Innovation Management	6	BPA 454	Business to Business Marketing	6
BPA 436	Leadership	6	BPA 456	Electronic Marketing	6
BPA 438	International Business	6	BPA 458	Social Media Marketing	6
BPA 439	Management of Public Organizations	6			
BPA 460	Advanced Topics In Strategy	6			
BPA 463	Negotiations and Conflict Management	6			
BPA 468	Entrepreneurship and Innovation	7			
BPA 469	Creativity and Design Thinking in Organization	6			



## Faculty of Economics and Management

# ● ● ● ● Department of Economics

[www.ucy.ac.cy/econ/en](http://www.ucy.ac.cy/econ/en)

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Sofronis Clerides

### **VICE-CHAIRPERSON**

Marios Zachariadis

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Christoforos Pissarides  
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Marios Michaelides  
Nicos Theodoropoulos  
Dimitrios Xeferis  
Nicos Ziros

### **LECTURERS**

Louis Philippos  
Nicos Tsakas

## INTRODUCTION

Economics is an important discipline because it studies the behaviour of human beings, both as individuals and as organized society. As individuals, we continuously face economic problems, such as whether and how much to save, what goods and services to purchase, and how to increase and use our income to satisfy the multitude of our economic needs. Societies, too, continuously face economic problems, such as inflation, unemployment and balance-of-payments disequilibrium. A nation's effective solution to these problems determines its standard of living and consequently its ranking in the international community.

Understanding the economic behaviour of the individual and the basic principles that govern the functioning of a modern economy, enables the economist to evaluate economic indicators and information correctly and to make rational decisions. With such knowledge, the economics graduates can pursue a career in civil service, banking, education or research and earn an important position in the public or private sector. Our graduates have the necessary prerequisites to pursue graduate studies either at the University of Cyprus or at foreign universities of international reputation, and many have been admitted to prestigious graduate programmes in the UK and the USA, some with very generous scholarships. Upon graduation from doctoral programmes, several of these students have secured academic positions abroad.

## OBJECTIVES OF THE DEPARTMENT

The aim of the Department is to advance economic discourse at the national and international level and to promote knowledge in the field of International and European Economic Relations. In particular, the objectives of the Department are to:

- (a) Equip students with the qualifications necessary for employment in Cyprus and the EU and comparable to those of the best universities abroad.
- (b) Prepare students for graduate studies and research in Cyprus and at top universities abroad.
- (c) Engage in research in order to produce results of high international academic standard.
- (d) Set the standards for the discussion of European and International economic issues and appropriate economic policy decisions.

The Department's teaching philosophy is to encourage students to study economic and European Economic Relations issues in depth using independent thinking. For this reason, the primary aim of the teaching programme is to help students develop strong analytical skills and acquire the ability to critically assess economic arguments.

## UNDERGRADUATE DEGREE PROGRAMMES

The Department of Economics offers undergraduate studies leading to:

- (a) A degree in Economics
- (b) A degree in International, European and Economic Studies
- (b) The Department in collaboration with the Department of Mathematics and Statistics offers an inter-departmental undergraduate degree in Mathematics and Economics.

The analytical programmes of study for the degree in Economics and for the degree in International, European and Economic Studies are outlined in Tables A-G. The analytical programme of study for the interdepartmental degree in Mathematics and Economics is outlined in Tables H-I.

The programmes include Basic Courses in economic theory, statistics and econometrics, mathematical economics and several field courses in Economics and European Economics. An essential prerequisite for admission to the Department is good knowledge of the English Language and Mathematics.

## REQUIREMENTS FOR THE DEGREE IN ECONOMICS

To acquire a degree in Economics, students must complete at least 240 ECTS of which:

- a) At least 150 ECTS must be from the Department of Economics (courses with the code ECO) and must concern compulsory ECO courses and restricted elective ECO courses.
- b) At least 32 ECTS must come from a list of restricted elective courses approved by the Department, either from other Departments or the Department of Economics (in addition to those included in the 150 ECTS mentioned in (a) above).
- c) At least 20 ECTS must be elective courses taken from at least three different faculties of the University; students may take maximum two sport courses - 6 ECTS in total which count as one elective course.
- d) 18 ECTS from the courses MAS 001, MAS 061 and CS 003, which the students attend during their first year of studies.
- e) 15 ECTS must be from the English Language.

\*The sum of the minimum ECTS regarding the requirements a-e is 235 ECTS overall/in total. Therefore, one more course will have to be taken from the requirements a-c in order to complete at least 240 ECTS that are required for the Degree in Economics.



## MINOR IN ECONOMICS

The Department of Economics offers a Minor in Economics for a limited number of students in other departments of the University. Table D shows the requirements for a Minor in Economics.

## REQUIREMENTS FOR THE DEGREE IN INTERNATIONAL, EUROPEAN AND ECONOMIC STUDIES

To graduate with a degree in International, European and Economic Studies, students must complete at least 240 ECTS, out of which:

- a) At least 111 ECTS must be from the Department of Economics (course codes ECO) from which 63 ECTS refer to compulsory courses.
- b) At least 20 ECTS must be elective courses taken from at least three different faculties of the University. Students may take maximum two sport courses -6 ECTS in total- which count as one elective course.
- c) At least 24 ECTS must be from the Department of Accounting and Finance (course codes AFN) or/and from the Department of Business and Public Administration (course codes BPA).
- d) At least 12 ECTS must be from a list of specific courses from the Department of Social and Political Sciences (course codes SPS).
- e) At least 12 ECTS must be from a list of specific courses from the Department of Law (course codes LAW).
- f) At least 10 ECTS must be from a list of specific courses from the Department of History and Archaeology (course codes HIS).
- g) 18 ECTS must be compulsory courses from other departments.
- h) At least 15 ECTS as English language courses.
- i) At least 15 ECTS must be in another foreign language (3 levels required).

\*The sum of the minimum ECTS regarding the requirements of a-i is 237 ECTS overall/in total. Therefore, one more course will have to be taken from the requirements a-c in order to complete at least 240 ECTS that are required for the Degree in Economics.

## COURSE DESCRIPTIONS

### ECO 101 Introduction to Economics (6 ECTS)

The course introduces students to basic economic concepts. The first part of the course describes micro-economic concepts such as the circular flow of money, the production possibility frontier, comparative advantage and trade, consumer demand and production function, price and income elasticity, consumer surplus, the functioning of markets, economic policy and welfare and economics of the public sector.

The second part covers macroeconomic concepts and includes the measurement of national income and cost of living, various types of unemployment, role of minimum income and trade unions, measurement, causes and effects of inflation and aggregate demand and aggregate supply.

### ECO 111 Principles of Microeconomics (7 ECTS)

The course introduces the basic principles of decision making of consumers, firms, and the government. After a short introduction to the basic concepts required to understand and analyse economic problems, the course examines the market forces of demand and supply and the calculation of elasticities. It then describes the impact of various government policies and explains how to evaluate the efficiency of market outcomes. The cost structure of firms and profit maximizing conditions, as well as market structure are explained, and, finally, externalities and their impact on market outcomes and the gains from trade are discussed.

### ECO 121 Principles of Macroeconomics (7 ECTS)

The course provides an intensive introduction to the tools and concepts of macroeconomics. It focuses on the performance of national economies and policies instituted by governments and central banks that affect economic performance. The course focuses on issues of economic growth, unemployment and inflation, money creation and determination of the interest rates.

### ECO 211 Microeconomic Theory (7 ECTS)

#### *Prerequisite: ECO 111*

Microeconomic Theory analyses the behaviour of consumers and firms, examines the way they interact in the market, and evaluates market performance in the allocation of economic resources. The course focuses on the systematic analysis of consumer and producer theory and the operation of competitive and monopolistic markets, while also briefly introducing Oligopoly Theory.

### ECO 212 Application of Quantitative Methods in Economics (7 ECTS)

#### *Prerequisite: MAS 061*

This is the first course in a series of courses on econometrics that will provide the foundation for an empirical analysis of economic phenomena such as inflation, unemployment, economic growth, and inequality.

In this course, we study the basic elements of probability theory and statistics, the specification and estimation of the linear regression model, the properties of LS estimators in the linear regression model, inference (hypothesis testing and confidence intervals) in the linear regression model. We also study model selection and misspecification tests to assess the statistical adequacy of the model. Furthermore, we study the topic of heteroskedasticity, nonlinearity, and temporal dependence. Finally, we cover simple time-series models and prediction. One of the central goals of this course is to introduce students to the econometric software package STATA in the empirical applications of linear regression model, using real observable economic data.

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**ECO 213 Mathematics for Economists I (7 ECTS)**

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**Prerequisite: MAS 001**

The aim of the course is to provide a firm foundation in the mathematical concepts and techniques used in economics. The core topics of the module are the fundamentals of mathematics, univariate and multivariate calculus, unconstrained and constrained optimization. Economic applications will be discussed for each topic.

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**ECO 221 Macroeconomic Theory (7 ECTS)**

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**Prerequisite: ECO 121**

The course offers a short description of the main economic variables before the study of the goods and money markets. The closed economy IS-LM model is presented in detail, especially for its use in analysis of fiscal and monetary policies. The supply side of the economy is introduced: the labour market, the price setting and wage setting behaviour of firms and the medium-run equilibrium. This first part of the course covers the goods, money, and labour markets in great detail. In the second part, the AD-AS model, which examines the simultaneous equilibrium in all markets, in both the short- and medium-run, is presented. In addition to the determination of price level, nominal and real wages, interest rate and national income, the AD-AS model is used to analyse fiscal and monetary policies, inflation rate and unemployment rate. Finally the course discusses how the IS-LM model can be extended to include the role of expectations and considers some topics on open economies.

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**ECO 222 Introduction to Econometrics (7 ECTS)**

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**Prerequisite: ECO 212**

The course provides an introduction to linear regression analysis. It covers the estimation of simple and multiple regressions with emphasis on analysis of the results. It also describes extensions of the models such as logarithms, nonlinearities and dummy variables, as well as hypothesis tests on linear regression, including heteroskedasticity. It introduces the econometric software, STATA, used for estimation and testing.

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**ECO 223 Mathematics for Economists II (7 ECTS)**

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**Prerequisite: ECO 213**

The course is a continuation of ECO 213 Mathematics for Economists I, and it presents advanced mathematical topics related to static and dynamic economic problems. Using both theoretical and practical exercises, the course focuses on developing the skills required for the programme's core economics courses.

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**ECO 301 Topics in Microeconomics (7 ECTS)**

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**Prerequisite: ECO 211**

The course studies general equilibrium and welfare economics, as well as topics related to consumer and producer behaviour using duality techniques. It also covers topics in game theory, uncertainty and information economics, public goods and externalities.

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**ECO 302 Topics in Macroeconomics (7 ECTS)**

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**Prerequisite: ECO 221**

The course takes a structured approach to selected topics in modern macroeconomic theory. Mathematical models will be presented and analysed based on microeconomic principles of orderly rationality and individual optimization, and empirical facts (stylized) that characterize the temporal performance of finances. Particular emphasis will be placed on general equilibrium theory within competitive markets and the theory of economic growth. Sub-topics covered include the relationship of competitive equilibrium with Pareto-efficiency, temporal substitution of consumption, savings and economic convergence.

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**ECO 303 Econometrics (7 ECTS)**

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**Prerequisite: ECO 222**

The course (ECO 303) presupposes students' knowledge of probability theory as covered in ECO 212, and builds on their knowledge of the classical linear regression model and statistical inference techniques covered in ECO 222. Topics in this course include: generalized least squares method; regression analysis for time series data and panel data; instrumental variable and two-stage least squares estimation; binary dependent variable models and simultaneous equation models. There is an emphasis on application of theoretical concepts to practical economic issues using computer-based exercises in STATA. This course also aims to give students the applied econometrics skills they will need for their undergraduate thesis.

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**ECO 305 International Trade (6 ECTS)**

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**Prerequisite: ECO 211**

The course examines the various theories and issues associated with trade policy, including absolute and comparative advantage, specific factors, the Heckscher-Ohlin model and the impact of external economies of scale and imperfect completion on trade. It also analyses the various tools of trade policy, their impact on welfare as well as the political economy of trade. Finally, it examines trade policy in developing countries and trade agreements.

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**ECO 306 International Finance (6 ECTS)**

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**Prerequisite: ECO 221**

The course examines topics such as: national income accounting and balance of payments; foreign exchange market and exchange rate determination in the short run and long run; national income and exchange rate; fixed exchange rates and foreign exchange intervention; international monetary systems from 1870-present; macroeconomic policy and coordination under flexible exchange rates; optimum currency areas and Europe; the global capital market and developing countries, growth, crisis and reform.

**ECO 308 Economic Development (6 ECTS)****Prerequisite:** ECO 221

The course introduces the main economic problems faced by developing countries. Among the topics covered we present a broad picture of the typical characteristics of an underdeveloped economy and possible underlying causes for such underdevelopment. We discuss what policies can be adopted to improve the living conditions in these countries, presenting a wide array of macro and microeconomic models together with relevant empirical evidence.

**ECO 309 Economic Growth (6 ECTS)****Prerequisite:** ECO 221

The course examines various models of economic growth, beginning with models of exogenous growth where we first examine the well-known Solow-Swan growth model and then its theoretical and empirical extensions. It then focuses on models of endogenous growth. These models attempt to explain the patterns of growth and development observed in historical data and try to understand how various government policies can affect a country's long-term growth.

**ECO 310 Money, Banking and Financial Markets (6 ECTS)****Prerequisite:** ECO 221

Topics covered in the course include: money demand, money creation, instruments and targets of monetary policy, monetary transmission mechanism, the banking system and financial markets, role of the central bank, structure of interest rates, portfolio selection.

**ECO 311 Labour Economics (6 ECTS)****Prerequisite:** ECO 211

The course covers static and dynamic models of labour supply that are used to make decisions about participation in the labour market, and the number of hours to work. It examines topics of labour demand, namely, the firm's decision to hire workers and how it determines the employment level. Further, it examines compensating wage differentials and human capital theory. Additional topics include the structure of wages, labour mobility, labour market discrimination, incentive pay, and unemployment.

**ECO 312 Industrial Organization (6 ECTS)****Prerequisite:** ECO 211

Industrial organization is the branch of economics that studies imperfectly competitive markets. The course will analyse the basic theoretical models of competition in oligopolistic markets with homogeneous or differentiated products, under price or quantity competition, and in the presence of price leadership and capacity constraints. The models provide the tools required to analyse topics such as the relationship between technology and market structure, collusion and cartels, predatory behaviour and entry deterrence, and auctions.

**ECO 313 Public Economics (6 ECTS)****Prerequisite:** ECO 211

The course is an introduction to the microeconomics of the public sector. Initially, it examines the circumstances under which an economy without a public sector achieves efficient allocation of resources. Subsequently it examines the problems that arise due to public goods, externalities and incomplete information, and examines the means through which the government can intervene to ensure a more efficient allocation of resources. Finally, it examines the impact of public expenditure and taxation on the supply of factors of production, the efficient allocation of resources and the equitable distribution of income.

**ECO 315 International Taxation and National Policy (6 ECTS)****Prerequisite:** ECO 211

The course presents the basic facts, concepts and main issues of international taxation, and outlines any tax implications for the international movement of goods and capital. The first part of the course introduces students to basic taxation concepts and describes the principles of direct and indirect optimal taxation in a closed economy. The second part looks at how the optimal tax rules are modified in an open economy and considers how national tax policies affect the allocation of capital in an international context. Issues of international tax competition and harmonization, the behaviour of multinational firms and the international allocation of savings, investment and production, are also considered.

**ECO 316 Economics of the European Union (6 ECTS)****Prerequisite:** ECO 111

We start with a historical review of the European Union: the perceived need to create a united Europe after the Second World War; the various attempts at establishing such a union; the EU's growth and enlargement. We also examine the structure and the functioning of European institutions such as the European Parliament, the European Council, and the European Court of Auditors. Then, using basic micro- and macro - economic models, we examine the following topics: economic integration, customs union and common market, economic growth, free capital and labour mobility. Additional topics include the common agricultural policy, the theory of comparative advantage and specialization, unemployment, economic geography and regional policy.

**ECO 317 Topics in European Economic Integration (6 ECTS)****Prerequisite:** ECO 221

Topics covered in the course include: similarities and differences between the gold standard and the euro; exchange rate regimes; optimum currency areas; the EMS, the EMU, the euro, banks and the banking union; fiscal policy, the stability pact and fiscal union. We will assess integration in terms of price level convergence within the Eurozone, and examine the European (fiscal) crisis in



relation to the global financial crisis, and in relation to structural problems of the economy. We also consider the role of overconsumption, budget deficits, trade deficits, and long-term growth.

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**ECO 320 History of Economic Thought (6 ECTS)**

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The course will trace the evolution of economic thought from antiquity to the present day. The emphasis will be dual: on specific key ideas rather than on comprehensive theories of economic systems; on the linkages between economic thinking and other historical and social phenomena. The course is divided into three units. The first unit will trace the roots of key economic ideas in the writings of ancient scholars, traders and physiocrats. The second unit will focus on the analysis of the market economy as developed by the classical economists and on the critique articulated by Marx and others. The third unit will examine important 20th century developments (institutionalism, Keynesianism, the Austrian school, monetarism, etc.) and will end with an assessment of modern economic thinking. The course is intended for a broad audience and does not require prior knowledge of economics.

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**ECO 324 Introduction to Political Economy and Public Policy (6 ECTS)**

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***Prerequisite: ECO 211***

The course is designed to introduce students to the economic approach to politics, also known as positive political theory or rational choice theory. Political economy seeks to understand and explain policy outcomes and political behaviour in an environment where political actors are rational and goal oriented. The course will focus on models of politics that build on formal reasoning and mathematical expressions. Political outcomes are then explained by the interaction between these actors within the institutional particularities of their environment.

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**ECO 326 Urban and Regional Economics (6 ECTS)**

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***Prerequisite: ECO 211***

The course is designed to familiarize students with regional economic development, and the reasons for varying rates of development across different countries. We will examine models of regional growth and development and look at how they impact on economic policy. Moreover, we will consider socioeconomic impact analysis to forecast sub-national economic changes.

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**ECO 327 Environmental Economics (6 ECTS)**

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***Prerequisite: ECO 211***

The course examines the relationship between the economy and the environment using economic concepts and analytical tools. After a general overview of the topic, we examine the following topics: the problem of pollution and pollution externalities in a competitive market; the economic efficiency of environmental regulatory measures, such as pollution standards, taxes, subsidies, and marketable pollution permits; cost-benefit analysis and non-market valuation techniques. To conclude, we offer an

overview of some of the main topics in the current literature.

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**ECO 331 Productivity and Technology (6 ECTS)**

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***Prerequisite: ECO 211***

The course presents different methods for measuring productivity and technological change. Knowledge of producer theory and basic econometrics is required.

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**ECO 355 Topics in International Economics (6 ECTS)**

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***Prerequisite: ECO 211***

The course examines the international economy and the environment in which multinational corporations operate. It analyses the purpose and rules of the World Trade Organization and other international organizations. Regional trade agreements, like the European Union and NAFTA, are also examined, as well as foreign exchange markets and the different strategies that multinational corporations use.

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**ECO 362 Structure and Strategy of Firms (6 ECTS)**

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***Prerequisite: ECO 312***

The course will develop students' understanding of a firm's organization and its strategic decision making. The first part of the course, focused on structure, will review the main theories of the firm, examining questions such as: What is a firm? What are its objectives? What factors determine its scale and scope? Topics in this part include bilateral monopoly, bargaining and principal-agent relationships. The second part will focus on firms' strategic choices in various markets. Examples include mergers and acquisitions, vertical integration, pricing strategies, quality choice, tying and bundling, research and development, and standard setting.

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**ECO 363 Regulation Theory and Policy (6 ECTS)**

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***Prerequisite: ECO 211***

The course examines the motivation, methods and implications of state intervention in the economy. What is the purpose of state intervention? What tools do governments have at their disposal? What are the consequences – intended or unintended – of government intervention? The course examines the regulation of natural monopolies, methods of granting monopoly rights, and legal restrictions to market entry. The energy and telecommunications markets are examined as case studies; and the role of competition policy – which is the broader policy that aims at promoting competition in markets – in relation to regulation is also discussed.

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**ECO 370 Topics in Financial and Monetary Economics (6 ECTS)**

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***Prerequisites: ECO 111 and ECO 221***

The course covers topics such as: investment analysis, risk-return analysis performance, the Capital Asset Pricing Model (CAPM), efficient market hypothesis, prices and returns of stocks and bonds, monetary policy, supply and demand for money, money multiplier and the Taylor rule.

**ECO 397 Research Methods in Applied Economics I (6 ECTS)****Prerequisites:** ECO 211, ECO 212 and ECO 221

The course is an introduction to the tools required for research in economics or for work as a professional economist. The course covers different aspects of the modern economist's research toolbox, including Mathematics and Statistics, Academic Skills for Economists and Empirical Econometric Skills. The aim of these modules is to introduce or review the tools students need to master the material presented in the programme and to also help them in independent research and/or work as a professional economist.

**ECO 398 Topics on the Cyprus Economy (6 ECTS)****Prerequisites:** ECO 211 and ECO 221

The aim of the course is to expose students to important economic issues and problems facing the Cyprus economy. This course is designed to combine theory with practice by showing how economic principles can illuminate the workings of the Cyprus economy; in this way, therefore, the course builds on earlier economic theory and policy courses. Topics covered include: review of economic developments between the period 1960-2001; balance of payments issues and exchange rate policy; monetary policy; implications of the single market and economic and monetary union; effects of financial reform and liberalization; inflation and unemployment. The course also looks at some econometric models and empirical applications to the above topics.

**ECO 415 Game Theory (6 ECTS)****Prerequisite:** ECO 301

The course develops and analyses the basic principles of Game Theory. Game Theory is the study of decision making between strategically interdependent agents. Static and dynamic games of complete information as well as incomplete information are examined. The various concepts and solution methods are illustrated through the use of economic applications such as bargaining, auctions, mechanism design, signaling and reputation.

**ECO 473 Applied Econometrics (6 ECTS)****Prerequisite:** ECO 303

The course offers a brief overview of the classical linear regression model and examines econometric models for cross-section data and space-series data. Economic applications and the use of specialized econometric software are emphasized. Topics will be drawn from: theory of production functions; models of multiple equations; models of limited dependent variables; elements of spatial analysis and models for macroeconomic data.

**ECO 497 Research Methods in Applied Economics II (8 ECTS)****Prerequisite:** ECO 399

The course is the continuation of ECO 399 and provides a deeper analysis of the fundamental tools necessary for research in economics or for work as a professional economist. The course covers different aspects of the modern economist's research toolbox, including Mathematics and Statistics, Academic Skills for Economists and Empirical Econometric Skills. The aim is to introduce or review the tools students need to master the material presented in the programme, and to help them in independent research and/or work as a professional economist.

**MAS 101 Calculus I (8 ECTS)**

Fundamental properties of real numbers. Sup and Inf of a set and its basic properties. Sequences, its limits, properties of converging sequences. Subsequences. Nested interval principle. Functions and their limits. Sequential approach to limits of functions. Continuity of functions. Intermediate value theorem and existence of extreme values theorem. Uniform convergence. Derivatives, basic results. Mean value Theorem and its variations. Continuity and derivative of inverse function. Graph of a function. L'Hôpital's Rule.

**MAS 102 Calculus II (8 ECTS)****Prerequisite:** MAS 101

Partitions, upper and lower sums, Riemann integral on a closed interval. Basic existence theorems of integrals. Computation of volumes and areas. The fundamental theorems of calculus, generalized integrals. Logarithmic and exponential functions. Basic methods of integration, integration by parts, substitution, induction formulas, integration of rational functions. Taylor's formula, computation of Taylor's formula for various basic functions. Approximation of smooth functions by polynomials, the irrationality of  $e$ . Series, comparison test, Cauchy's criterion, ratio test,  $n$ th root test, integral test, absolutely and conditionally convergent series, Leibniz's Theorem for alternating series, Abel's and Dirichlet's criteria, products of series.

**MAS 121 Linear Algebra I (8 ECTS)**

The algebra of matrices, invertible matrices. Reduced echelon form of a matrix and linear systems of equations. Vector spaces, base, dimension. Linear maps, matrix of a linear map, change of basis matrix, rank of a matrix. Determinants. The set of solutions of a linear system. Eigenvalues, eigenvectors and eigenspaces.

**MAS 122 Linear Algebra II (8 ECTS)****Prerequisite:** MAS 121

Polynomial ring. Characteristic polynomial, diagonalization, applications. Cayley-Hamilton theorem, minimal polynomial. Invariant subspaces, generalized eigenspaces. Primary decomposition theorem. Nilpotent endomorphisms, Jordan

canonical form. Inner-product spaces, Gram-Schmidt method. Special matrices and their properties.

### **MAS 131 Basic Mathematics (7 ECTS)**

Functions and limits. Differentiation. Applications of differentiation, graphs, optimization problems. Integration (indefinite, definite and improper integrals), techniques of integration. Applications of integration (areas of domains in the plane, volumes of solids, arc lengths of curves and areas of surfaces of revolution). Differential equations. Complex numbers.

### **MAS 202 Multivariate Integral Calculus (8 ECTS)**

Integrable functions and sets, properties. Fubini's Theorem. Iterated integrals for continuous functions over a compact set (scalar functions over regions of the type  $Q = ]1 \times ]2 \times ]3 \times \dots \times ]n[$ ). Change of variables Theorem for linear and  $C^1$ -invertible transformations. Computation of volumes, Cavalieri's principle, examples such as the sphere, cylinder and cone. Convergence theorems (interchanging limits and integrals). Transform Theorem (without proof), applications. Parametrized surfaces, partition of unity. Surface and line integrals, computing the area of a surface. Differential forms, Stokes' Theorem (Green, Gauss, Stokes), applications.

### **MAS 203 Ordinary Differential Equations (7 ECTS)**

Separable ODEs. First order ODEs and integrating factors. Picard-Lindelöf theorem. Second order ODEs with constant coefficients. The method of undetermined coefficients and the method of variation of parameters. Systems of first order ODEs.

### **MAS 211 Multivariate Differential Calculus (8 ECTS)**

Vector valued functions of one variable (differentiation, arc length, parameter transformations). Partial derivatives (of all orders), vector fields (divergence, curl), Laplace operator. Total differential (directional derivative, differentiability criterion, computational rules, chain rule, etc). Mean value Theorem, differentiation of integrals with respect to a parameter. Taylor's Theorem, local extrema. Implicit and inverse function Theorem. Conditional extrema (Lagrange multipliers).

### **MAS 261 Probability I (7 ECTS)**

**Prerequisites:** MAS 101 and MAS 102

Counting methods, combinatorics, probability measure space through  $\sigma$ -algebras, independence of events, random variables, cumulative distribution function, discrete and continuous random variables, mean value, multivariate distributions, multivariate normal distribution, sums of random variables, distributions of functions of random variables, covariance function, independence of random variables through the cumulative distribution function, moment generating function, characteristic function, introduction to the law of large numbers, introduction to the central limit theorem.

### **MAS 262 Statistics I (7 ECTS)**

Random samples, statistical experiments, statistics, estimation methods (e.g. method of moments, method of maximum likelihood), properties of estimators (e.g. unbiasedness, sufficiency, completeness), exponential families, Rao-Blackwell theorem, Lehmann-Scheffe theorem, Cramer-Rao variance lower bound, confidence intervals, minimum length confidence intervals, hypotheses testing, properties of tests.

### **MAS 301 Real Analysis (8 ECTS)**

Metric spaces, Normed spaces. Examples. Open and closed sets, interior and closure of a set. Accumulation points and the derived set. The Bolzano-Weierstrass Theorem. Convergence of sequences in metric spaces. Cauchy sequences. Complete metric spaces. The fixed point theorem. Compact sets in metric spaces. The Heine-Borel Theorem. Compact metric spaces. Continuous functions. Continuous and uniformly continuous functions. Continuity and compactness. Sequences and series of functions. Uniform convergence. Uniform convergence and continuity, uniform convergence and integration, uniform convergence and differentiation. The metric of uniform convergence. Sufficient conditions for uniform convergence of a series of functions.

### **MAS 302 Complex Analysis I (7 ECTS)**

Complex numbers, analytic functions, Cauchy-Riemann equations. Harmonic functions. Exponential, trigonometric and logarithmic functions. Integration, Cauchy's Theorem, Cauchy's integral formulas and inequalities. Liouville Theorem and the fundamental theorem of Algebra. Maximum modulus principle. Taylor and Laurent series, residues. The argument principle. Conformal mappings and Mobius transformations.

### **MAS 303 Partial Differential Equations (7 ECTS)**

1st order PDEs, Non-linear 1st order PDEs, Linear PDEs of 2nd order, Elliptic, Parabolic, Hyperbolic PDEs, Separation of variables, Fourier series.

### **MAS 304 Functional Analysis (7 ECTS)**

Metric and normed linear spaces, examples, series, Schauder bases, bounded linear operators, linear functionals, dual spaces. Inner product spaces, orthogonality, orthonormal sets, Bessel's inequality, Hilbert spaces, projections, orthogonal complements. Riesz representation Theorem, orthonormal bases. Zorn's Lemma, Hahn-Banach Theorem with applications, the Principle of Uniform Boundedness with applications, the Open Mapping Theorem with applications, the Closed Graph Theorem with applications.

### **MAS 321 Introduction to Algebra (7 ECTS)**

Groups, permutations and symmetric groups, cyclic groups. Subgroups and the Theorem of Lagrange. Homomorphisms and Quotient groups. Rings, integral domains and fields. Homomorphisms, ideals and quotient



rings. Polynomial rings, divisibility in polynomial rings, prime and maximal ideals. Finite fields and field extensions.

### MAS 331 Classical Differential Geometry (7 ECTS)

The Euclidean space  $\mathbb{R}^n$ : inner product, Cauchy-Schwarz inequality, isometries. Curves in  $\mathbb{R}^n$ : parametrized curves, length, periodic, closed curves. Curves in  $\mathbb{R}^2$ : curvature, Frenet equalities, winding number, isoperimetric inequality, Hopf Theorem. Curves in  $\mathbb{R}^3$ : curvature, torsion, Frenet equalities, Fundamental theorem. Surfaces in  $\mathbb{R}^3$ : regular surfaces, local parametrization, examples. Differentiable maps between surfaces, tangent space, total differential. First fundamental form, orientation, Gauss map, second fundamental form, principal curvatures, curvature lines, normal curvature, Gauss curvature, mean curvature. Integration on surfaces. Ruled, minimal surfaces, surfaces of revolution. Isometric (locally isometric) surfaces, Christoffel symbols, Theorema Egregium (Gauss). Parallel vector fields, geodesics, geodesic curvature. Gauss-Bonnet Theorem.

### MAS 350 Stochastic Processes (7 ECTS)

**Prerequisite:** MAS 261

Stochastic process, stationary processes, stopping times. Markov chains, Poisson processes, Brownian motion.

### MAS 361 Probability II (7 ECTS)

Review of basic elements from MAS 261. Stochastic independence through  $\sigma$ -algebras, Borel-Cantelli lemmas, Kolmogorov 0-1 laws, mean value as Lebesgue integral, basic inequalities, convergence of sequences of random variables, convergence of series of random variables, laws of large numbers, central limit theorems, conditional probability, conditional mean value, introduction to martingales, central limit theorem for martingales.

### MAS 362 Statistics II (7 ECTS)

Asymptotic properties of estimators, asymptotic efficiency, asymptotic normality, introduction to statistical decision theory (minimax estimators, Bayes estimators), asymptotic properties of tests, optimal tests, goodness-of-fit tests, tests of independence. U-statistics.

### MAS 371 Numerical Analysis II (7 ECTS)

Brief revision of the theory of eigenvalues and eigenvectors. Positive definite matrices. Vector and matrix norms. Iterative methods for the solution of linear systems. Gershgorin bounds for eigenvalues. Numerical methods for eigenvalues and eigenvectors. Lagrange interpolation. Hermite interpolation. Divided differences at repeated points. The Newton form of the Hermite interpolation polynomial. Orthogonal polynomials. Gaussian quadrature.

### MAS 401 Measure Theory and Integration (7 ECTS)

General revision: Sets, orderings, cardinality, metric spaces. Measures: Algebras and  $\sigma$ -algebras, additive and  $\sigma$ -additive measures, outer measures, Borel measures

on the real line. Integration: measurable functions, integration of positive functions, integration of complex valued functions, Convergence theorems, modes of convergence, product measures, the  $n$  – dimensional Lebesgue integral, integration in polar coordinates, signed measures, the Radon – Nikodym theorem, complex measures, differentiation on Euclidean space, functions of bounded variation.  $L_p$  Spaces: The basic theory, the dual of  $L_p$ , the useful inequalities, the distribution function, weak –  $L_p$  spaces, interpolation.

### MAS 402 Complex Analysis II (7 ECTS)

Compactness and convergence in the space of analytic functions. The space of meromorphic functions. Riemann mapping theorem. Weierstrass Theorem on entire functions, analytic continuation. Elliptic functions. Riemann surfaces.

### MAS 418 Introduction to Fourier Analysis (7 ECTS)

Periodic functions, trigonometric polynomials, trigonometric series. Fourier series. Convergence of Fourier series. Bessel's inequality. Completeness, Parseval's Theorem. The Riemann-Lebesgue Lemma. Dirichlet's Theorem. Gibbs phenomenon. Differentiation and Integration of Fourier series. Cesaro and Abel summability of Fourier series. Fejer's Theorem. Poisson's Theorem. The Fourier transform and its properties. The inversion theorem and Plancherel's identity. The convolution and its properties. Applications to Partial Differential Equations.

### MAS 425 Group Theory (7 ECTS)

Normal subgroups, homomorphism theorems. Direct and semidirect products. Group actions. Normalizers and centralizers. Sylow theorems and  $p$ -groups. Simple groups. Finitely generated Abelian groups. Composition series and Jordan – Hölder theorem. Soluble groups.

### MAS 431 Introduction to Differentiable Manifolds (7 ECTS)

Differentiable manifolds. Tangent space. Partition of unity. Sard's Theorem. Vector fields, flows. Frobenius theorem. Differential forms. Theorem of Stokes. Theorem of de Rham.

### MAS 451 Linear Models I (8 ECTS)

Simple linear regression model: estimation, confidence intervals, hypothesis testing. Multiple linear regression model: estimation, confidence intervals, hypothesis testing. Goodness of fit, residual analysis and model selection. One and two-way ANOVA.

### MAS 452 Linear Models II (7 ECTS)

**Prerequisite:** MAS 451

Analysis of variance with one or more fixed-effects, Analysis of variance with one or more random factors, analysis of covariance. Generalized linear models: estimation in some examples, logistic regression, asymptotic properties of estimators. Stationary processes, second order moments.

ARMA and ARIMA processes. Maximum likelihood estimation, least square estimators, Yule-Walker estimators. Prediction of stationary processes. Introduction to model selection.

#### **MAS 456 Time Series (7 ECTS)**

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Stationary processes, autocovariance function, spectral density, linear processes, ARMA processes, non-linear processes, ARCH and GARCH processes. Estimation of the mean and of the autocovariance function. Moment estimators, least squares estimators and maximum likelihood estimators of parameters. Asymptotic properties.

**TABLE A: PROGRAMME OF STUDIES IN ECONOMICS**

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
ECO 111 Principles of Microeconomics	7	Five Restricted Electives Courses (5X6)	30
MAS 001 Mathematics I	6		
MAS 061 Statistical Analysis I	6	<b>6th Semester</b>	
CS 003 Introduction to Computer Science	6	Five Restricted Elective Courses (5X6)	30
LAN 100 General Advanced English	5	<b>YEAR TOTAL</b>	<b>60</b>
<b>TOTAL</b>	<b>30</b>	<b>4th YEAR</b>	
<b>2nd Semester</b>		<b>7th Semester</b>	
ECO 121 Principles of Macroeconomics	7	ECO 397 Research Methods in Applied Economics I (ECO 211, ECO 212, ECO 221)	6
ECO 212 Applications of Quantitative Methods in Economics (MAS 061)	7	Three Restricted Electives Courses (3X6)	18
ECO 213 Mathematics for Economists I (MAS 001)	7	Elective Course	5
LAN 101 Academic English	5	<b>TOTAL</b>	<b>29</b>
Elective Course	5	<b>8th Semester</b>	
<b>TOTAL</b>	<b>31</b>	ECO 497 Research Methods in Applied Economics II (ECO 397)	8
<b>YEAR TOTAL</b>	<b>61</b>	Three Restricted Electives Courses (3X6)	18
<b>2nd YEAR</b>		Elective Course	5
<b>3rd Semester</b>		<b>TOTAL</b>	<b>31</b>
ECO 211 Microeconomic Theory (ECO 111)	7	<b>YEAR TOTAL</b>	<b>60</b>
ECO 221 Macroeconomic Theory (ECO 121)	7	<b>GRAND TOTAL</b>	<b>240</b>
ECO 222 Introduction to Econometrics (ECO 212)	7		
ECO 223 Mathematics for Economists II (ECO 213)	7		
<b>TOTAL</b>	<b>28</b>		
<b>4th Semester</b>			
ECO 301 Topics in Microeconomics (ECO 211)	7		
ECO 302 Topics in Macroeconomics (ECO 221)	7		
Restricted Elective Course	7		
LAN 209 Advanced English for Global Communication	5		
Elective Course	5		
<b>TOTAL</b>	<b>31</b>		
<b>YEAR TOTAL</b>	<b>59</b>		

**Note:** The courses in brackets are prerequisites.



**TABLE B: RESTRICTED ELECTIVE COURSES OFFERED BY THE DEPARTMENT  
FOR THE DEGREE IN ECONOMICS**

Students must take at least 11 courses from the list of restricted elective courses of the Department.

	ECTS		ECTS
ECO 303 Econometrics (ECO 222)	7	ECO 320 History of Economic Thought	6
ECO 305 International Trade (ECO 211)	6	ECO 324 Introduction to Political Economy and Public Policy (ECO 211)	6
ECO 306 International Finance (ECO 221)	6	ECO 326 Urban and Regional Economics (ECO 211)	6
ECO 308 Economic Development (ECO 221)	6	ECO 327 Environmental Economics (ECO 211)	6
ECO 309 Economic Growth (ECO 221)	6	ECO 331 Productivity and Technology (ECO 211)	6
ECO 310 Money, Banking and Financial Markets (ECO 221)	6	ECO 355 Topics in International Economics (ECO 211)	6
ECO 311 Labour Economics (ECO 211)	6	ECO 362 Structure and Strategy of Firms (ECO 312)	6
ECO 312 Industrial Organisation (ECO 211)	6	ECO 363 Regulation Theory and Policy (ECO 211)	6
ECO 313 Public Economics (ECO 211)	6	ECO 370 Topics in Financial and Monetary Economics (ECO 111, ECO 221)	6
ECO 315 International Taxation and National Tax Policy (ECO 211)	6	ECO 398 Topics on the Cyprus Economy (ECO 211, ECO 221)	6
ECO 316 Economics of the European Union (ECO 111)	6	ECO 415 Game Theory (ECO 301)	6
ECO 317 Topics in European Economic Integration (ECO 221)	6	ECO 473 Applied Econometrics (ECO 303)	6

**Note:** The list above is indicative and subject to modifications at the beginning of each semester. The number of restricted courses must be such to ensure that the degree requirements are satisfied. In particular, 150 ECTS must be fulfilled by courses in the Department of Economics. Some restricted elective courses may not be offered every year if enrollment is insufficient or if instructors are unavailable.

The courses in brackets are prerequisites.

**TABLE C: RESTRICTED ELECTIVE COURSES FROM OTHER DEPARTMENTS  
FOR THE DEGREE IN ECONOMICS**

**Department of Accounting and Finance Department of Business and Public Administration**

All the elective courses offered by the Department of Accounting and Finance, and by the Department of Business and Public Administration. Certain courses carry prerequisites.

**Department of Mathematics and Statistics**

	ECTS
MAS 007 History of Mathematics	5
MAS 101 Calculus I	8
MAS 102 Calculus II	8
MAS 121 Linear Algebra I	8
MAS 131 Basic Mathematics	7
MAS 261 Probability I (MAS 101, MAS 102)	7
MAS 262 Statistics I	7
MAS 271 Numerical Analysis I	7

**Notes:**

- The courses in brackets are prerequisites.
- The Department may withdraw courses due to staff shortages or low class attendance.  
Restricted Elective Courses include all courses offered by the Department of Economics and selected courses from other departments of the University.  
Free Elective Course can be any course offered by any other department of the University.  
Students are free to decide when to take Restricted or free Elective Courses based on their programme.

- Courses that have more credits than those mentioned above are acceptable, provided that the total number of credits taken does not exceed the permissible limits per semester.
- Undergraduate students of the Department of Economics may take maximum two of the following four graduate courses, given that they have an overall grade of at least 7.5:  
ECO 651 Microeconomic Analysis II (7.5 ECTS)  
ECO 652 Macroeconomic Analysis II (7.5 ECTS)  
ECO 653 Statistics and Econometrics II (7.5 ECTS)  
ECO 673 Applied Microeconometrics (7.5 ECTS)

**TABLE D: REQUIREMENTS FOR A MINOR IN ECONOMICS**

	ECTS		ECTS
<b>BASIC COURSES (42 ECTS)</b>		ECO 315 International Taxation and National Tax Policy (ECO 211)	6
ECO 111 Principles of Microeconomics	7	ECO 316 Economics of the European Union (ECO 111)	6
ECO 121 Principles of Macroeconomics	7	ECO 317 Topics in European Economic Integration (ECO 221)	6
ECO 211 Microeconomic Theory (ECO 111)	7	ECO 320 History of Economic Thought	6
ECO 212 Applications of Quantitative Methods in Economics (MAS 061)	7	ECO 324 Introduction to Political Economy and Public Policy (ECO 211)	6
ECO 221 Macroeconomic Theory (ECO 121)	7	ECO 326 Urban and Regional Economics (ECO 211)	6
ECO 222 Introduction to Econometrics (ECO 212)	7	ECO 327 Environmental Economics (ECO 211)	6
<b>ELECTIVE COURSES (at least 18 ECTS)</b>		ECO 331 Productivity and Technology (ECO 211)	6
ECO 305 International Trade (ECO 211)	6	ECO 355 Topics in International Economics (ECO 211)	6
ECO 306 International Finance (ECO 221)	6	ECO 362 Structure and Strategy of Firms (ECO 312)	6
ECO 308 Economic Development (ECO 221)	6	ECO 363 Regulation Theory and Policy (ECO 211)	6
ECO 309 Economic Growth (ECO 221)	6	ECO 370 Topics in Financial and Monetary Economics (ECO 111, ECO 221)	6
ECO 310 Money, Banking and Financial Markets (ECO 221)	6	ECO 398 Topics on the Cyprus Economy (ECO 211, ECO 221)	6
ECO 311 Labour Economics (ECO 211)	6	ECO 415 Game Theory (ECO 301)	6
ECO 312 Industrial Organisation (ECO 211)	6	ECO 473 Applied Econometrics (ECO 303)	6
ECO 313 Public Economics (ECO 211)	6		

**Note:** Some field courses may not be offered every year if enrollment is insufficient or if instructors are unavailable.  
The courses in brackets are prerequisites.

**TABLE E: PROGRAMME OF STUDY IN INTERNATIONAL,  
EUROPEAN AND ECONOMIC STUDIES**

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
ECO 111 Principles of Microeconomics	7	LAN Second European Language (3rd Level)	5
MAS 001 Mathematics I	6	ECO	6
MAS 061 Statistical Analysis I	6	ECO	6
CS 003 Introduction to Computer Science	6	SPS	6
LAN 100 General Advanced English	5	LAW	6
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>29</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
ECO 121 Principles of Macroeconomics	7	ECO	6
ECO 212 Applications of Quantitative Methods in Economics (MAS 061)	7	ECO	6
ECO 213 Mathematics for Economists I (MAS 001)	7	LAW	6
LAN 101 Academic English	5	AFN/BPA	7
LAN Second European Language (1st Level)	5	One Elective Course	5+
<b>TOTAL</b>	<b>31</b>	<b>TOTAL</b>	<b>30/31</b>
<b>YEAR TOTAL</b>	<b>61</b>	<b>YEAR TOTAL</b>	<b>59/60</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
ECO 211 Microeconomic Theory (ECO 111)	7	ECO 397 Research Methods in Applied Economics I (ECO 211, ECO 212, ECO 221)	6
ECO 221 Macroeconomic Theory (ECO 121)	7	ECO	6
ECO 222 Introduction to Econometrics (ECO 212)	7	ECO	6
HIS (See list of Courses below)	5	AFN/BPA	6
Elective Course	6+	One Elective Course	5
<i>(Students, who wish to pursue the courses LAW 201 and LAW 202 in the third year, are encouraged to take the introductory course LAW 101 Introduction to Legal Method and the Study of Law – 6 ECTS, see list below)</i>		<b>TOTAL</b>	<b>29/30</b>
<b>TOTAL</b>	<b>32</b>	<b>8th Semester</b>	
<b>4th Semester</b>		ECO 497 Research Methods in Applied Economics II (ECO 397)	8
HIS (see list of courses below)	5	ECO	6
LAN 209 Advance English for Global Communication	5	ECO	6
LAN Second European Language (2nd Level)	5	AFN/BPA	6
AFN/BPA (See list of Courses below)	7	One Elective Course	5+
SPS (See list of Courses below)	6	<b>TOTAL</b>	<b>30/31</b>
<b>TOTAL</b>	<b>28</b>	<b>YEAR TOTAL</b>	<b>59/61</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>GRAND TOTAL</b>	<b>240/242</b>



**TABLE F: COMPULSORY COURSES FOR THE DEGREE IN INTERNATIONAL, EUROPEAN AND ECONOMIC STUDIES**

	ECTS
ECO 305 International Trade (ECO 211)	6
ECO 306 International Finance (ECO 221)	6
ECO 315 International Taxation and National Tax Policy (ECO 211)	6
ECO 316 Economics of the European Union (ECO 111)	6
ECO 317 Topics in European Economics Integration (ECO 221)	6

**TABLE G: RESTRICTED ELECTIVE COURSES OFFERED FOR THE DEGREE IN INTERNATIONAL, EUROPEAN AND ECONOMIC STUDIES**

	ECTS		ECTS
<b>Department of Economics</b>		SPS 266 Political System of the European Union	6
<b>Selection of three courses from:</b>		SPS 361 Cyprus and the European Union	6
ECO 301 Topics in Microeconomics (ECO 211) *	7	SPS 362 Politics of the European Union	6
ECO 302 Topics in Macroeconomics (ECO 221) *	7	<b>Department of Law</b>	
ECO 303 Econometrics (ECO 222) *	7	<b>Selection of two courses from following combinations:</b>	
ECO 310 Money, Banking and Financial Markets (ECO 221)	6	LAW 201 European Union Law I*	6
ECO 311 Labour Economics (ECO 211)	6	LAW 202 European Union Law II*	6
ECO 312 Industrial Organisation (ECO 211)	6	or	
ECO 313 Public Economics (ECO 211)	6	LAW 205 Public International Law I	6
ECO 327 Environmental Economics (ECO 211)	6	LAW 206 Public International Law II	6
ECO 355 Topics in International Economics (ECO 211)	6	<i>* Students who wish to pursue the course combination LAW 201 and LAW 202 in the third year are encouraged to take the introductory course LAW101 Introduction to Legal Method and the Study of Law (6 ECTS).</i>	
ECO 363 Regulation Theory and Policy (ECO 211)	6	<b>Elective Courses</b>	
<i>* Students who intend to attend graduate programs in economics are encouraged to take all three courses ECO 301, ECO 302 and ECO 303.</i>		Free Elective Courses should be taken from three different schools whose ECTS add up to at least 20 ECTS.	
<b>Department of Accounting and Finance and Business and Public Administration</b>			
<b>Selection of four courses</b> from all the electives offered by the Department of Accounting and Finance and by the Department of Business and Public Administration. Certain courses carry prerequisites.			
<b>Department of History and Archaeology</b>		<b>Notes:</b>	
<b>Selection of two courses from:</b>		a) The courses in brackets are prerequisites.	
HIS 181 Introduction to European History (1789-1918)	5	b) The Department may withdraw courses due to staff shortages or low class attendance.	
HIS 281 European Diplomatic History, 20th Century	5	Restricted Elective Courses include all courses offered by the Department of Economics and selected courses from other departments of the University.	
HIS 283 European History (1945-1989) (HIS 181)	5	Free Elective Course can be any course offered by any other department of the University.	
HIS 285 Europe 1918-1945: From Versailles to the Fall of Nazi Germany (HIS 181)	5	Students are free to decide when to take Restricted or free Elective Courses based on their programme.	
HIS 290 Institutions of Medieval Europe	5	Courses that have more credits than those mentioned above are acceptable, provided that the total number of credits taken does not exceed the permissible limits per semester.	
<b>Department of Social and Political Sciences</b>		c) Undergraduate students of the Department of Economics may take maximum two of the following four graduate courses given that they have an overall grade at least 7.5 ECTS:	
<b>Selection of two courses from:</b>		ECO 651 Microeconomic Analysis II (7.5 ECTS)	
SPS 152 Comparative Politics	6	ECO 652 Macroeconomic Analysis II (7.5 ECTS)	
SPS 153 International Relations	6	ECO 653 Statistics and Econometrics II (7.5 ECTS)	
SPS 156 European Integration	6	ECO 673 Applied Microeconometrics (7.5 ECTS)	

**TABLE H: DEGREE IN MATHEMATICS AND ECONOMICS**

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
MAS 101    Calculus I	8	MAS 301    Real Analysis	8
MAS 121    Linear Algebra I	8	MAS 350    Stochastic Processes (MAS 261)	7
MAS 131    Basic Mathematics	7	ECO 222    Introduction to Econometrics (MAS 262)	7
ECO 121    Principles of Macroeconomics	7	ECO 223    Mathematics for Economists (MAS 131)	7
<b>TOTAL</b>	<b>31</b>	<b>TOTAL</b>	<b>29</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
MAS102    Calculus II (MAS 101)	8	ECO 301    Topics in Microeconomics (ECO 211)	7
MAS 122    Linear Algebra II (MAS 121)	8	ECO 302    Topics in Macroeconomics (ECO 221)	7
ECO 111    Principles of Microeconomics	7	ECO 303    Econometrics (ECO 222)	7
Elective Course (i.e. computers)	6	MAS/ ECO   Option A1 or B (see list below)	7
<b>TOTAL</b>	<b>29</b>	Elective Course	3
<b>YEAR TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>31</b>
<b>2nd YEAR</b>		<b>YEAR TOTAL</b>	<b>60</b>
<b>3rd Semester</b>		<b>4th YEAR</b>	
MAS 211    Multivariate Differential Calculus	8	<b>7th Semester</b>	
MAS 261    Probability I (MAS 101, MAS 102)	7	MAS/ ECO   Option A2 or B (see list below)	7
ECO 211    Microeconomic Theory (ECO 111)	7	ECO/ MAS   Option B or A2 (see list below)	6
ECO 221    Macroeconomic Theory (ECO 121)	7	ECO        Option B (see list below)	6
<b>TOTAL</b>	<b>30</b>	ECO        Option B (see list below)	6
<b>4th Semester</b>		LAN 100    General Advanced English	5
MAS 202    Multivariate Integral Calculus	8	<b>TOTAL</b>	<b>30</b>
MAS 203    Ordinary Differential Equations	7	<b>8th Semester</b>	
MAS 262    Statistics I	7	ECO/ MAS   Option B or (A3) (see list below)	7
Elective Course	6	ECO/ MAS   Option B or (A3) (see list below)	6
<b>TOTAL</b>	<b>30</b>	ECO/ MAS   Option B or (A3) (see list below)	6
<b>YEAR TOTAL</b>	<b>60</b>	ECO        Option B (see list below)	6
		LAN 101    Academic English	5
		<b>TOTAL</b>	<b>30</b>
		<b>YEAR TOTAL</b>	<b>60</b>
		<b>GRAND TOTAL</b>	<b>240</b>

**TABLE I: DEGREE IN MATHEMATICS AND ECONOMICS**

	ECTS		ECTS
<b>Option A1</b>		<b>Option B</b>	
MAS 302 Complex Analysis I	7	ECO 305 International Trade (ECO 211)	6
MAS 304 Functional Analysis	7	ECO 306 International Finance (ECO 221)	6
MAS 456 Time Series	7	ECO 308 Economic Development (ECO 221)	6
<b>Option A2</b>		ECO 311 Labour Economics (ECO 211)	6
MAS 303 Partial Differential Equations	7	ECO 312 Industrial Organisation (ECO 211)	6
MAS 321 Introduction to Algebra	7	ECO 313 Public Economics (ECO 211)	6
MAS 361 Probability II	7	ECO 415 Game Theory (ECO 301)	6
MAS 371 Numerical Analysis II	7	ECO 473 Applied Econometrics (ECO 303)	6
MAS 451 Linear Models I	8		
ECO 604 Analytical Methods in Economics	7.5		
<b>Option A3</b>			
MAS 304 Functional Analysis	7		
MAS 331 Classical Differential Geometry	7		
MAS 362 Statistical II	7		
MAS 401 Measure Theory and Integration	7		
MAS 402 Complex Analysis II	7		
MAS 418 Introduction to Fourier Analysis	7		
MAS 425 Group Theory	7		
MAS 431 Introduction to Differentiable Manifolds	7		
MAS 452 Linear Models II (MAS 451)	7		
MAS 456 Time Series	7		

**Notes:**

- a) The courses in brackets are prerequisites.
- b) Upon approval of the Chairman of the Department, students may substitute up to two choices in economics with courses from the graduate programme of the Department of Economics.
- c) Students are encouraged to enrol in course MAS 191 (Free Elective Course). Students are advised to take MAS 191 Mathematics with Computers (8 ECTS). Taking any other free elective course with 8 ECTS and another free elective course with 7 ECTS will satisfy the requirements of 15 ECTS from free elective courses, given that the courses are from two different schools.
- d) For the courses in Mathematics and Statistics, students are required to have knowledge of the below:
- MAS 101 Calculus I  
(MAS 101)
- MAS 122 Linear Algebra II  
(MAS 121)
- MAS 261 Probability I  
(Required essential knowledge: MAS 101, MAS 102)
- MAS 350 Stochastic Processes  
(MAS 261)
- MAS 452 Linear Models II  
(Prerequisite: MAS 451)













## FACULTY OF ENGINEERING

Dean:

*Ioannis Giapintzakis*

Deputy Dean:

*Charalambos D. Charalambous*

### DEPARTMENT

- Architecture
- Civil and Environmental Engineering
- Electrical and Computer Engineering
- Mechanical and Manufacturing Engineering



Faculty of Engineering

## ● ● ● ● Department of Architecture

[www.ucy.ac.cy/arch/en](http://www.ucy.ac.cy/arch/en)

### **CHAIRPERSON**

Socrates Stratis

### **VICE-CHAIRPERSON**

Christos Hadjichristos

### **ASSOCIATE PROFESSORS**

Christos Hadjichristos

Marios C. Phocas

Panayiota I. Pyla

Socrates Stratis

### **ASSISTANT PROFESSORS**

Nadia Charalambous

Odysseas Kontovourkis

Aimilios Michael

Maria Philokyprou

Andreas Savvides



## INTRODUCTION

Architecture is inherently related to a wide variety of factors, such as cultural, social, technological, political and economic issues, affecting both people and the environment on many levels. As a result, the Department of Architecture (ARCH) has an important role to play in the production of an architectural culture, the broadening of design knowledge and knowhow, as these are related to the wide variety of factors mentioned above. The Department of Architecture provides high quality education to students and professional architects and pursues engagement with the social construct. Consequently the department of Architecture encourages a dialogue among the various authorities who are directly involved in the production of architecture and the city.

Central to the philosophy of the programme in the study of Architecture, are the synergies achieved through the dynamic synthesis of design emanating both from the humanities and the technological dimensions of Architecture. Such an endeavor takes place by emphasizing the complex and fascinating aspects of the field of Architecture. It also takes place through the formulation of a design culture that takes into account theoretical, historical, political and technological quests to redefine the role of architecture in the making of the artificial environment. Some of the challenges for architect in the academic and professional contexts have to do with claiming a new role with regards to the becoming of contemporary society as well as with their contribution to the manmade environment. At the same time, the Department of Architecture investigates diverse approaches that may contribute to the creation of contemporary architectural practices both with regards to the scale building, as well as the urban and territorial scales.

The Department of Architecture, as an outstanding academic centre of studies in the wider European region, aims at educating students to become successful architects who can perform worldwide, and will have the knowledge and sensitivity to respond effectively to the formulation of the built environment in the eastern Mediterranean region also.

## UNDERGRADUATE PROGRAMME

With design as the common factor in all conceptual subdivisions or categories, the four basic areas of study are: Architectural Theory and History, Architectural Communication Media, Architectural Technology and Urban Design.

The undergraduate programme of studies leads to the acquisition of the Bachelor of Science (B.Sc.) in Architecture, an academic degree and a prerequisite for admission to the subsequent studies required for a professional degree, either the Diploma of Architect-Engineer or the Master of Science (M.Sc.) in Architecture. The programme leading to the B.Sc. in Architecture requires the completion of at least 240 ECTS. From these 240 ECTS, at least 15 ECTS should be elective courses (not included in the student's specialization), which should be taken from two different

faculties of the University, while 10 ECTS should be taken from the programme of Foreign Languages.

The first four semesters introduce the subject through design studios of increasing architectural complexity, that develop the student's analytical and compositional skills, while the studios in the fifth and sixth semester focus on the urban and the technological respectively. A series of satellite courses in the four basic areas mentioned above enable students to accumulate the knowledge needed in order to help them to respond effectively to the complex demands of any design project. The two design studios in the fourth year allow choice on the specific projects undertaken, and together with elective courses, give students the opportunity to pursue a deeper investigation into specific areas of their interest.

## COURSE DESCRIPTIONS

### Compulsory Courses

#### ARH 100 Architectural Design I (10 ECTS)

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Introduction to the basic concepts of Space, Form, Geometry, Proportions, Scale. The specific projects undertaken may not have an architectural scale or be site-specific but will nevertheless aim at encouraging students to understand the complexity of the act of design, while becoming acquainted with different media and means of representation and communication. Studio supervision accompanied with relevant lectures from the instructors.

#### ARH 101 Architectural Design II (10 ECTS)

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##### *Prerequisite: ARH 100*

Investigation and synthesis of Space, Form, Function for a site-specific project, which asks for an Architectural Design within both a social and an environmental context, and with an emphasis on climatic and micro-climatic issues. Problem solving skills. Development of a concept into a physical entity. Description and communication of the proposed scheme, using various media including Architectural Models. Studio supervision accompanied with relevant lectures from the instructors.

#### ARH 110 Architecture in Context (5 ECTS)

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An introductory course offering a panoramic view of the interdisciplinary nature of architecture in time, place and society. Students will be offered a framework within which to effectively place any subsequent information in perspective, while students from other disciplines will have an opportunity to develop a more informed and appreciative way of looking at the work and products of Architectural Design.

#### ARH 111 History of Architecture I (5 ECTS)

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History of Architecture from the Prehistoric period to the Renaissance. Growth and significance of architecture, the impact of developments in technology and construction, the artistic and spiritual ideals of specific civilizations. Concepts of Space and Form in Western and other civilizations.

**ARH 121 Architectural Communication Media II (5 ECTS)****Prerequisite: ARH 124**

The course introduces students to the means of Visual Representation for the concept of performance in architecture. Musical instruments are used as a means to achieve this target. Students are introduced to the cosmos of musical instruments (musicians, orchestra, music, space of performance and rehearsal, etc.). Architectural themes are introduced in parallel through various exercises. Issues of communication, and articulation of various aspects of the architectural project, taking into consideration the factor of time, are examined. The exercises require the use of various methods and means of representation: Freehand Drawing and Models for documenting relations in three-dimensional form.

**ARH 124 Architectural Communication Media I (5 ECTS)**

The course covers both Freehand and Technical Drawing. Sketching and drawing aim at introducing students to the basics of Pictorial Depiction and Visual Communication, while familiarizing them with the basic media. Line Weight and Surface Rendering using Shade and Shadow lead to the study of depth and the use of perspective in sketching the built, as well as the natural environment. The technical part of the course studies the Graphic Techniques for architects. Systems of Projection for plans, elevations and sections, isometric drawings, orthogonal and oblique projections, perspectives.

**ARH 200 Architectural Design III (10 ECTS)****Prerequisite: ARH 101**

Design of a building with a degree of complexity located at a specific site. Use of various design principles. Emphasis is placed on the Concept of Programming and the Use of Space. Students are introduced to the process of creating their own concept, which is translated into the building they design. The Social Framework, Materials, Structural and Construction Methods, context of Insertion are also explored. Lectures support the design studio.

**ARH 201 Architectural Design IV (10 ECTS)****Prerequisite: ARH 200**

Design of a building complex with a specified functional programme. Spatial configuration to accommodate the interaction of various user groups. Site Organization and Contextual Considerations. Research Component, Typologies. Elements of Interior Space, Light, Materials. Environmental considerations. A project of complexity requiring an increasingly holistic approach. Studio supervision accompanied by lectures.

**ARH 210 History of Architecture II (5 ECTS)****Prerequisite: ARH 111**

History of Architecture from 1750 to the present. Analysis of various concepts in architectural theory and practice and their relation to emerging beliefs, political and cultural

transformations and social and technological processes. The role of the Enlightenment and Industrial Revolution in the advancement of Modern Architecture. Subsequent redefinitions of the modern, in different cultural contexts.

**ARH 211 Architecture and Society (5 ECTS)****Prerequisite: ARH 210**

Systematic analysis of the social and cultural dimensions of architecture. The complex relationships of public-private, natural and built environment.

**ARH 220 Digital Architectural Communication Media (5 ECTS)****Prerequisite: ARH 124**

Review of 2-D and 3-D Computer-aided Design Techniques. Generation of architectural drawings for a series of exercises involving design. Drafting, Modelling and Rendering through the use of software. Image Processing. Surface Textures and Lighting Conditions.

**ARH 222 Visual Culture (5 ECTS)**

An investigation into the production/consumption of Images and their complex relationship with society. Oscillating between the Object and the Subject, the viewed is juxtaposed with who does the viewing, when, where and under what circumstances. In this context, images from art, advertisements or films are equally important and relevant as family photos.

**ARH 230 Construction I (5 ECTS)**

Construction Design and Detailing in timber. Introduction to Timber Structures. Structural Systems Classification and basic principles of Skeleton Construction. Structure, exterior walls and openings, foundations, floor and roof conditions. Case studies on manufacture, construction, assembly and historical development of timber as building materials.

**ARH 233 Construction II (5 ECTS)****Prerequisite: ARH 230**

Construction Design and Detailing in reinforced concrete. Properties of concrete, physical composition, manufacture, formwork design. Massive and Skeleton Construction. Structure, Exterior Walls, Storey Slabs. Heat insulation and water proofing, plaster and other finishes. Sound Insulation and Shading Devices. Concrete formation for sun protection and lightweight elements.

**ARH 241 Theory of Urban Design (5 ECTS)**

The course introduces students to the basic characteristics and definitions of the Urban Environment, through cultural and technological issues and relationships between various social forces. A register of contexts, within which the Urban Design is inscribed, is introduced (physical, temporal and pragmatic contexts). An emphasis is placed on the complexity and interdependency of those contexts. With

this approach, theories and actions are presented historically from the industrial period until today. There are references to examples of theory and practice with emphasis on the contemporary period.

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### **ARH 300 Architectural Design V – Urban Design (10 ECTS)**

**Prerequisites:** ARH 201 and ARH 241

The course studies the Urban Design Project and makes use of the theoretical background on Urban Design taught in the previous semester. Looking at the various contexts, in which Urban Design is inscribed (physical, temporal and pragmatic), students are asked to develop strategies based on dynamic relations between analysis and proposal on an in-between scale of action (between building and city scale). Issues related to dynamics between local/translocal, temporary/permanent are significant for the project. Lectures support the design studio.

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### **ARH 301 Architectural Design VI – Architectural Technology (10 ECTS)**

**Prerequisites:** ARH 300, ARH 330, ARH 332 and CEE 133

Architectural Design of a site-specific building of advanced technical requirements leading to 1:1 detailing. Focus on Architectural Technology, with accompanying lectures on the methodology of the integrative approach to design. Preliminary urban investigation, functional requirements and building form. Structure as primary component in Architectural Design, development of design alternatives. Building Envelope, Transparency, Selection of Systems and Materials, Technical Requirements. Integration of Technical Development Systems for environmental control of the interior, energy efficiency.

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### **ARH 310 History and Theory – Contemporary Architecture (5 ECTS)**

New trends and directions in architecture. Critical analysis of the work and vision of leading architects and firms and new challenges in the theory/practice in relationship to technological innovations, epistemologies, aesthetic priorities, environmental concerns, and the changing relationships of global local.

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### **ARH 311 Vernacular Architecture and Contemporary Issues (5 ECTS)**

Examination of urban and rural traditional settlements, with a particular focus on the architectural heritage of Cyprus. Comparisons with vernacular architecture in the broader Mediterranean region, as well as with the contemporary realities of Cyprus. Investigation into the particular social, economic and climatic factors and building techniques that shaped particular architectural expressions. Critical overview of the principles of historic preservation, and consideration of methods for new interventions into an existing fabric.

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### **ARH 313 Architecture and Philosophy (5 ECTS)**

An introduction to basic concepts that are part of Architectural as well as Philosophical Discourse. Emphasis

is placed on parameters such as space, time and form, and the various ways in which these have been viewed by different agents in both fields.

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### **ARH 330 Construction III (5 ECTS)**

**Prerequisite:** ARH 233

Construction Design and detailing in Steel. Metals, Physical Properties, Manufacture, Construction, Assembly. Primary Structure and Integration with Construction Elements. Structural System Classification and Design of Construction Elements and Connections. Building envelope, transparent, metal facade. Glass panes, physical and structural properties, metal sandwich panels, construction connections, cladding, curtain walls. Roof-facade section areas. Opening elements, windows, doors. Interior walls, ceilings, heat and sound insulation. Shading devices.

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### **ARH 331.1 Building Technology (5 ECTS)**

Classifications of building types, functional requirements and building regulations. Structural Planning, Vertical and Horizontal load Bearing Systems, materials, construction, structure-function interaction. Construction Design, non-load-bearing elements (inner walls, ceilings, building envelope, cladding, curtain walls). Technical Development Systems, heating, air conditioning, water supply, electrical, vertical transportation systems. Health and safety considerations.

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### **ARH 332 Technical Development Systems (5 ECTS)**

Introduction to the principles of heat transfer, sound propagation and photoelectric field. Mechanical and Electrical Building Systems for architects. Operating efficiency, analysis and design of Building Supporting Systems, heating, ventilation, air conditioning, plumbing, power distribution, lighting, vertical transportation, acoustics.

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### **ARH 340 Landscape Architecture (5 ECTS)**

Introduction to basic issues of Landscape Design. Natural and manmade parameters are introduced through historical and theoretical references, to demonstrate their influence on the landscape in general and on the garden specifically. Issues of time, topography, scale, vegetation, artificial and natural guide the course outline. Short project exercises on Landscape Design.

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### **ARH 400 Architectural Design VII (10 ECTS)**

**Prerequisite:** ARH 301

Advanced Architectural Design where students are encouraged to examine the programme and analyse the impact it may have on the various aspects of the resulting design. The apparently innocent description of the desired goals and needs is consequently examined, in order to reflect on the paradigm it is based on or the ideology it promotes. Depending on their interests, students have the opportunity to select a specific project approved by the instructor.



**ARH 401 Architectural Design VIII (10 ECTS)****Prerequisite: ARH 400**

Students are asked to research a topic of personal interest, form a programme and develop a design proposal that will be assessed for its soundness regarding all aspects of architecture, for its qualitative and quantitative efficiency, as well as the way in which the thesis is defended.

**ARH 410 Architectural Practice (5 ECTS)**

The history of the profession. The nature of architectural practice, ethics, laws, codes, rules and regulations. The culture of the architectural profession. The architect and the client. The problems of the present and the challenges of the future.

**ARH 411 Advanced Architectural Theory (5 ECTS)**

Defining Architectural Theory, problems and potential developments. Nature of Architectural Parameters and their relationships. Analytic and Normative Theories. Tradition, Reflective Thinking and Theory. Theory and practice. Architectural Hypotheses and Research. Epistemological investigations and the nature of Architectural Knowledge.

**Elective Courses****ARH 402 Special Topics in Architecture I (5 ECTS)**

The subject will vary according to emerging student needs or requests and the educational and research interests of permanent and visiting faculty.

**ARH 403 Special Topics in Architecture II (5 ECTS)**

The subject will vary according to emerging student needs or requests and the educational and research interests of permanent and visiting faculty.

**ARH 412 Architecture and the Critical History of Ecology (5 ECTS)**

How have concepts of "Nature" and "Environment" influenced architectural thought and practice throughout history? Emphasis on the 20th and 21st century debates on environment and sustainability, and the theoretical dimensions of them.

**ARH 413 Modernism – Global Impact (5 ECTS)**

The complex connections between Architectural Modernism and the Politics of Modernization, Decolonization, Urbanization and Globalization around the globe. The course uncovers the transnational dimensions of Modern Architecture and encourages cross-cultural inquiry.

**ARH 420 Portraits of Architecture (5 ECTS)**

The course examines the way architecture is described or presented in literature, art and film. Ideological agendas, cultural norms and stereotypes, paradigms.

**ARH 421 Advanced Computer Aided Design (5 ECTS)****Prerequisite: ARH 220 or Corresponding Course in other Department**

A course on CAD literacy. Animation in CAD, Modelling Concepts, Camera Movements, Lighting Conditions, Special Effect and Digital Editing of animation sequences. CAD as a medium of communication as well as a design tool in architecture.

**ARH 423 Creativity in Architecture through the Fine Arts (5 ECTS)**

The course aims at introducing students to the fine arts domain and reconnecting them to creativity in architecture. Each academic year, the course will focus on different issues, such as scale and measurement of the body in space, colour and creating things in a direct manner.

**ARH 430 Earthquake Resistant Building Design (5 ECTS)****Prerequisite: CEE 133**

Introduction to Earthquake Resistant Structures. Static and Dynamic Excitations, Earthquake Characteristics, Mechanic Properties of buildings, Building form and dimensions, Horizontal Load Bearing Structures, Principles of Earthquake Resistant Design, construction design of Non-load-bearing Elements. New technologies for kinetic buildings with dynamic adaptability, structural control and earthquake isolation.

**ARH 431 Bioclimatic Design (5 ECTS)**

Design of cost-effective, energy efficient buildings. Criteria for optimum exterior/interior environment and for the architectural, mechanical, electrical and building system components. Evaluation of energy conservation methods and renewable energy sources, active and passive solar systems.

**ARH 440 Architecture's Social Practices and their Political Agencies (5 ECTS)**

The study of the public role of architecture in a contemporary globalized everydayness. The role of the architect in expanded groups of action in collaboration with visual artists and urbanists, is also examined. The students become acquainted with different forms of negotiation in regards to the transformation of urban limits into thresholds for exchange in the contemporary city. They realize how architecture could operate as agent beyond physical building. The seminars unfold the political dimension of architecture in peripheral (see contested urban conditions, geographical, urban and social) and students acquire knowledge in urban conditions.

**ARH 441 Contemporary Territorial Transformations and Urban Design (5 ECTS)**

Globalization has added another level of operation to the contemporary city, transgressing the limits between centre and peripheries. The generation of all sorts of networks, visible and invisible, has created complex dynamics

between urban elements, that used to operate only with their local territory, and new elements introduced by the networks. What is the role of the architect and planner in such cases? What methods of analysis of the existing urban conditions can detect such dynamics and how do they inform urban design?

### **General Elective Courses offered to CEE Students**

#### **ARH 123 Civil Engineering Graphics (5 ECTS)**

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Study and application of drawing and other graphic communication techniques for engineers: Systems of Projection for the production of Construction Documents (plans, elevations and sections), Isometric Drawings, Perspective, Freehand Sketching from Technical Drawings, Scaling. Computer-aided Design.

#### **ARH 320 Computer-Aided Design (5 ECTS)**

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Computer-aided Design in an Integrated Digital Environment, 2-D and 3-D Computer-aided Design Techniques, Drafting, Modelling, Rendering of forms and elements, Static Analysis and Structural Design, Project Management.

#### **ARH 331.2 Building Technology (5 ECTS)**

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Classifications of building types, functional requirements and building regulations. Structural Planning, Vertical and Horizontal Load Bearing Systems, materials, construction, structure-function interaction. Construction Design, Non-load-Bearing Elements (inner walls, ceilings, building envelope, cladding, curtain walls). Technical Development Systems, heating, air conditioning, water supply, electrical, vertical transportation systems. Health and safety considerations.

## ANALYTICAL PROGRAMME OF STUDIES

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
ARH 100 Architectural Design I	10	ARH 300 Architectural Design V – Urban Design	10
ARH 110 Architecture in Context	5	ARH 310 History and Theory – Contemporary Architecture	5
ARH 124 Architectural Communication Media I	5	ARH 330 Construction III	5
CEE 130 Structures I	5	ARH 332 Technical Development Systems	5
LAN 100 General Advanced English	5	ARH 340 Landscape Architecture	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
ARH 101 Architectural Design II	10	ARH 301 Architectural Design VI – Architectural Technology	10
ARH 111 History of Architecture I	5	ARH 311 Vernacular Architecture and Contemporary Issues	5
ARH 121 Architectural Communication Media II	5	ARH 313 Architecture and Philosophy	5
CEE 133 Structures II	5	ARH 331.1 Building Technology	5
LAN 102 English for Architecture	5	ARH 4xx Constrained Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
ARH 200 Architectural Design III	10	ARH 400 Architectural Design VII	10
ARH 210 History of Architecture II	5	ARH 410 Architectural Practice	5
ARH 220 Digital Architectural Communication Media	5	ARH 4xx Restricted Elective Course	5
ARH 222 Visual Culture	5	ARH 4xx Restricted Elective Course	5
ARH 230 Construction I	5	Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>8th Semester</b>	
ARH 201 Architectural Design IV	10	ARH 401 Architectural Design VIII	10
ARH 211 Architecture and Society	5	ARH 411 Advanced Architectural Theory	5
ARH 233 Construction II	5	ARH 4xx Constrained Elective Course	5
ARH 241 Theory of Urban Design	5	Elective Course	5
CEE 241 Reinforced Concrete Structures	5	Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>YEAR TOTAL</b>	<b>60</b>
		<b>GRAND TOTAL</b>	<b>240</b>



## ELECTIVE COURSES

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			ECTS				ECTS
Fall Semester				Spring Semester			
ARH 402	Special Topics in Architecture I	5		ARH 403	Special Topics in Architecture II	5	
ARH 412	Architecture and the Critical History of Ecology	5		ARH 413	Modernism – Global Impact	5	
ARH 420	Portraits of Architecture	5		ARH 421	Advanced Computer-Aided Design	5	
ARH 430	Earthquake Resistant Building Design	5		ARH 423	Creativity in Architecture through the Fine Arts	5	
ARH 440	Architecture's Social Practices and their Political Agencies	5		ARH 431	Bioclimatic Design	5	
				ARH 441	Contemporary Territorial Transformations and Urban Design	5	
				CEE 345	Steel Structures	5	

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Faculty of Engineering

## ● ● ● ● Department of Civil and Environmental Engineering

[www.ucy.ac.cy/cee/en](http://www.ucy.ac.cy/cee/en)

### **CHAIRPERSON**

Dimos Charmpis

### **VICE-CHAIRPERSON**

Marina Neophytou

### **PROFESSORS**

Stavroula Pantazopoulou

Panos Papanastasiou

Michalis Petrou

Symeon Christodoulou

### **ASSOCIATE PROFESSORS**

Dimos Charmpis

Ioannis Ioannou

Despo Fatta-Kassinou

Petros Komodromos

Marina Neophytou

### **ASSISTANT PROFESSORS**

Panayiotis Roussis

Dimitrios Loukidis

### **LECTURER**

Loukas Demetriou

## INTRODUCTION

Civil and Environmental Engineering plays a significant role in building a sustainable future for society. The discipline is involved with the design, construction, management and maintenance of the infrastructure on which society relies. In addition to the buildings in which we live and work, the roads and the bridges we use every day, we depend on civil and environmental engineers to provide clean water, energy solutions and waste management, and at the same time to protect the natural environment.

The Department of Civil and Environmental Engineering offers degree programmes at both undergraduate and postgraduate levels. Our students learn in a dynamic environment and have the opportunity to work with and learn from research teams at the forefront of science and technology. The department programmes emphasize fundamental principles, so that our graduates are fully qualified engineers, able and ready to assume leading positions in today's rapidly changing environment with all its problems, challenges and opportunities.

## CAREER OPPORTUNITIES

There are many professional opportunities for Civil and Environmental Engineers in both the private and the public sector. Graduates may pursue careers in design, construction, maintenance, building management and infrastructure, as well as in research and development.

## AREAS OF RESEARCH

Research in the Department of Civil and Environmental Engineering focuses on the following areas:

- Construction Materials
- Structural and Earthquake Engineering
- Construction Management
- Computer-Aided Civil Engineering
- Geotechnical Engineering
- Transportation Systems
- Management of Water Resources
- Environmental Fluid Mechanics
- Solid and Liquid Waste Management
- Environmental Pollution Control
- Environmental Management Systems
- Subsurface Remediation

## UNDERGRADUATE DEGREE PROGRAMME

The Department covers the traditional areas of Civil Engineering such as structures, building materials, earthquake engineering, construction management, geotechnical engineering, transportation and hydraulics, as well as environmental issues such as protection of water resources, air pollution and management of solid and liquid waste. These areas have a direct impact on health and safety, tourism and the local economy. The combination of Civil and Environmental Engineering disciplines in one

department is appropriate, since most of these areas overlap and impact on each other.

The programme of studies at the Department of Civil and Environmental Engineering is based on the European Credit Transfer and Accumulation System (ECTS), which has been adopted by the University.

The programme of studies focuses on giving students a strong foundation in Mathematics, Physics and Mechanics during the first two years; a good grounding in these areas is necessary before undertaking the applied and advanced topics covered in the following years. In their third year, students take applied courses in the field of Civil and Environmental Engineering, while in the fourth year they may choose from a wide array of advanced courses according to their individual interests. Also in the fourth year, students must complete a capstone design project, a comprehensive Civil and Environmental Engineering project that covers a wide spectrum of areas within the discipline.

The degree awarded to successful students is the Bachelor of Science (B.Sc.) in Civil and Environmental Engineering.

## DEGREE RECOGNITION

The degree (B.Sc.) in Civil and Environmental Engineering is fully recognized by the Scientific and Technical Chamber of Cyprus (STCC), enabling the holder to become a member of STCC according to the applicable terms and thus to obtain the professional status and privileges of a Civil Engineer.

## DEGREE REQUIREMENTS

The course of study leading to the B.Sc. degree in Civil and Environmental Engineering requires the completion of at least 240 ECTS, distributed as follows:

- Mandatory Courses (195 ECTS)
- Three Free Elective Courses (15 ECTS)
- Six Restricted Elective Courses (30 ECTS).

The free elective courses are to be taken from at least two different faculties in the University of Cyprus (excluding the Faculty of Engineering); this ensures that students are exposed to different disciplines. The restricted elective courses are specialized and advanced courses in the Department.

Additionally, the six Restricted Elective Courses must be distributed as follows:

- **Three Restricted Elective Courses related to Civil Engineering from the following list:**

CEE 401 Software Development for Engineering Application  
CEE 411 Construction Management II  
CEE 432 Masonry Building Materials  
CEE 441 Advanced Topics on the Design of Steel Structures  
CEE 442 Prestressed Concrete  
CEE 450 Geomechanics  
CEE 451 Engineering Geology



CEE 475 Design of Hydraulic Systems

CEE 496 Advanced Topics in Civil Engineering

CEE 497 Advanced Topics in Civil Engineering

• **Three Restricted Elective Courses related to Environmental Engineering selected from the following list:**

CEE 401 Software Development for Engineering Application

CEE 470 Water Resource Management

CEE 477 Coastal Engineering

CEE 480 Wastewater Management

CEE 483 Transport Processes in Environmental Engineering

CEE 494 Advanced Topics in Environmental Engineering

CEE 495 Advanced Topics in Environmental Engineering

It should be noted that Independent Study (CEE 492 or CEE 493) is offered to exchange programme students only.

In special circumstances and after prior approval by the Undergraduate Committee of the CEE Department, a student may be credited up to 5 ECTS that correspond to restricted elective courses through courses offered by other departments, in addition to the 15 ECTS of the required elective courses, or through a graduate course offered by the Department of Civil and Environmental Engineering.

Within the terms of an exchange programme, and only after approval by the Departmental Board following a written request by the student, an undergraduate student may attend up to two semesters at another University with a study load per semester ranging between 25 and 30 ECTS.

An undergraduate student may be credited up to 120 ECTS for previous undergraduate studies, with the approval of the Undergraduate Committee of the CEE Department, following a justified petition by the student, signed by his/her academic advisor.

## COURSE DESCRIPTIONS

### Compulsory Courses

#### CEE 101 Engineering Mechanics (5 ECTS: 3-0-6)

Principles of Mechanics. Types of loads, structures and supports. Inner and outer products, product of three vectors, moment of force. Collinear, coplanar and parallel forces, calculation of resultant force and moment, body equilibrium, translation and rotation. Determination of support reactions. Calculation of axial force, shear force and moment diagrams in beams. Determination of center of gravity and moments of inertia. Normal and shear stresses and strains, elastic modulus, shear modulus, Poisson's ratio. Distribution of normal and shear stresses in a cross-section.

#### CEE 113 Land Surveying (5 ECTS: 3-2-4)

Introduction. Coordinate Systems. Measurement methods and units. Basic Surveying Equipment. Errors and calculations. Levelling. Control Surveys. Principles of Distance and Angle measurements. Theodolites and their use. Setting out. Earthwork quantities. Topography and

Mapping. Global Positioning Systems (GPS). Geographical Information Systems (GIS). Applications of surveying in the construction industry. Practical exercises on campus: Levelling; Total stations; GPS.

#### CEE 121 Structural Analysis I (5 ECTS: 3-0-6)

Types of Structural Systems. Forces and Types of Loads. Supports. Equations of Static Equilibrium. Free-body Diagrams. Internal forces. Stability and Determinacy of Structures. Complex Structures. Principle of Superposition. Symmetric Structures. Analysis of Determinate Trusses. Stability and Determinacy of Trusses. Method of Joints. Method of Sections. Analysis of Determinate Beams and Frames. Internal forces in plane beams and frames. Bending-moment, shear-force and axial-force curves. Relationship between Load and Internal Forces. Elastic Curve of Beams and Frames. Cables. Arches. Influence lines for determinate trusses, beams and frames. Geometric Methods for Computing Deflections in Determinate Structures.

#### CEE 201 Numerical Methods in Engineering (5 ECTS: 3-0-6)

Computer Arithmetic. Approximation, Round-off and Truncation Errors. Solution of Nonlinear Equations. Solution of Systems of Linear Equations using direct and iterative methods. Matrix Inversion. Solution of Systems of Nonlinear Equations. Matrix Eigenvalues and Eigenvectors. Interpolation using Polynomial Functions and Splines. Least-squares Regression. Numerical Differentiation and Integration. Differential Equations – initial value problems. Software implementation and usage with numerical applications in problems from the area of Civil and Environmental Engineering.

#### CEE 220 Structural Analysis II (5 ECTS: 3-0-6)

##### *Prerequisite: CEE 121*

Differences between Determinate and Indeterminate Structures. Indeterminacy of Structures. Energy Methods for Computing Deflections. The Flexibility Method. Concept of a Redundant. Released Structure. Elastic curve of indeterminate structures. Compatibility Equation. Flexibility Coefficients. Support settlements. Temperature change. Fabrication errors. Elastic supports. Symmetric Structures. Kinematic indeterminacy of structures. Degrees of Freedom. The slope-deflection Method. Free and restrained joints. Slope-deflection Equations. Fixed-end Moments. Stiffness Coefficients. Moment Distribution Method (Cross). Influence lines for indeterminate beams and frames. The Müller-Breslau Principle.

#### CEE 221 Matrix Structural Analysis (5 ECTS: 3-0-6)

##### *Prerequisite: CEE 220*

Introduction to Flexibility Methods. Analysis of Determinate and Indeterminate Trusses and frames with Flexibility Methods. Graphical solution with Flexibility Methods. Stiffness Matrices for springs, bars and beams. Transformation Matrices. Local and Global Coordinate systems. Analysis with the Direct Stiffness Method.

Boundary Conditions. Inclined Supports. Constraints. Graphical solution using the Stiffness Method. Software implementation of the direct Stiffness Method. Elements with member-end releases. Static condensation. Introduction to analysis using a professional structural analysis programme. Inclined supports.

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**CEE 230 Strength of Materials (5 ECTS: 3-0-6)**

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Stress and strain definitions, elastic behaviour of solids. Axial loading. Engineering Beam Bending Theory. Engineering Theory of Torsion. Stress, strain analysis, plane and 3D analysis. Skew Bending. Bending and compression. Shear and torsion of thin-walled cross-sections due to bending. Buckling and stability of beams. Uniaxial elasto-plastic behavior of solids. Elasto-plastic behaviour under axial loading, bending and torsion of beams. Yield and failure: von Mises and Mohr-Coulomb.

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**CEE 231 Construction Materials (5 ECTS: 3-1-5)**

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Introduction to the major materials used in construction. Materials Engineering Concepts. Nature of materials. Physical and mechanical properties of materials. Aggregates. Aggregate properties. Portland Cement. Cement-based materials. Concrete components and microstructure. Properties of fresh and hardened concrete. Strength, durability, and failure mechanisms. Proportioning concrete mixes. Quality control. Special concrete mixes. Steel and other metals. Structural and reinforcing steel. Wood. Masonry. Composites.

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**CEE 232 Strength of Materials' Laboratory (2.5 ECTS: 0-2-3)**

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Introduction. Methods and Standards of testing materials. Material properties and mechanical behaviour. Ductility and Brittleness. Failure Mechanisms. Laboratory Tests: Measurement of dimensions. Tension, compression, hardness, torsion, shear, bending and fatigue tests. Creep, relaxation and impact testing. Non-destructive testing. Sensors and Strain Gauges.

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**CEE 233 Construction Materials - Laboratory (2.5 ECTS: 0-2-3)**

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Aggregate sieve analysis, Density and water absorption of aggregates, Aggregate soundness, Los Angeles test, Micro-Deval test, Concrete mix design, Concreting and curing of concrete specimens, Mechanical properties of hardened concrete.

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**CEE 251 Soil Mechanics (5 ECTS: 3-0-6)**

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Introduction to Soil Mechanics. Soil formation classification and mineralogy. Characteristics and engineering properties of soil: density, strength and deformability, water content, Atterberg limits, permeability and seepage. Sub-surface soil investigation. Soil-water movement. Mechanical behaviour of a soil element. Description of the state of stress at a point in soil. Effective stress, consolidation, and soil strength, Mohr circle. Stress-strain relationships under different loading conditions. Unconfined and triaxial compression. Simple shear and shear strength of a soil

element. Mohr-Coulomb failure criterion. Applications: Slope stability.

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**CEE 253 Soil Mechanics - Laboratory (2.5 ECTS: 0-2-3)**

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Soil Classification Methods. Determination of physical and mechanical properties of soils. Laboratory tests: determination of plasticity and liquidity limits, compaction test, sand cone test, measurement of hydraulic conductivity, direct shear test, consolidation test, triaxial compression test.

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**CEE 270 Fluid Mechanics for Civil and Environmental Engineers (5 ECTS: 3-0-6)**

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***Prerequisite: PHY 134***

Introduction to Fluid Mechanics and its applications. Fluid statics, control volume approach, mass conservation and steady flow momentum equation, Bernoulli's Theorem, curved streamlines. Laminar and turbulent flow, boundary layer, friction in laminar and turbulent flow. First law of thermodynamics; flow heat transfer. Similarity, dimensional analysis, Model Tests.

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**CEE 272 Fluid Mechanics' Laboratory (2.5 ECTS: 0-2-3)**

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***Prerequisite: PHY 134***

Introduction to Health and Safety Issues for Fluid Mechanics experiments. Flow visualisation techniques. Fluid viscosity measurement. Hydrostatic force measurement on inclined surfaces. Measurement of drag force on spheres in settling. Investigation of laminar and turbulent flow characteristics. Investigation of jet impact. Investigation of Bernoulli's Theorem. Measurement of lift and drag in wind tunnel.

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**CEE 310 Construction Management I (5 ECTS: 3-0-6)**

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Selection, operational analysis, utilization and replacement of equipment for civil engineering works. Engineering economy. Project planning, scheduling and controlling. Budgeting, resource and cost allocation, cost control and time-cost trade off analysis of construction projects. CPM/PERT analysis. Health and safety measures during construction. Term project using specialised computer software for construction applications.

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**CEE 320 Dynamics of Structures (5 ECTS: 3-0-6)**

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***Prerequisite: CEE 220***

Dynamic Loading. Inertia Forces. Single-degree-of-freedom systems. Equation of motion. Fundamental Frequency. Stiffness for Linearly Elastic Systems. Damping. Free and forced vibration of single-degree-of-freedom systems. Dynamic response to harmonic, periodic and arbitrary excitations. Numerical evaluation of dynamic response. Earthquake response of Single-degree-of-freedom Linear Systems. Response spectrum. Elastic design spectrum. Free vibration of Multi-degree-of-freedom Systems. Natural frequencies and mode shapes. Mass and stiffness matrices. Forced vibration of Multi-degree-of-freedom Systems. Method of modal superposition. Response Spectrum Analysis.

### CEE 325 Computer-Aided Structural Analysis (5 ECTS: 3-0-6)

**Prerequisites:** CEE 221 and CEE 320

Software implementation of the basic Static and Dynamic Structural Analysis Methods. Construction of Response Spectra. Numerical simulation of shake-table experiments. Computer-based spectral and dynamic analysis of buildings. Usage of structural analysis software for the static and dynamic analysis of structures. Simulations of buildings under earthquake excitations. Foundations and elastic supports. Structural analysis software development. Utilization of specialized structural analysis software and special topics in computer-aided Engineering. Introduction to finite element methods.

### CEE 340 Design of Reinforced Concrete Members (5 ECTS: 3-0-6)

**Prerequisites:** CEE 121 and CEE 230

Introduction to Reinforced Concrete and Design Process. Safety factors and loading. Materials. Flexural design of rectangular and T-Beams. Shear and torsional design. Columns. Interaction diagrams. Laboratory experiments: construction and testing of reinforced concrete beams.

### CEE 341 Design of Reinforced Concrete Structures (5 ECTS: 3-0-6)

**Prerequisite:** CEE 340

Development, anchorage and splicing of reinforcement. Serviceability. Continuous beams and one-way slabs. Moment redistribution. Different types of slabs. Elastic analysis of slabs. Yield line analysis of slabs. Design of slabs. Footings. Deep beams and corbels. Retaining walls. Basic concepts of seismic design of reinforced concrete structures.

### CEE 342 Design of Steel Structures (5 ECTS: 3-0-6)

**Prerequisite:** CEE 230

Introduction to Steel Structures Technology. Iron, steel and aluminum alloys. Properties of structural steels. Methods of welding. Loadings on steel structures. Design criteria. Design of members that are in tension, compression, shear, bending and torsion. Design of steel connections. Static and dynamic analysis of steel trusses and frames. Design of steel structures. Modern steel design codes.

### CEE 353 Foundation Engineering (5 ECTS: 3-0-6)

**Prerequisite:** CEE 251 or CEE 253

Foundation design principles. Selection of foundation type. Bearing capacity and settlements of shallow foundations. Admissible settlements of structures. In-situ tests for the design of foundations. Spread footings, combined footings, beams on elastic foundations, raft foundations. Retaining walls and earth pressure theories. Slope stability. Deep foundations. Piled foundations and construction methods. Bearing capacity and settlements of piles.

### CEE 370 Hydraulics (5 ECTS: 3-0-6)

Fundamental laws of Fluid Mechanics. Fluid properties. Laminar and Turbulent Flows. Basic principles of Hydraulic Engineering. Hydraulic Measurements. Pipe and Open Channel Flows. Water demand and supply.

### CEE 371 Hydrology (5 ECTS: 3-0-6)

Overview of Hydrological Cycle. Precipitation, evaporation, infiltration, runoff analysis, flood routing and the water balance. Statistical procedures in Hydrology. Urban Hydrology. Introduction to mathematical models of medium and large watersheds. Application of hydrology to design of outlet works and flow control structures.

### CEE 381 Introduction to Environmental Engineering (5 ECTS: 3-0-6)

Introduction to Environmental Engineering, technical calculations, Material Balances with a single material, Material Balances with reactions, Energy Fundamentals, Environmental Chemistry, Biogeochemical Cycles, Water Pollutants, Water and Wastewater Treatments, Solid Waste Management.

### CEE 383 Environmental Impact Assessment (5 ECTS: 3-0-6)

Environmental impact assessment from projects and anthropogenic activities. Cyprus and European legislative framework. Methodologies for the estimation of the impact on air, soil, water, flora and fauna. Case studies.

### CEE 400 Earthquake Engineering (5 ECTS: 3-0-6)

**Prerequisite:** CEE 320

Fundamentals of Engineering Seismology. Faults, earthquakes and seismic waves. Accelerograms and characterization of ground motion. Site effects and directivity. Elastic and inelastic response of oscillators. Elastic and inelastic response spectra. Design spectrum. Ductility and strength-reduction factor. Seismic response of Multi-degree-of-freedom Systems using modal response analysis. Principles of earthquake resistant design and Eurocode 8 provisions. Introduction to structural control and seismic isolation. Term project.

### CEE 460 Transportation Engineering (5 ECTS: 3-0-6)

Application of physical laws of motion and energy as they relate to calculations of resistances to motion, power, and energy requirements. Acceleration-Deceleration Limits. Capacity of various Modes of Transportation. Techniques of analysis and planning for transportation services. Demand-supply interactions. Evaluation of transportation alternatives. Integrated Model Systems. Demand estimates for transportation system. Location, design, and operations of transportation facilities. People participation in decision making; proposal writing.



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**CEE 461 Road Design and Construction (5 ECTS: 3-0-6)**

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Theories of Flexible and Rigid Pavement Design. Equivalent wheel loads. Strength tests. Frost and high temperature action. Spatial Design. Methods of Road Tracing and Design. Earthwork: sections, earth movements and distribution. Environmental concerns. Practices in monitoring, maintaining, and rehabilitating flexible and rigid pavement systems.

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**CEE 490 Thesis: Capstone Design Project I (5 ECTS: 1-2-6)**

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**Prerequisites:** *Senior status or advisor's approval, CEE 341, CEE 342, CEE 353, ARH 331*

The project (a two-semester Senior Capstone Design experience in Civil Engineering) is intended to serve as a capstone experience in preparing students to address challenging engineering problems, and requires student collaboration and integration of their engineering knowledge from various thematic areas. In the first semester, a project involving integration of the Civil Engineering subdisciplines will be described and presented. Students will work on preparing engineering design and environmental impact assessment studies for the project. Lectures will be devoted to particulars of the project, presenting specialized topics and specific design applications, that may not have been addressed in other courses.

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**CEE 491 Thesis: Capstone Design Project II (5 ECTS: 1-2-6)**

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**Prerequisites:** *senior status or academic advisor's approval, CEE 310, CEE 490*

This is a continuation of CEE 490. Lecture sessions will be used to present specialized material of relevance to the project(s) assigned and to allow student groups to present progress reports on their work. Each group will be expected to prepare a complete design report, addressing all assigned aspects of the project, with functional design drawings and specifications, environmental studies, construction schedules, cost estimates, and health and safety plans. All projects will include a written report, and they will be orally presented and defended. The projects must be of sufficient depth and incorporate the state-of-the-art in the subject topics.

### Restricted Elective Courses

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**CEE 401 Software Development for Engineering Application (Open Elective Course) (5 ECTS: 3-0-6)**

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**Prerequisite:** *CS 033 or equivalent*

Introduction to Computer-aided Engineering. Object-oriented Software Design and Development for engineering applications, using C++, Java, or/and C#. Software implementation of common numerical methods and algorithms. Usage of data structures and databases in Engineering Modelling, Visualization and Internet Computing. Modern methodologies for designing and developing engineering simulators. Term project:

Implementation of a software solution that addresses a practical engineering problem.

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**CEE 411 Construction Management II (5 ECTS: 3-0-6)**

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**Prerequisite:** *CEE 310*

Construction contracts. Conflict resolution and negotiations. Organization and administration. Planning, estimating, control and risk assessment. Quantity surveying. Labor and equipment estimates. Estimating excavation and concrete. Tender preparation. Software Packages for Project Management. Accounting and control. Economic evaluation of construction projects. Construction Finance. Fully Integrated and Automated Project Processes (FIAPP). Term project: proposal preparation, where students use contract documents and software tools.

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**CEE 432 Masonry Building Materials (5 ECTS: 3-0-6)**

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Building Stones: classification, selection, factors affecting durability and weathering, porosity, capillary absorption, measurement of physiomechanical properties, preventive and remedial measures, Cyprus building and decorative stones. Mortars and Renderings: plasters, limes, typical mix proportions, specification of plaster and render mixes for special applications, effect of w/b ratio and binder content, hydraulic and non-hydraulic binders and mortars. Concrete Blocks and Bricks: aggregate blocks, AAC blocks, manufacture, classification and use, strength, quality, thermal properties, drying shrinkage, durability. Ceramics: clay bricks, clay and shale consultants, brick forming and firing, properties of bricks, problems, moisture expansion, durability, designation. Adobe and Mud Bricks: pathology and deterioration problems.

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**CEE 441 Advanced Topics on the Design of Steel Structures (5 ECTS: 3-0-6)**

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**Prerequisite:** *CEE 342*

Torsional, lateral, and lateral-torsional buckling of steel elements. Elastic and inelastic stability of steel frames. Design of steel members and structures against buckling. Composite members and their connections. Methods of construction and erection. Maintenance and fire protection. Integrated design of Steel Structures. Term project.

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**CEE 442 Prestressed Concrete (5 ECTS: 3-0-6)**

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**Prerequisite:** *CEE 340*

Basic concepts of prestressed concrete. Materials and systems for prestressing. Load balancing method. Prestress losses. Flexural analysis. Flexural, shear, and torsional design. Anchorage systems. Indeterminate prestressed concrete beams. Concordant tendons. Camber, deflection, and crack control. Precast concrete concepts.

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**CEE 450 Geomechanics (5 ECTS: 3-0-6)**

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**Prerequisite:** *CEE 251*

Site exploration and in-situ testing: Standard Penetration Test (Spt), Cone Penetration Test (Cpt), Pressuremeter Test.

Critical State Theory – advanced topics in soil behavior. The finite element method in Geotechnical Engineering. Ground improvement: preloading, drains, compaction, soil replacement, stone columns, grouting. Reinforced earth retaining walls. Slope stabilization – anchors. Deep excavations Expansive Soils. Term project using finite element software.

#### **CEE 451 Engineering Geology (5 ECTS: 3-0-6)**

**Prerequisite:** CEE 251 or CEE 253

Origin and composition of rocks. Geology of Cyprus. Geomorphology and Geological Structures. Engineering properties of rocks. Mechanical behavior of rocks discontinuities. Rock Mass Classification Systems. Mechanical behavior of rocks mass. Hoek & Brown failure criterion. Rock slope stability – landslides. Rock mass permeability. Permeability field testing. The role of Geology in the design and construction of dams and tunnels.

#### **CEE 470 Water Resource Management (5 ECTS: 3-0-6)**

**Prerequisites:** CEE 370 and CEE 371

Water demand and supply. Distribution systems. Collection, transportation and storage of water resources. Pipe networks and pumps. Reservoirs and dams. Control of water resources by natural system functions, user actions, and influence of social, economic, and political institutions. Water resource policies. Case studies (e.g., flood/drought management).

#### **CEE 475 Design of Hydraulic Systems (5 ECTS: 3-0-6)**

**Prerequisites:** CEE 370 and CEE 371

Design of Water Supply and Sewage Systems: Drinking water quality. Design flow estimation. Population forecasting. Water sources. Water intakes. Water conveying and containment systems. Pump systems – operating points, similarity, cavitation. Reservoir balance. Design of water distribution networks. Appurtenances and special devices of networks. Waterhammer and other transient phenomena. Wastewater and stormwater collection systems – design flows, general layout, hydraulic computations. Pipe materials, quality issues. Design of Irrigation and Drainage Systems: Origin and quality of irrigation water. Soil properties, soil moisture. Flow equation, infiltration. Plant water demands – evapotranspiration, photosynthesis. Rainfall and water balance. Design flows. Distribution systems – surface irrigation, spraying, drip irrigation; general layout, hydraulic computations. Economic optimisation. Drainage and flood control.

#### **CEE 477 Coastal Engineering (5 ECTS: 3-0-6)**

**Prerequisites:** CEE 370 and CEE 371

Hydrodynamic Processes in the Coastal and Nearshore Regions. Waves, Tides and Currents. Morphology and Modification of Shoreline. Protection and Restoration of Coastal Areas. Design of Coastal and Maritime Structures. Coastal and Maritime Structures Management.

#### **CEE 480 Wastewater Management (5 ECTS: 3-0-6)**

Constituents in wastewater, analysis and selection of wastewater flow rates and constituent loadings, process analysis, physical-chemical-biological unit operations, fundamentals of biological treatment, advanced treatment methods.

#### **CEE 483 Transport Processes in Environmental Engineering (5 ECTS: 3-0-6)**

**Prerequisite:** CEE 270

Fundamentals of Pollutant Transport Mechanisms (advection, diffusion, dispersion) related to air, water and ground media. Gaussian Plume Dispersion Models, Lagrangian diffusion, Taylor's dispersion. Air/Water Quality assessment; environmental design and Mitigation Strategies. Heat transfer and energy considerations for building design.

#### **CEE 492 Independent Study (5 ECTS: 0-0-10)**

**Prerequisite:** academic advisor's approval

Individual study, research or laboratory investigation under faculty supervision.

#### **CEE 493 Independent Study (5 ECTS: 0-0-10)**

**Prerequisite:** academic advisor's approval

Individual study, research or laboratory investigations under faculty supervision.

#### **CEE 494 Advanced Topics in Environmental Engineering (5 ECTS: 3-0-6)**

Advanced and contemporary topics of special interest in Environmental Engineering (Fall Semester).

#### **CEE 495 Advanced Topics in Environmental Engineering (5 ECTS: 3-0-6)**

Advanced and contemporary topics of special interest in Environmental Engineering (Spring Semester).

#### **CEE 496 Advanced Topics in Civil Engineering (5 ECTS: 3-0-6)**

Advanced and contemporary topics of special interest in Civil Engineering (Fall Semester).

#### **CEE 497 Advanced Topics in Civil Engineering (5 ECTS: 3-0-6)**

Advanced and contemporary topics of special interest in Civil Engineering (Spring Semester).

## Elective Courses for the Department of Architecture

### CEE 130 Structures I (5 ECTS: 3-0-6)

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Introduction to the Principles of Statics. Force Equilibrium. Plane simple structures, synthesis, support, reactions, compound structures. Statically determined trusses: method of joints, method of sections, internal forces and moments in slender beams and statically determined systems. Longitudinal load, shear and bending moment diagrams. Analysis of indeterminate beam systems. Equilibrium and the principle of virtual work, the kinematical method. Deformations.

### CEE 133 Structures II (5 ECTS: 3-0-6)

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#### *Prerequisite: CEE 130*

Methods of analysis of Simple Indeterminate Systems: trusses, frames, parabolic arch, flexible suspension cables. Strength of materials (masonry, reinforced concrete, steel, timber) and preliminary stress design. Basic terms of elasticity, uniform distributed stresses for tension, compression, bending, shear and torsion, diagrams of internal forces and design factors.

### CEE 241 Reinforced Concrete Structures (5 ECTS: 3-0-6)

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#### *Prerequisite: CEE 133*

Introduction to Reinforced Concrete Structures. Basic terms in reinforced concrete, mechanic properties. Design of storey slabs, beams, columns and walls, construction requirements. Prestressed concrete, foundations. Term project on the design of a Reinforced Concrete Structure, integrated with ARH 201.

### CEE 345 Steel Structures (5 ECTS: 3-0-6)

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#### *Prerequisite: CEE 133*

Introduction to Steel Structures. Structural System Classification and Design of Construction Elements and Connections. Fire protection. Steel-concrete Composite Structures, storey slabs. Design exercises involving Steel Structures.



## ANALYTICAL PROGRAMME OF STUDIES

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
CEE 101 Engineering Mechanics	5	CEE 310 Construction Management I	5
MAS 025 Mathematics for Engineers I	5	CEE 320 Dynamics of Structures	5
MAS 029 Elements for Linear Algebra	5	CEE 340 Design of Reinforced Concrete Members	5
PHY 134 Physics for Engineers	5	CEE 342 Design of Steel Structures	5
CS 033 Introduction to Programming or Electrical and Computer Engineers	5	CEE 370 Hydraulics	5
LAN 100 General Advanced English	5	CEE 381 Introduction to Environmental Engineering	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
ARH 123 Computer-aided Technical Drawing	5	ARH 331 Building Technology	5
CEE 113 Land Surveying	5	CEE 325 Computer-Aided Structural Analysis	5
CEE 121 Structural Analysis I	5	CEE 341 Design of Reinforced Concrete Structures	5
MAS 026 Mathematics for Engineers II	5	CEE 353 Foundation Engineering	5
LAN 104 English for Technical Purposes	5	CEE 371 Hydrology	5
MAS 030 Introduction to Probabilities and Statistics	5	CEE 383 Environmental Impact Assessment	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
CEE 220 Structural Analysis II	5	CEE 400 Earthquake Engineering	5
CEE 230 Strength of Materials	5	CEE 460 Transportation Engineering	5
CEE 232 Strength of Materials - Laboratory	2.5	CEE 490 Thesis: Capstone Design Project I	5
CEE 270 Fluid Mechanics for CEE	5	CEE xxx Restricted Elective Course	5
CEE 272 Fluid Mechanics Laboratory	2.5	CEE xxx Restricted Elective Course	5
MAS 027 Mathematics for Engineers III	5	CEE xxx Restricted Elective Course	5
Elective Course	5	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>	<b>8th Semester</b>	
<b>4th Semester</b>		CEE 461 Road Design and Construction	5
CEE 201 Numerical Methods in Engineering	5	CEE 491 Thesis: Capstone Design Project II	5
CEE 221 Matrix Structural Analysis	5	CEE xxx Restricted Elective Course	5
CEE 231 Construction Materials	5	CEE xxx Restricted Elective Course	5
CEE 233 Construction Materials - Laboratory	2.5	CEE xxx Restricted Elective Course	5
CEE 251 Soil Mechanics	5	Elective Course	5
CEE 253 Soil Mechanics - Laboratory	2.5	<b>TOTAL</b>	<b>30</b>
Elective Course	5	<b>YEAR TOTAL</b>	<b>60</b>
<b>TOTAL</b>	<b>30</b>	<b>GRAND TOTAL</b>	<b>240</b>
<b>YEAR TOTAL</b>	<b>60</b>		

## ELECTIVE COURSES

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ECTS			ECTS		
Fall Semester			Spring Semester		
CEE 401	Software Development for Engineering Applications	5	CEE 411	Construction Management II	5
CEE 432	Masonry Building Materials	5	CEE 441	Advanced Topics in the Design of Steel Structures	5
CEE 442	Prestressed Concrete	5	CEE 450	Geomechanics	5
CEE 451	Engineering Geology	5	CEE 475	Design of Hydraulic Systems	5
CEE 470	Water Resource Management	5	CEE 480	Wastewater Management	5
CEE 477	Coastal Engineering	5	CEE 483	Transport Processes in Environmental Engineering	5
CEE 492	Independent Study	5	CEE 493	Independent Study	5
CEE 494	Advanced Topics in Environmental Engineering	5	CEE 495	Advanced Topics in Environmental Engineering	5
CEE 496	Advanced Topics in Civil Engineering	5	CEE 497	Advanced Topics in Civil Engineering	5



Faculty of Engineering

## ● ● ● ● Department of Electrical and Computer Engineering

[www.ucy.ac.cy/ece/en](http://www.ucy.ac.cy/ece/en)

### **CHAIRPERSON**

Georgios Ellinas

### **VICE-CHAIRPERSON**

Elias Kyriakides

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Charalambos D. Charalambous

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Constantinos Pitris

### **ASSISTANT PROFESSORS**

Marcos Antoniadis

Ioannis Krikidis

Georgios Mitsis

Chrysostomos Nicopoulos

Theocharis Theocharides



## INTRODUCTION

Electrical and Computer Engineering (ECE) is a key discipline, at the heart of the technology frontier. It concerns the design and analysis of electrical, magnetic, and optical devices, and the processing, control, and transmission of information and energy. The tools used in electrical and computer engineering include electrical, electromagnetic, and optical phenomena, systems theory, and computational hardware and software.

Electrical Engineering is a broad field, that covers many diverse areas of study, such as microelectronics, digital communications, wireless systems, photonic systems, power systems, signal processing, computer technology, microprocessors, automation and feedback control, neural networks, and electronic devices' design and fabrication. Computer Engineering is the science and technology of design, implementation, and maintenance of the hardware and software components of modern computing systems and computer-controlled equipment. Computer engineers are solidly grounded in the theories and principles of computing, mathematics and engineering, and apply these theoretical principles to the design of hardware, software, networks, and computerized equipment and instruments, to solve technical problems in diverse application domains. Students and faculty in Electrical and Computer Engineering also develop synergies with disciplines outside engineering; for example, with medicine and the life sciences, which can lead to education and research in Biomedical Engineering.

## CAREER OPPORTUNITIES

The job opportunities for electrical and computer engineers are many, and it is anticipated that there will be even more in the future, as technology pushes into new frontiers. Electrical and computer engineers work in industry, private practice, government agencies, and education and research organizations, performing functions that include research and development, planning, designing, operating and maintaining a variety of electrical and computing apparatus and systems. They also test equipment, solve operating problems, and estimate the time and cost of projects. Besides manufacturing, research, development and design, many are employed in administration and management or technical sales.

## UNDERGRADUATE PROGRAMMES OF STUDIES

The mission of the Department of Electrical and Computer Engineering is to provide a comprehensive, state-of-the-art education that prepares students for success in engineering practice and/or advanced studies. The Department's graduates command the fundamentals of Electrical and Computer Engineering and acquire in-depth knowledge in one or more specialization areas. The Department's objectives are met through programmes of study, that consist of basic mathematics and science courses, core courses that promote ECE fundamentals, and technical electives that provide in-depth specialization in

various technological areas. The programmes encourage a balanced mixture of theoretical and experimental work.

The Department offers the following two undergraduate degrees:

- Bachelor of Science (B.Sc.) in Electrical Engineering
- Bachelor of Science (B.Sc.) in Computer Engineering

The programme of studies is based on the European Credit Transfer and Accumulation System (ECTS). This system facilitates pan-European recognition of programmes of study and qualifications, and is a tool for establishing and securing transparency, as well as a means for building communication and cooperation among institutions, while simultaneously broadening the educational choices of students. Roughly, an ECTS unit corresponds to a student workload of 25-30 hours (including lectures, tutorials, labs, projects, etc.). To obtain a B.Sc. degree in Electrical or Computer Engineering, at least 240 ECTS are required. These are distributed primarily among basic science courses, ECE core and elective courses, and a senior design project, but also include some language and free elective courses, as shown in the tables that follow. Required science courses include mathematics, physics, computer science, and management. General free elective courses must be taken from at least two different faculties of the University of Cyprus and must not be related to the student's programme of study.

Students are admitted to either the Electrical Engineering Degree Programme, or the Computer Engineering Degree Programme. The first and second years of the Electrical Engineering (EE) and Computer Engineering (CE) programmes are closely related, having all but one course in common. During the first two years, the programme of study is structured to provide students with a rigorous body of knowledge in mathematics, physics, and electrical engineering fundamentals, which is essential to achieve a deep understanding of more advanced electrical engineering topics. In the third year, depending on their degree programme, students receive training in more advanced but fundamental topics in Electrical or Computer Engineering. In the fourth year, students have the flexibility to select elective courses from a variety of specialization areas, according to their individual interests. In addition, the fourth year also includes a capstone design project (senior design thesis) or a capstone design course, which students select from a variety of categories and undertake with the guidance of a faculty member. These courses are available to students in their final year of study (eligible students must have accumulated at least 168 ECTS). Students, who opt to take the Capstone Design Project as an alternative to the Capstone Design Course, must have a GPA above 7.5; alternatively, they must find a faculty member who will work with them and secure approval from the Departmental Council. The capstone design project/course is intended to prepare students to address challenging engineering problems; it requires integration of electrical and computer engineering knowledge, accumulated over the previous years of study.

## ECE Core Electives

Third-year students are required to take (depending on their programme of study) at least one or two restricted ECE Core Elective Courses (6 ECTS each). These courses are chosen from a list of predetermined ECE Core Electives, in consultation with their academic advisor; their purpose is to introduce and solidify the fundamentals of Electrical and Computer Engineering, and to prepare students for their specific study direction (chosen in the fourth year).

### EE Students must take at least one core elective course from the following course list:

- ECE 307 Digital Integrated Circuits
- ECE 318 Programming Principles for Engineers
- ECE 325 Iterative Methods
- ECE 330 Power Systems & Materials Fundamentals
- ECE 333 Photonics
- ECE 360 Computer Networks
- ECE 370 Introduction to Biomedical Engineering

### CE Students must take at least two core elective courses from the following course list:

- ECE 307 Digital Integrated Circuits
- ECE 318 Programming Principles for Engineers
- ECE 326 Dynamic Systems and Control
- ECE 359 Introduction to Communication Systems
- ECE 370 Introduction to Biomedical Engineering

## AREAS OF CONCENTRATION

In the fourth year of the Electrical and Computer Engineering curriculum, students are required to select one area (or more) of concentration, according to their academic interests. Specifically, students are required to take six Technical Elective Courses (36 ECTS), including three courses from the same area of concentration.

The areas of concentration for Electrical Engineering are the following:

- Communication Systems and Networks
- Biomedical Engineering
- Electric Energy Systems
- Intelligent Systems and Control
- Waves, Antennas and Optics

The areas of concentration for Computer Engineering are the following:

- Computer Hardware and Embedded Systems
- Intelligent Systems and Robotics
- Computer Networks
- Biomedical Engineering

## COURSE DESCRIPTIONS

### Compulsory Courses

#### ECE 100 Introduction to Design and Engineering (5 ECTS)

This course covers the following topics: engineering basics and design principles, various ECE programmes of study, problems that electrical and computer engineers are asked to solve, and the methods used to solve engineering problems. The course also provides information on engineering ethics, social implications, intellectual property, project management, and teamwork. Basic electronics and computing skills are taught, as well as library skills and website design.

#### ECE 101 Introduction to Design and Engineering Laboratory (2 ECTS)

This is a laboratory course in which students learn engineering basics and design principles, project and time management, and teamwork. Basic electronics, technology and computing skills are taught. Students are asked to solve an engineering problem, usually by designing and implementing a system both in hardware and software. This system must meet given specifications and must perform a specified task. The engineering problem usually involves a robot design, implementation and programming, and a robotics competition.

#### ECE 102 Electrical Circuits and Networks (7 ECTS)

Circuit models: KCL and KVL, mesh current and voltage analysis. Thévenin and Norton equivalent circuits. Network theorems: one-port and two-port networks, sinusoidal steady-state analysis and transient analysis of first- and second-order networks, response to exponential driving functions, power considerations.

#### ECE 105 Engineering Analysis and Modeling (7 ECTS)

This course provides the mathematical foundations for modeling and analysis of engineering systems. Topics include: mathematical modeling, transformations, approximation, utilization of complex numbers for the analysis of electric circuits, fault analysis and errors, and basic principles for statistical analysis. There is also an introduction to the principles of programming (MATLAB) and applications.

#### ECE 202 Electronic Device Principles and Circuit Modeling (5 ECTS)

##### *Prerequisite: ECE 102*

Semiconductor conduction, energy bands and carrier statistics, p-n junction diodes, LEDs, photodiodes, MOSFET structure and principles of operation, bipolar junction transistor structure and principles of operation. Large and small signal models, low-frequency and high-frequency device models. Integrated device fabrication.

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**ECE 203 Circuits and Measurements Laboratory (5 ECTS)**

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**Prerequisite: ECE 102**

Introduction to experimental electrical measurements and circuits. Use of common instruments for the generation and measurement of current, voltage, resistance, capacitance, and inductance. Familiarization with the measurement practices in circuits and application of basic circuit theorems (Ohm, Kirchhoff, and Dividers). Understanding the source of errors and noise in electrical measurements and the difference between theoretical values and experimental measurements. Experimental application of alternating current (AC) circuit theory (RC and RLC). Measurement of maximum power transfer and frequency response.

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**ECE 205 Electronic Devices and Circuits I (5 ECTS)**

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**Prerequisite: ECE 102**

Semiconductor materials: p-n junction, diode circuits, DC and AC diode circuit analysis. Diode circuits, bipolar junction transistor, basic BJT amplifiers. Field effect transistors (FET): MOSFET DC analysis, MOSFET applications, junction field effect transistor. Basic FET amplifier: MOSFET amplifier, common source amplifier, source follower amplifier, amplifiers with MOSFET load devices, multistage amplifiers, basic JFET amplifiers. FET digital circuits: NMOS inverters and logic circuits, CMOS inverters and logic circuits, transmission gates, shift registers and flip-flops. Bipolar digital circuits: Diode-transistor and transistor-transistor logic, Schottky transistor-transistor logic.

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**ECE 210 Digital Logic Design (5 ECTS)**

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Digital systems and information representation; Arithmetic operations, decimal and alphanumeric codes. Binary logic, Boolean algebra (identities, functions and manipulation), standard forms, simplification. Logic gates, switch-level and CMOS implementation, integrated circuits. Combinational logic design: circuits (gate level), design hierarchy and procedures, Computer-aided design. Two-level and multi-level implementations. Arithmetic (add, subtract, multiply) and other popular modules (multiplexers, encoders, decoders). Sequential logic design: latches, flip-flops, state machines design and minimization (Mealy and Moore models), design problems. Registers and counters. Memory and programmable logic design. Language-directed combinational and sequential design (VHDL). Introduction to register-level design: data path and control, basic computer architecture.

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**ECE 211 Digital Systems Laboratory (3 ECTS)**

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**Co-requisite: ECE 210**

The laboratory experiments involve the design and testing of digital systems, using small- and medium-scale integrated circuits. Students are exposed to design with both discrete components and CPLD/FPGA-based system boards. Computer-aided design tools and hardware description programming language (VHDL) are used extensively for design, simulation, and verification.

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**ECE 212 Computer Organization and Microprocessors (5 ECTS)**

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**Prerequisites: ECE 210, ECE 211 and CS 034**

Introductory course on modern computer architecture, focusing on the visible programmer aspects of the machine and their corresponding implementation. Topics include: data representation in digital computers, the stored program concept, addressing modes, instruction formats and instruction sets, data path and control unit design, hardwired and micro-programmed control, memory components and the memory hierarchy, computer structure, central processing unit, machine language, VHDL programming, introduction to microprocessors and their uses, the special features of microprocessors (stack, interrupts, input ports, output ports, and displays), performance analysis and comparison, benchmarking and performance metrics.

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**ECE 213 Computer Organization and Microprocessors Laboratory (3 ECTS)**

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**Co-requisite: ECE 212**

Hands-on experience with data representation in digital computers, the stored program concept, addressing modes, instruction formats and instruction sets, data path and control unit design, hardwired and micro-programmed control, memory components and the memory hierarchy, computer structure, central processing unit, machine language, VHDL programming.

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**ECE 220 Signals and Systems I (6 ECTS)**

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**Prerequisite: MAS 026**

Continuous and discrete-time signals and systems, ideal signals in continuous and discrete-time, system properties, linear time-invariant systems, impulse response, convolution in continuous and discrete time, description of systems with linear differential equations, eigenfunctions of linear, time-invariant systems, Fourier series for periodic continuous-time signals, Fourier transforms for periodic and aperiodic continuous time signals, analysis of linear-time invariant systems with the Fourier transform, frequency response and continuous-time filters, Bode diagrams, Laplace transform.

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**ECE 221 Signals and Systems for Computer Engineers (6 ECTS)**

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**Prerequisite: MAS 026**

Basic continuous and discrete-time signals in linear vector spaces, impulse functions, basic properties of discrete and continuous linear time-invariant (LTI) systems, difference and differential LTI systems. Analysis of LTI single-loop feedback systems via transform techniques. Discrete-time Fourier series, discrete-time Fourier transform, and Z transform. Time and frequency analysis of discrete-time LTI systems, sampling systems, application of continuous and discrete-time signal theory to communication systems, digital control systems, and signal processing.



**ECE 224 Introduction to Random Signals and Systems (5 ECTS)**

Basic probabilistic models. Conditional probability and Bayes' rule. Random variables and vectors, distribution and density functions, expectation and characteristic functions. Statistical independence, law of large numbers, central-limit theorem. Introduction to random processes; second-order processes. Linear systems subject to random processes' inputs; Power spectral density.

**ECE 305 Electronic Devices and Circuits II (5 ECTS)**

**Prerequisite:** ECE 205

Amplifier analysis and frequency response. Frequency response of transistor amplifiers, bipolar transistors, FET and high frequency response of amplifier circuits. Basic electronic circuits: power transistor, classes of transistors and push-pull transistors. Basic operational amplifier circuits: Ideal op-amp, inverter and non-inverting amplifiers, summing amplifier, op-amp applications and circuit design. Current sources and circuits with active loads, small signal analysis. Differential and multistage amplifiers: Basic BJT and FET differential pair, differential amplifier with active load, BiCMOS circuits, gain stage and simple output stage, differential amplifier frequency response. Op-amp circuits: Bipolar, BiCMOS, JFET, CMOS, voltage regulators, etc.

**ECE 306 Electronic Devices and Circuits Laboratory (5 ECTS)**

**Prerequisite:** ECE 305

Laboratory experiments involving basic diode characteristics; analysis and design of electronic circuits, differential amplifiers, power amplifiers, feedback amplifiers and BIPOLAR digital circuits.

**ECE 311 Discrete Analysis and Structures (6 ECTS)**

Function and set operations, sequences and summations, proportional logic, predicate logic, rules of inference, methods of proof, principle of induction, relations, graphs, graph algorithms, trees, combinations, recursion, recurrence relations.

**ECE 312 Computer Architecture (5 ECTS)**

**Prerequisite:** ECE 212

This course is a continuation of the architectural concepts presented in ECE 212. Topics include: high-performance processor design (data path and control), pipelining (data path, control, hazards and exceptions, performance), memory hierarchy (caches, virtual memory), interfacing processors and peripherals (memory, I/O, bus protocols), parallel processors, shared memory multiprocessors and coherence protocols.

**ECE 313 Engineering of Operating Systems (5 ECTS)**

**Prerequisite:** CS 035

An introduction to modern operating systems, and examination of the services and abstractions commonly provided by operating systems, followed by study of the

underlying mechanisms used to implement them. Topics include: process management, scheduling, and synchronization; Inter-process communication; Memory management (basic, virtual, page replacement algorithms); Input/output and file systems, deadlocks, Unix/Linux operating system, distributed operating systems and distributed file systems. Programming assignments and case studies are used to illustrate the fundamental concepts.

**ECE 314 Computer Architecture Laboratory (3 ECTS)**

**Prerequisites:** ECE 210, ECE 211, ECE 212 and ECE 213

**Co-requisite:** ECE 312

This lab provides a hands-on introduction to the architecture and micro-architecture of modern microprocessors. Through implementation of a 5-stage RISC processor using HDL language and functional simulation, students apply architectural and micro-architectural fundamentals to understand the impact on the performance of the microprocessor. Students analyse and evaluate the performance of basic architectural principles employed in the design of RISC Processors, and evaluate how instruction level parallelism is applied in a design laboratory.

**ECE 316 Operating Systems and Networks Laboratory (3 ECTS)**

**Prerequisites:** CS 034, CS 035

**Co-requisites:** ECE 313, ECE 360

This course consists of the design and commission of large computer systems, including hardware and software systems. Ethical, social, economic, safety and legal issues are covered. Upon completion, students are fluent in the following tasks: project management, code modularity, costing, marketing, control, standards, code verification and testing, using CASE tools and debugging.

**ECE 317 Engineering of Computing (6 ECTS)**

**Prerequisite:** CS 035

This course consists of a sequence of lab assignments involving common problems in data networks and operating systems, socket programming, queuing theory modeling, thread migration techniques, load balancing and scheduling algorithms, resource allocation and task assignment problems, and common data handling and file sharing policies including network file sharing. The course integrates practical problems from both operating systems and data networks into a laboratory class, thus offering students a practical and hands-on approach for learning the principles of modern operating systems and networks.

**ECE 320 Signals and Systems II (6 ECTS)**

**Prerequisite:** ECE 220

Analysis of LTI single-loop feedback systems via transform techniques, and Discrete-time Fourier series, discrete-time Fourier transform, and Z transform. Time and frequency analysis of discrete-time LTI systems, sampling systems, application of continuous and discrete-time signal theory

to communication systems, digital control systems, and signal processing.

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**ECE 325 Iterative Methods (6 ECTS)**

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**Prerequisite:** CS 035

The course covers basic principles of optimization and focuses on iterative algorithms for solving engineering problems. Topics covered include matrices and matrix operations, system dynamics and difference equations, fast Fourier transforms (FFT) and discrete Fourier transforms (DFT), linear programming, network optimization, search algorithms, gradient-based techniques, and dynamic programming.

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**ECE 326 Dynamic Systems and Control (6 ECTS)**

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**Prerequisite:** ECE 220 (EE) or ECE 221 (CE)

Introduction to the concepts of feedback, open loop and closed loop. Mathematical modeling of engineering systems and nonlinear dynamical control systems. General differential equations and state variables, linearization. State descriptions and transfer function descriptions. Linear state space systems; zero-input and zero-state solutions, stability, observability, controllability. Analog realizations of general linear differential equations. Performance limitations. Open-loop, feed-forward, closed-loop configurations. Performance specifications. The Nyquist criterion; stability margins, unstructured uncertainty and robust stability. Classical design. Systems with delay. Pole placement.

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**ECE 327 Introduction to Control Systems Laboratory (2 ECTS)**

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**Co-requisite:** ECE 326

The course complements course ECE 326, Dynamic Systems and Control. It provides students with practical experience in applying theory and methodologies to the analysis and design of control systems for specific engineering problems. The course comprises a series of laboratory exercises targeting system modeling, experimental system identification/model validation and simulation of the dynamic behavior of systems using software tools. It focuses on the design of control systems to meet prescribed specifications, as well as on examination of the simulated behavior, followed by hardware implementation and evaluation of the actual control performance.

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**ECE 331 Electromagnetic Fields (6 ECTS)**

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**Prerequisite:** MAS 029

Maxwell's and wave equations, electrostatics, magnetostatics. Transmission lines; Time and space dependence of signals, line parameters, input impedance, reflection coefficient, standing-wave ratio, transient behavior. Impedance matching; Transformers, stubs, analysis using the Smith chart.

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**ECE 340 Power Engineering (6 ECTS)**

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**Prerequisite:** ECE 102

Power system components. Magnetic circuits, inductors, transformers and their equivalent circuits. Generation, transmission and utilization of electric power. 3-phase AC and DC systems. Fundamentals of electromechanical energy conversion. Power semiconductors: basic devices and circuit applications. DC/DC converters; buck, boost, buck-boost and their derivatives, basic operation and design criteria. AC circuits: SCR phase control, inverters, uninterruptable power supplies (UPS).

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**ECE 341 Electric Machines Laboratory (2 ECTS)**

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**Co-requisite:** ECE 340

In-depth analysis of the operation and the characteristics of transformers, DC machines and single-phase and three-phase AC machines. DC machine experiments include shunt, series, and compound wound machines, both in the motor and generator modes. AC machine experiments include squirrel cage and slip ring induction motors, and salient pole and round rotor synchronous generators/motors. The transformer experiments concentrate on no load and on load characteristics, and short circuit and open circuit tests.

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**ECE 358 Telecommunications Laboratory (2 ECTS)**

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**Co-requisite:** ECE 359

This course is a series of labs on analog, digital, and fiber-optic communications. The course includes analog communications experiments on amplitude, frequency and phase modulation and detection. It also covers digital communications experiments on PAM and PCM signal generation and demodulation, Delta modulation, channel bandwidth and noise, encoding and decoding, ASK/PSK/FSK signal generation and detection, and the effect of noise on ASK, PSK and FSK signals. Experiments on losses, dispersion, and optical power budget for fiber-optic communication systems are also included.

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**ECE 359 Introduction to Communication Systems (6 ECTS)**

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**Prerequisite:** ECE 220 (EE) or ECE 221 (CE)

Analysis and design of analog communication systems: AM and FM modulation and demodulation, noise. Digital communication systems: sampling, quantization, encoding, digital modulation and detection techniques. Multiplexing. Applications. Examples; telephone systems, cable TV systems and broadcasting systems.

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**ECE 360 Computer Networks (6 ECTS)**

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Computer network design goals. Circuit switched, packet switched and virtual circuit switched networks. The course introduces the layering approach and the OSI layer model. It covers issues of the physical, data link, and network layers and introduces the Internet Protocol (IP). Reliable end-to-end communication and the transport layer. Introduction to the UDP and TCP protocols.

### **ECE 401/402 Capstone Design Project I and II (7 ECTS each)**

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Students enroll in this capstone design project (senior thesis design) in their final year, under the guidance and supervision of a faculty member. The final thesis project teaches students how to approach technological problems, that require integrated knowledge and application of engineering principles learned in their course of study. Students will choose a thesis topic on either Electrical or Computer Engineering from a wide variety of projects, in consultation with the supervising faculty member.

### **ECE 403/404 Capstone Design Course I and II (7 ECTS each)**

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This course spans two semesters and focuses on the principles of project planning, organization, implementation, verification, and evaluation. Through the implementation of a capstone project, students apply the principles and practices they have learned throughout their studies. The course encapsulates an array of learning outcomes related to project management, such as: capturing requirements and specifications, strategic decision making and planning, implementation methodologies and models, evaluation strategies, testing and verification methodologies, and other concepts. Furthermore, students learn principles of time management and organization, independent study techniques and collaboration and cooperation strategies through teamwork. Through project deliverables, students learn project report writing strategies, exploitation and dissemination of results, presentation and outreach activities for future exploitation. The course offers students a selection of capstone projects, which are given annually in collaboration with the Departmental Council and the course instructor(s), and cover an array of topics in Electrical and Computer Engineering.

### **Elective Courses for other Departments**

#### **EECE 001 Health and Technology (5 ECTS)**

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Medicine has evolved from an inaccurate art to a science that saves lives every day. This course investigates the principles of some of the most important technological advancements in medicine and analyses the financial and ethical implications of their application. Students learn about the scientific and technological basis of the operation of modern medical instrumentation, as well as its inception, socio-economic impact, and possible future evolution. This course is designed for students of all majors and does not require a science or engineering background.



## ANALYTICAL PROGRAMME OF STUDIES FOR ELECTRICAL ENGINEERING

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
PHY 131 General Physics I: Mechanics and Waves and Thermodynamics	6	ECE 305 Electronic Devices and Circuits II	5
MAS 025 Mathematics for Engineers I	5	ECE 320 Signals and Systems II	6
ECE 100 Introduction to Design and Engineering	5	ECE 326 Dynamic Systems and Control	6
ECE 101 Introduction to Design and Engineering Laboratory	2	ECE 327 Introduction to Control Systems Laboratory	2
ECE 105 Engineering Analysis and Modeling	7	ECE 331 Electromagnetic Fields	6
LAN 100 General Advanced English	5	General Free Elective Course I	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
PHY 132 General Physics II: Electricity and Electromagnetic and Optics	6	ECE 306 Electronic Devices and Circuits Laboratory	5
MAS 026 Mathematics for Engineers II	5	ECE 340 Power Engineering	6
CS 034 Introduction to Programming Principles for Electrical and Computer Engineers	7	ECE 341 or ECE 358 Electrical Engineering Laboratory Elective (Electric Machines or Telecommunications Laboratory)	2
ECE 102 Electrical Circuits and Networks	7	ECE 359 Introduction to Communication Systems	6
LAN 104 English for Technical Purposes	5	ECE 3XX ECE Core Elective I	6
<b>TOTAL</b>	<b>30</b>	General Free Elective Course II	5
<b>YEAR TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd YEAR</b>		<b>YEAR TOTAL</b>	<b>60</b>
<b>3rd Semester</b>		<b>4th YEAR</b>	
MAS 029 Elements of Linear Algebra	5	<b>7th Semester</b>	
CS 035 Data Structures and Algorithms for Electrical and Computer Engineers	7	ECE 401/403 Capstone Design Project/Course I	7
ECE 202 Electronic Device Principles and Circuit Modeling	5	ECE 4XX ECE Technical Elective Course	6
ECE 203 Circuits and Measurements Laboratory	5	ECE 4XX ECE Technical Elective Course	6
ECE 210 Digital Logic Design	5	ECE 4XX ECE Technical Elective Course	6
ECE 211 Digital Systems Laboratory	3	General Free Elective Course III	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>8th Semester</b>	
MAS 027 Mathematics for Engineers III	5	ECE 402/404 Capstone Design Project/Course II	7
ECE 220 Signals and Systems I	6	PBA 468 Entrepreneurship and Innovation	7
ECE 205 Electronic Devices and Circuits I	5	ECE 4XX ECE Technical Elective Course	6
ECE 212 Computer Organization and Microprocessors	5	ECE 4XX ECE Technical Elective Course	6
ECE 213 Computer Organization and Microprocessors Laboratory	3	ECE 4XX ECE Technical Elective Course	6
ECE 224 Introduction to Random Signals and Systems	5	<b>TOTAL</b>	<b>32</b>
<b>TOTAL</b>	<b>29</b>	<b>YEAR TOTAL</b>	<b>62</b>
<b>YEAR TOTAL</b>	<b>59</b>	<b>GRAND TOTAL</b>	<b>241</b>

## ANALYTICAL PROGRAMME OF STUDIES FOR COMPUTER ENGINEERING

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
PHY 131 General Physics I	6	ECE 311 Discrete Analysis and Structures	6
MAS 025 Mathematics for Engineers I	5	ECE 312 Computer Architecture	5
ECE 100 Introduction to Design and Engineering	5	ECE 314 Computer Architecture Laboratory	3
ECE 101 Introduction to Design and Engineering Laboratory	2	ECE 325 Iterative Methods	6
ECE 105 Engineering Analysis and Modeling	7	ECE 3XX ECE Core Elective I	6
LAN 100 General Advanced English	5	General Free Elective Course I	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>31</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
PHY 132 General Physics II	6	ECE 313 Engineering of Operating Systems	5
MAS 026 Mathematics for Engineers II	5	ECE 316 Operating Systems and Networks Laboratory	3
CS 034 Programming Principles I	7	ECE 317 Engineering of Computing	6
ECE 102 Electrical Circuits and Networks	7	ECE 360 Computer Networks	6
LAN 104 English for Technical Purposes	5	ECE 3XX ECE Core Elective II	6
<b>TOTAL</b>	<b>30</b>	General Free Elective Course II	5
<b>YEAR TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>31</b>
<b>2nd YEAR</b>		<b>YEAR TOTAL</b>	
<b>3rd Semester</b>		<b>62</b>	
MAS 029 Elements of Linear Algebra	5	<b>4th YEAR</b>	
CS 035 Data Structures and Algorithms	7	<b>7th Semester</b>	
ECE 202 Electronic Device Principles and Circuit Modeling	5	ECE 401/403 Capstone Design Project/Course I	7
ECE 203 Circuits and Measurements Laboratory	5	ECE 4XX ECE Technical Elective Course	6
ECE 210 Digital Logic Design	5	ECE 4XX ECE Technical Elective Course	6
ECE 211 Digital Systems Laboratory	3	ECE 4XX ECE Technical Elective Course	6
<b>TOTAL</b>	<b>30</b>	General Free Elective Course III	5
<b>4th Semester</b>		<b>TOTAL</b>	<b>30</b>
MAS 027 Mathematics for Engineers III	5	<b>8th Semester</b>	
ECE 221 Signals and Systems for Computer Engineers	6	ECE 402/404 Capstone Design Project/Course II	7
ECE 205 Electronic Devices and Circuits I	5	PBA 468 Entrepreneurship and Innovation	7
ECE 212 Computer Organization and Microprocessors	5	ECE 4XX ECE Technical Elective Course	6
ECE 213 Computer Organization and Microprocessors Laboratory	3	ECE 4XX ECE Technical Elective Course	6
ECE 224 Introduction to Random Signals and Systems	5	ECE 4XX ECE Technical Elective Course	6
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>32</b>
<b>YEAR TOTAL</b>	<b>59</b>	<b>YEAR TOTAL</b>	<b>62</b>
		<b>GRAND TOTAL</b>	<b>243</b>

## TECHNICAL ELECTIVE COURSES (6 ECTS each)

### Electrical Engineering Direction of Study

Students following the Electrical Engineering Programme must take 6 Elective Courses (36 ECTS units) from the following list of Technical Elective Courses, of which three courses must be chosen from one of the following areas of concentration:

#### Communication Systems and Networks

- ECE 360 Computer Networks
- ECE 417 Distributed Systems
- ECE 453 Wireless Telecommunication Networks
- ECE 455 Fiber Optic Communication Systems and Networks
- ECE 457 Computer System and Network Security
- ECE 464 Mobile Computing Systems

#### Biomedical Engineering

- ECE 425 Introduction to Robotics
- ECE 429 Digital Signal Processing
- ECE 435 Optical Engineering and Photonics Laboratory
- ECE 471 Neurophysiology and Senses
- ECE 473 Instrumentation and Sensors
- ECE 476 Biomedical Imaging
- ECE 477 Biomedical Optics
- ECE 478 Digital Image Processing

#### Electric Energy Systems

- ECE 441 Electromechanical Energy Conversion
- ECE 442 Power System Analysis
- ECE 444 Power Electronics
- ECE 445 Power Systems: Generation and Control
- ECE 447 Renewable Sources of Energy: Photovoltaics
- ECE 448 Advanced Electric Machines

#### Intelligent Systems and Control

- ECE 421 Introduction to Computational Intelligence
- ECE 424 Fault-Tolerant Systems
- ECE 425 Introduction to Robotics
- ECE 428 Control Systems Laboratory
- ECE 429 Digital Signal Processing
- ECE 478 Digital Image Processing

#### Waves, Antennas and Optics

- ECE 435 Optical Engineering and Photonics Laboratory
- ECE 437 Antennas
- ECE 438 Microwave and Radio-Frequency Circuits
- ECE 447 Renewable Sources of Energy: Photovoltaics
- ECE 455 Fiber Optic Communication Systems and Networks

### Computer Engineering Direction of Study

Students following the Computer Engineering Programme must take 6 Elective Courses (36 ECTS units) from the following list of Technical Elective Courses, including three courses from one of the following areas of concentration:

#### Computer Hardware and Embedded Systems

- ECE 406 Digital VLSI Circuit Design
- ECE 407 Computer Aided Design for VLSI
- ECE 408 Digital Design with FPGA
- ECE 409 Computer Architecture II
- ECE 424 Fault-Tolerant Systems

#### Intelligent Systems and Robotics

- ECE 421 Introduction to Computational Intelligence
- ECE 424 Fault-Tolerant Systems
- ECE 425 Introduction to Robotics
- ECE 429 Digital Signal Processing
- ECE 478 Digital Image Processing
- ECE 480 Brain-Computer Interface

#### Computer Networks

- ECE 359 Introduction to Communication Systems
- ECE 417 Distributed Systems
- ECE 424 Fault-Tolerant Systems
- ECE 453 Wireless Telecommunication Networks
- ECE 455 Fiber Optic Communication Systems and Networks
- ECE 457 Computer System and Network Security
- ECE 464 Mobile Computing Systems

#### Biomedical Engineering

- ECE 425 Introduction to Robotics
- ECE 429 Digital Signal Processing
- ECE 435 Optical Engineering and Photonics Laboratory
- ECE 471 Neurophysiology and Senses
- ECE 473 Instrumentation and Sensors
- ECE 476 Biomedical Imaging
- ECE 477 Biomedical Optics
- ECE 478 Digital Image Processing





Faculty of Engineering

## ● ● ● ● Department of Mechanical and Manufacturing Engineering

[www.ucy.ac.cy/mme/en](http://www.ucy.ac.cy/mme/en)

### **CHAIRPERSON**

Theodora Kyratsi

### **VICE-CHAIRPERSON**

Theodora Krasia-Christoforou

### **PROFESSORS**

Andreas Alexandrou

Ioannis Giapintzakis

Stavros Kassinos

### **ASSOCIATE PROFESSORS**

Michalis A. Averkiou

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Andreas Kyprianou

Theodora Krasia-Christoforou

Theodora V. Kyratsi

Loucas S. Louca

Claus G. Rebholz

### **ASSISTANT PROFESSORS**

Dimokratis Grigoriadis

Triantafyllos Stylianopoulos

Vasileios Vavourakis

## INTRODUCTION

Mechanical and Manufacturing Engineering is a key discipline, that impacts on nearly every aspect of daily life, and is at the core of all technological developments.

The Department of Mechanical and Manufacturing Engineering (MME) was founded in 2001, and is one of the four departments in the Faculty of Engineering at the University of Cyprus. The first undergraduate students were admitted in September 2003 and graduated in June 2007. The first graduate students were admitted in January 2005. More than 200 undergraduate students and 60 graduate students, at Master's and Ph.D. level, are currently enrolled in the MME programme. Every year about 60 new students are admitted to the undergraduate programme.

The Department consists of experienced and distinguished professors, with expertise in a wide range of research fields.

The Department offers a four-year undergraduate degree programme, which is designed based on international standards, as well as the peculiarities of the country, and gives emphasis on cutting-edge technologies.

The Department's curriculum and teaching methodology offer students not only an excellent education, but also cultivates their entrepreneurial spirit. The Department aims at producing high qualified and confident graduates who will be able to promote innovative ideas and stimulate development of a new high-technology-based industry in Cyprus.

Research and innovation are encouraged in an environment that fosters cooperation among students, faculty, industry, and research organizations.

The Department offers: B.Sc. in Mechanical and Manufacturing Engineering and Minor in Biomedical Engineering.

## MECHANICAL AND MANUFACTURING ENGINEERING

Course hours/credits at the University of Cyprus follow the European Credit Transfer and Accumulation System, ECTS. Therefore, a B.Sc. degree in Mechanical and Manufacturing Engineering requires successful completion of a minimum of 240 ECTS, of which, 15 ECTS should be earned for elective courses (not included in the student's specialization) from two different faculties of the University, and 10 ECTS should be earned for English language courses.

The programme is designed to produce highly qualified graduates with a strong background in the fundamentals of the field, societal sensitivity and the independence of thought required for a successful career in Mechanical and Manufacturing Engineering. The curriculum follows a deductive approach to learning, which stems from the fact that all physical phenomena important to Mechanical and Manufacturing Engineers are governed by a set of simple physical laws. To meet an actual need posed by society, a successful mechanical engineer is expected to use these laws in order to describe the problem of interest and then use his/her experience to devise a solution. The solution is most often obtained through a combination of analytical,

computational, and experimental means. Therefore, the curriculum educates students in basic physics, while reinforcing their mathematical skills and their ability to use computations and experimentation to obtain solutions at the stage of design.

An important goal of the Department's educational system is to produce creative and entrepreneurial students, who will be willing to further develop their ideas into commercial products.

## FINAL YEAR PROJECT

This project is developed in the course of an entire year and is compulsory for all fourth-year Mechanical and Manufacturing Engineering students. The project may be a group or an individual one. The faculty members suggest interesting topics at the end of each semester, and students in consultation with their faculty advisors select one of them. The purpose of this project is for students to solve an interesting engineering problem, with a combination of analytical, computational and / or experimental means.

## AREAS OF CONCENTRATION

Students enrolled in the Mechanical and Manufacturing Engineering programme should take a minimum of five elective courses (30 ECTS) from the list of technical elective courses. Elective courses from the following areas are offered: Mechanical Engineering, Manufacturing Engineering, Biomedical and Engineering and Materials Science and Engineering.

## AREAS OF RESEARCH

Research in the Department of Mechanical and Manufacturing Engineering covers a wide range of fields such as:

- Biomedical Engineering
- Computational Mechanics
- Materials Science and Engineering
- Mechanical System Modelling and Controls
- Micro- and Nano-technology
- Robotics
- Thermofluid Mechanics and Energy Systems

## COURSE DESCRIPTIONS

### Compulsory Courses

#### MME 105 Experimental and Statistical Analysis I (5 ECTS)

This experimental course introduces students to: basic experimental techniques used to determine physical parameters; the statistical analysis of experimental data; graphical methods for data presentation; the preparation of laboratory reports.

#### MME 106 Introduction to Engineering (5 ECTS)

The course offers a general introduction to the Mechanical and Manufacturing Engineering profession; the basic principles of mechanical design and the laws of nature

(principle of conservation of mass, linear momentum, and energy); physical concepts and parameters such as force, pressure, work, energy, heat transfer; the analysis of simple systems/ problems in all areas of engineering.

#### **MME 107 Introduction to Electromagnetism (5 ECTS)**

The course introduces students to the basic concepts and phenomena of Electromagnetism, and develops their ability to solve problems using calculus. Topics covered: Electric charge and matter; Electric field; Electrostatic potential; Capacitors and dielectrics; Electric current and resistance; DC circuits; Magnetism; Magnetic fields; Ampere's law; Faraday's law; Inductance and coils; Electromagnetic oscillations; AC circuits; Electromagnetic waves.

#### **MME 117 Programming and Numerical Methods (5 ECTS)**

The course provides an introduction to computer programming using FORTRAN and MATLAB. Examples from various engineering fields are used to develop programming algorithms. The first part of the course focuses on basic programming commands in FORTRAN. Students will then develop computer algorithms to solve, engineering problems discussed in the course Mechanics-I. The final component of the course is an introduction to the computational package MATLAB.

#### **MME 125 Statics (5 ECTS)**

Topics covered in the course include: Statics of particles; rigid bodies; Equilibrium of rigid bodies; Centroids and centers of gravity; Analysis of structures; Forces in beams and cables; Friction; Moments of inertia.

#### **MME 145 Computer Aided Drafting (5 ECTS)**

Engineers must be able to create and interpret detailed and assembled drawings in order to communicate their ideas. The course emphasizes the connection between the drawings and three-dimensional geometric models of a product and its design and manufacturing processes. Topics taught include: international conventions and standards; drawing scales; drawing line types; projection planes; views and view layout; isometric views; auxiliary views; sections; three-dimensional geometric modeling. All topics are implemented through a team project that will develop an integrated three-dimensional model of a mechanical device. Autodesk Mechanical and SolidWorks are the software tools used to create drawings and geometric models.

#### **MME 155 Material Science and Engineering I (5 ECTS)**

This course introduces students to the structure-property relationship of metals, ceramics and plastics, with emphasis on the mechanical properties. Topics include: Crystal structure; Material microstructure; Dislocations and defects; Phase diagrams and phase transformations; Processing and mechanical properties of metals, ceramics, polymers, and composites; Heat treatment of metals; Strain hardening; Fracture, fatigue and multi-axis loading; Creep and stress relaxation; Materials-related design issues, materials selection.

#### **MME 156 Chemistry for Engineers (5 ECTS)**

Topics in the course include: Atomic structure and chemical bonds. Chemical Equations: Stoichiometry, moles, concentration, molarity, density, etc. Chemical equations involving acids and bases; chemical equations involving gases; combustion reactions. Redox reactions. Examples: Electrolysis, corrosion, photosynthesis, fuel cells. Chemical Thermodynamics: Entropy, enthalpy and free energy, standard enthalpy changes of formation and combustion. Equilibria: Equilibria in physical processes, characteristic features of a dynamic equilibrium, equilibria in chemical reactions, the equilibrium constant and the equilibrium law; factors affecting chemical equilibria. Ionic equilibria in aqueous solution. Reaction rates and influencing factors. Reaction rate and equilibria principles to industrial processes. Special topics: Petroleum and alkanes. Catalysis. Recycling.

#### **MME 215 Thermodynamics I (5 ECTS)**

In this course, the fundamental conservation principles for mass, momentum and energy, and the principle of the non-destruction of entropy are applied to the engineering analysis of open and closed thermodynamic systems. A well-organized engineering analysis, using the method of "production accounting", is emphasized. Basic concepts such as work, heat, internal energy and entropy are clearly defined. The thermodynamic state postulate is introduced, leading to the use of thermodynamic diagrams, tables and equations of state. The ideal gas model is discussed in detail, including its range of applicability. Basic energy conversion and heating/refrigeration cycles are considered, with an emphasis on energy availability and efficiency analysis.

#### **MME 216 Incompressible Fluid Mechanics I (6 ECTS)**

##### ***Prerequisite: MAS 025***

This course provides an introduction to Fluid Mechanics, and outlines the basic concepts and definitions. Other subject areas covered include: Application of the laws of nature in open and closed macroscopic systems. Applications in problems with practical interest. Differential description of the kinematics, fluid deformation and the laws of nature. Analysis using dimensional analysis. Analytic solution of simple problems. Boundary layer theory, external and internal flows.

#### **MME 217 Heat Transfer (6 ECTS)**

##### ***Prerequisite: MAS 025***

Subject areas in the course include: Linear and volumetric expansion. Mechanisms of Heat Transfer (HT), Fourier, Newton and thermal radiation laws of HT. Conductivity and diffusion coefficients, emissivity. Electrical analog of HT, electrical resistance and equivalent thermal circuits. General differential equation of heat conservation. Steady conduction in one dimension, with or without internal heat sources, analytical solutions of flat walls, cylinders and spheres. Steady conduction in two dimensions, shape factors, numerical solutions. HT from fins and extended surfaces. Transient HT, Heisler charts, semi-infinite solids. Lumped capacitance method, Biot and Fourier numbers.



Forced and natural convection, Reynolds, Prandtl, Nusselt, Rayleigh and Grashof dimensionless numbers. Mixed convection, boiling and condensation. Heat exchangers. The course includes laboratory exercises.

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**MME 225 Dynamics (5 ECTS)*****Prerequisite: MME 125***

This course introduces students to the fundamental principles of dynamics and their application in the analysis of motion of particles and rigid bodies in two and three dimensions. Topics covered: (a) kinematics of particles, (b) kinetics of particles (Newton's second law, methods of energy and momentum, systems of particles), (c) kinematics of rigid bodies, (d) planar kinetics of rigid bodies (forces and acceleration, plane motion of rigid bodies, energy and momentum methods), and (e) introduction to the dynamics of rigid bodies in three dimensions.

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**MME 226 Mechatronics I (5 ECTS)*****Prerequisites: MME 107 and MAS 025***

Topics covered in the course include: Analog electronics, circuit elements, active/passive, waveforms. DC circuit analysis: Thevenin, Norton's theorem, max power transfer theorem. AC Circuit analysis: Filters Low pass, high pass and band pass. Active devices: Diodes, bipolar transistors, types and operation. The half wave and full wave rectifier, photodiodes, thermistors. Bipolar transistor amplifiers, types and operation, circuit analysis. Introduction to gain, open loop, closed loop, feedback, transfer functions. First order systems, poles and zeros, stability criteria. Digital electronics, mosfets, jfets types and operation, square waveforms. Binary and hexadecimal arithmetic, Karnaugh maps. Logic gates NOT, OR, AND, NOR, NAND, XOR truth tables and circuits. Inverters, Half/ full adders, sequential, combinational logic, flip Flops, registers.

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**MME 227 Vibrations (6 ECTS)*****Prerequisites: MAS 025 and MME 225***

This is an introductory course on mechanical vibrations. Through the study of the one-degree freedom systems the following issues will be explained: (a) the basic principles of modelling, (b) the second order differential equations that modelling yields, and (c) the relationship between the system physical parameters and the differential equations. The notions of (un)damped natural frequency and resonance are defined, using the system parameters, and their real life importance is thoroughly discussed. Two-degree of freedom systems are studied, in order to define the concept of mode shape. Finally, the wave equation, as a model of mechanical elements with distributed elasticity and inertia, is introduced.

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**MME 228 Mechatronics II (6 ECTS)*****Prerequisites: MME 226 and MME 107***

Mechatronics II involves experiments covering dc and ac circuits, analogue and digital electronics and simple mechatronic systems. More specifically, students carry out experiments on circuits involving resistances in series,

parallel, potentiometers, resistances in series with capacitors or inductors making use of oscilloscopes and multimeters, in order to determine power factors, total resistance and study resonance by changing frequency. They study the diode under forward and reverse bias, operational amplifier circuits and digital circuits involving logic gates. Finally, they construct simple mechatronic systems using PLCs and small robots.

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**MME 255 Materials Science and Engineering II (5 ECTS)*****Prerequisite: MME 155***

This course follows on from "Materials Science and Engineering I" and the main topic covered is the relationship of structure to physical properties for all types of materials - metals, ceramics and polymers. The course, first, briefly examines topics such as crystal structure and defects in metals and ceramics, and then focuses on the thermal, electrical, magnetic and optical properties of the aforementioned materials. Lastly, the course discusses: 1) how to select materials for engineering applications, and 2) the economic, environmental and social issues related to the science and technology of materials. The course includes a series of demonstrations and experimental exercises.

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**MME 256 Strength of Materials (5 ECTS)*****Prerequisite: MME 125***

Subjects covered in the class include: Elastic behavior; three dimensional stress and strain. Deformation energy and work. Engineering theory of bending and torsion. Composite loading of prismatic beam. Skew bending, bending with axial load. Section core – inert area. Shearing of thin-wall sections due to bending. Torsion of thin-wall sections. Elasto-plastic behavior, uniaxial behavior. Elasto-plastic bending and torsion. Plastic analysis of beams. Von Mises yield criterion. Mohr-Coulomb failure criterion.

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**MME 315 Thermodynamics II (6 ECTS)*****Prerequisites: MME 215 and MAS 025***

This course is a continuation of Thermodynamics I, and considers the design and performance of advanced energy conversion systems. The thermodynamics of nonreactive mixtures is introduced first, with an emphasis on air-water-vapor mixtures and applications to air conditioning systems: psychrometry, comfort zones, accounting for thermal loads, design of air conditioning systems. Then, there is an introduction to the thermodynamics of compressible fluid flow: speed of sound, Mach number, regimes in compressible flow, one-dimensional steady isentropic flow, choking in isentropic flow, shock waves, isentropic flow in convergent-divergent passages, compressibility effects with friction and heat transfer. The course also includes a design competition for the optimization of a thermodynamic system, using thermodynamics software.

**MME 316 Incompressible Fluid Mechanics II (6 ECTS)****Prerequisite: MME 216**

The course offers a brief review of the basic concepts of fluid mechanics, and then provides an analysis of internal flow networks and external flows with application in aerodynamics. Next, the course provides an introduction to rotational fluid mechanics, an examination of conservation of angular momentum for closed and open systems, and a theoretical description and analysis of pumps and power engines.

**MME 317 Computational Engineering II (6 ECTS)****Prerequisites: MME 117, MAS 027 and MAS 029**

This course is an introduction to numerical methods for the solution of real engineering problems in the areas of vibrations, statics and dynamics, heat transfer, wave propagation, etc. Topics covered include: numerical integration and optimization, and solution of ordinary and partial differential equations with Taylor series, Euler, Runge-Kutta, finite differences, and Crank-Nicolson methods. The course also covers solutions to initial and boundary value problems. It includes a programming component for writing algorithms for the numerical solutions in FORTRAN and use of established packages like MatLab.

**MMK 318 Thermal Engines (6 ECTS)****Prerequisite: MME 315**

Topics covered in this course include: Types and technologies of thermal engines, thermodynamic cycles and performance Internal Combustion Engines (ICE), kinematics. Thermodynamic cycles and performance metrics. Timing, two-stroke and four-stroke ICE. Operating principles of Otto, Diesel, HCCI and gas turbines. Combustion of gas mixtures. Theoretical and actual cycles of reciprocating engines and gas turbines. Energy balance. Heat transfer, lubrication and cooling. Special conditions and problems of combustion of various fuels. Mixture Formation, load settings. Configuration of the combustion chambers and fuel injection. Pollutants & emissions. Turbocharging and supercharging. The course includes a series of laboratory exercises.

**MME 325 Modeling and Analysis of Dynamic Systems (6 ECTS)****Prerequisites: MAS 027 and MME 225**

The course introduces a unified approach for modeling real dynamic systems. Modeling is accomplished using appropriate graphical or state-space equation models, in order to meet the requirements during the use of the models in design and automatic control. Methods of system analysis are used to calculate behavioral characteristics and to evaluate the accuracy of modeling assumptions. Topics taught include: lumped parameter models; rigid body models; models with electric, fluid and thermal elements; interfaces; state-space equations; block diagrams; analysis of linear systems; Laplace transforms – transfer functions; time and frequency domain response;

stability. Students will be taught how to use Matlab/ Simulink, as computational analysis tools.

**MME 327 Control Engineering (6 ECTS)****Prerequisite: MME 325**

This course offers an introduction to control systems, including sensors and actuators. Topics covered include control system analysis and design, using differential equations and Laplace transforms. Order of systems, stability, poles and zeros, feedback control theory. Students are given examples of control systems, such as temperature control, water level control in boilers.

**MME 345 Machine Elements (6 ECTS)****Prerequisite: MME 256**

The course will teach methods for the calculation, selection and use of components (machine elements) required in Mechanical Engineering. The course first introduces engineering design principles, while also reinforcing students' understanding of material properties, load and stress analysis, deformation and elasticity, and theories of material failure. Subsequently, the main machine elements, their properties and selection procedure are defined; the machine elements studied include: shafts; screws/ nonpermanent joints; welding/permanent joints; springs; bearings; lubrication/journal bearings. The course includes a team project to design an engineering device and its 3D geometric modeling on a computer.

**MME 346 Mechanical Design (6 ECTS)****Prerequisite: MME 345**

This is a two-part course on machine elements and design. The topics covered for machine elements are: gears and power transmission, strength of gears, principles of operation of clutches and brakes, and the theory of flexible machine elements, such as belts and chains. For machine design, it is the design process in detail that is covered, from preparation of the design brief to the generation of ideas and concepts, that might satisfy the design brief, and finally the materialization of the end product.

**MME 347 Design and Manufacturing (6 ECTS)****Prerequisite: MME 145**

The course is an introduction to modern computer-aided design and manufacturing technology, with emphasis on geometrical aspects (material aspects are covered in MME 348). Topics taught include: Design by CAD, representation of 2D/3D lines, surfaces and objects, geometric processing by homogeneous transformations. Rapid prototyping with material deposition - technologies, systems and applications. Machining processes, material removal, non-traditional technologies, manufacturing by CAM. Shaping by deformation/flow of foil and bulk material, CAE analysis. Surface patterning by lithography, coating and etching, micro- and nanotechnology. Metrology, microscopy, scanning and machine vision, instruments and image processing. Tolerances, fits, surface quality and defects. Assembly and transportation with

automation, robotics and navigation systems. Applications of Design and Manufacturing Systems.

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**MME 348 Manufacturing Processes (6 ECTS)**

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**Prerequisite: MME 347**

This course will take a broad look at the various manufacturing processes for available engineering materials. The lecture material will be reinforced by laboratory sessions and problem sets. Topics covered include: Introduction to manufacturing processes for engineering materials; Review of fundamental mechanics of plastic deformation; Structure and manufacturing properties of metals; Surface structure, treatments and tribology; Metal-casting and heat treatment processes; Bulk deformation processes: turning, milling, drilling, etc.; Material removal processes: abrasive, chemical, electrical and high-energy beams; Joining processes: soldering, brazing, welding, etc.; Micro- and nanofabrication.

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**MME 405 Final Year Project I (4 ECTS)**

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The project is developed over the course of an entire year and is compulsory for all fourth-year Mechanical and Manufacturing Engineering students. The project may be a group or an individual one. Faculty members suggest topics from which students, in consultation with their chosen advisors, make their selection. The purpose of this project is for students to solve an interesting engineering problem, with a combination of analytical, computational and / or experimental means.

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**MME 406 Final Year Project II (6 ECTS)**

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**Prerequisite: MME 405**

Continuation of the course "Final Year Project I"

### Technical Elective Courses

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**MME 416 Refrigeration, Heating and Air-conditioning (7 ECTS)**

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**Prerequisites: MME 217 and MME 315**

The course covers the analysis and design of air-conditioning systems, for maintaining comfortable conditions in both small and large buildings. It also makes an analysis of refrigeration systems for industrial applications. Topics covered include: Climatological data; Comfort conditions; Psychrometry; Solar loads; Air-conditioning loads; Loads of walls, Glass windows, Lighting, Human heat, Devices; Refrigerants; Basic Refrigeration cycles; Air-conditioning system: fan-coil units, air (variable flow or temperature), water/air, heat pump; Design of Air-conditioning system.

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**MMK 417 Energy Systems (7 ECTS)**

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**Prerequisite: MME 315**

Topics covered in the course include: Energy and power, energy balance, conversion efficiency. Conventional, renewable energy sources. Steam & gas turbines, Electric motors, Generators. Cogeneration. Thermoelectrics and applications, fuel cells, operating principle and types,

hydrogen as a fuel. Solar energy and calculation of solar potential, solar geometry. Solar thermal systems. Photovoltaics, formulas, curves and operating performance. Wind energy and wind power, wind turbines, wind farms. Hydro energy. Biomass, Biogas. Geothermal, wave energy and marine currents. The course includes laboratory exercises.

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**MME 418 Compressible Flow (7 ECTS)**

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**Prerequisites: MME 215, MME 315 and MME 317**

Compressible gas flow is a topic of interest in contemporary engineering applications, such as the transport and storage of natural gas. This course is an introduction to the fundamentals of the compressible flow of gases and includes the following topics: appropriate conservation laws; propagation of disturbances; isentropic flows; Mach number, speed of sound and regimes in compressible flow; one-dimensional steady compressible flow; choking in isentropic flow; isentropic flow in convergent-divergent passages; normal shock wave relations, oblique shock waves, weak and strong shocks, and shock wave structure; compressible flows in ducts with area changes, friction, or heat addition; unsteady compressible flows; Prandtl-Meyer function. The emphasis will be on physical understanding of the phenomena and basic analytical techniques.

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**MME 419 Modern Computational Tools for Engineers (7 ECTS)**

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**Prerequisites: MME 117 and MME 317**

Computational Engineering refers to the process of translating the description of physical systems into models that can be analyzed using computers. The use of computational tools for analysis is part of the everyday routine of engineers. When properly used computational tools are a powerful ally that every engineer should be able to rely on. This course offers an introduction to Object Oriented Scientific Programming (OOSP) as a paradigm for the design and development of effective scientific programs. Emphasis is placed on the tremendous capabilities unleashed in Fortran 2008/2015, which allows parallel programmes to be developed and executed on personal computers with minimal overhead. The process of modeling of physical systems and the subsequent program design and development are treated as a unified process. Programming skills are developed through a series of examples from various branches of Mechanical Engineering, such as fluid dynamics, energy storage conversion and transfer, and Biomedical Engineering.

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**MME 426 Vibrations Theory and Applications (7 ECTS)**

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**Prerequisite: MME 227**

The aim of this course is (a) to present the mechanics of linear vibrations through the notion of frequency response function and (b) to introduce the basic concepts of non-linear systems. The following topics are covered: structure of dynamics and dynamical examples from various scientific disciplines, generalized coordinates, vibrations of multi-degree and infinite degree of freedom systems, non-linear system behaviour characterization: limit cycles and chaos.



**MME 427 Dynamics of Machines and Mechanisms (7 ECTS)****Prerequisite: MME 325**

The course focuses on the kinematics and dynamics of planar mechanisms. Students' understanding of the subject is reinforced in this course, through the study of realistic problems of machine kinematics and dynamics. After the successful completion of this course, students will have the general mathematical and computational skills to perform high-fidelity kinematics and dynamics analysis of machine elements including linkages, cams, and gears. Topics covered include: rigid body kinematics and dynamics; graphical and analytical mechanism synthesis; gear train and cam analysis; dynamics and analysis of reciprocating machines. Students also learn to use generalized and specialized software for mechanism analysis, e.g. Matlab, SolidWorks, Working Model.

**MME 436 Cell and Tissue Mechanics (7 ECTS)**

The course focuses on the mechanical behavior of native human tissues, and how their mechanical properties are related to tissue function and pathology. Basic knowledge of mechanics (stresses, deformations, balance laws) will be employed to study the mechanical response of tissues such as arteries, heart valve leaflets, muscle tissue and bones. Subsequently, we will show how changes in the mechanical properties of these tissues can lead to diseases such as hypertension, and arteriosclerotic plaques. The course does not require knowledge of biology.

**MME 442 Lasers and their Applications (7 ECTS)****Prerequisites: MME 347 and MME 348**

Lasers are part of everyday tasks, such as reading grocery prices, measuring the size of a room, playing music on compact disks and printing or copying paper documents. This course will give an introduction to lasers, which play a key role in modern production processes, and their huge field of applications. Topics covered include: Laser background and general applications; Basic laser optics; Laser cutting, Laser welding; Laser surface treatment; Rapid prototyping and low-volume manufacture; Laser bending and forming; Laser cleaning; Laser automation and in-situ process sensing; etc. The lecture material will be reinforced by laboratory sessions and problem sets.

**MME 451 Linear Static and Dynamic Finite Element Analysis of Solids (7 ECTS)**

The aim of this course is to introduce the students to the realm of solid mechanics and structural analysis using computers, particularly using the Finite Element Method (FEM). The material of this introductory course identifies two major parts: the simulation and analysis using FEM of linear elastostatic boundary value problems, and the modelling of transient (time-dependent) solid mechanics problems. It covers essential material for final year undergraduates and postgraduates in Mechanical Engineering, Bio-engineering and Civil Engineering. Students will attend laboratory workshops on commercially available FEM software.

**MME 456 Properties of Polymers and Polymer Processing (7 ECTS)****Prerequisite: MME 155**

The course is divided into two parts. In the first part, the mechanical properties of polymers (e.g. elasticity, viscoelasticity, strength, etc.) and the effect of their structural and chemical characteristics on their mechanical behavior are discussed. The structure-properties correlation, the thermal transitions of polymers and how these are capable of affecting their properties, as well as the rheological characteristics of polymeric solutions and melts are analyzed. In the second part, different methods used in polymer processing such as mixing, reinforcement, molding, etc., are discussed.

**MME 457 Metrology and Materials Characterization Techniques (7 ECTS)**

Topics covered in this course include: Measurements methodology. Metrology. Quality in measurements and testing. Reference materials. Accreditation. Analysis and structural characterization of materials at macro- micro and nano levels. Materials properties techniques (mechanical, thermal, electrical, optical, etc.). The course includes labs on selected techniques.

**MME 458 Materials for Energy and Environment (7 ECTS)****Prerequisite: MME 255**

The course addresses questions such as: How can we meet rising energy demands? What are our options? Are there viable long-term solutions for the future? The course introduces students to the fundamental materials science at the core of: Renewable energy sources, Nonrenewable energy sources, Future transportation systems, Energy efficiency, and Energy storage.

**MME 459 Science, Technology and Manufacturing of Fiber Materials (7 ECTS)****Prerequisites: MME 155 and MME 156**

This course will emphasize on glass and carbon fibers. After a historical overview a detailed account of (a) glass wool, (b) different types of glass fibers and manufacturing tools, methods and (c) processing and manufacturing of fiber reinforced plastics with polymers (d) thermal, mechanical properties and applications will be given. Similarly, the course will cover (a) different types of carbon fibers, micro and nano, methods and materials for synthesis, (b) materials, and processing of carbon fiber reinforced polymers (c) properties and applications. The course will include laboratory sessions on fiber reinforced plastics, measurement of properties etc. The course will be graded as follows: a midterm exam, corresponding to 30% of the overall grade, the final exam corresponding to 40% of the overall grade and the lab sessions corresponding to 30% of the overall grade.

## ANALYTICAL PROGRAMME OF STUDIES

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>	
MAS 025 Engineering Mathematics I	5	MME 315 Thermodynamics II	6
LAN 100 General Advanced English	5	MME 317 Numerical Methods	6
MME 105 Experimental and Statistical Analysis	5	MME 325 Modeling and Analysis of Dynamic Systems	6
MME 106 Introduction to Engineering	5	MME 345 Machine Elements	6
MME 117 Programming and Numerical Methods	5	MME 347 Design and Manufacturing	6
MME 125 Statics	5	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>		
<b>Spring Semester</b>		<b>Spring Semester</b>	
MAS 026 Engineering Mathematics II	5	MME 316 Incompressible Fluid Mechanics II	6
LAN 104 English for Technical Purposes	5	MME 318 Thermal Engines	6
MME 107 Introduction to Electromagnetism	5	MME 327 Control Engineering	6
MME 145 Computer Aided Drafting	5	MME 346 Mechanical Design	6
MME 155 Material Science and Engineering I	5	MME 348 Manufacturing Processes	6
MME 156 Chemistry for Engineers	5	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>		
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>	
MAS 027 Engineering Mathematics III	5	MME 405 Final Year Project I	4
MME 215 Thermodynamics I	5	MME 4... Technical Elective Course	7
MME 225 Dynamics	5	MME 4... Technical Elective Course	7
MME 226 Mechatronics I	5	MME 4... Technical Elective Course	7
MME 255 Materials Science and Engineering II	5	Elective Course	5
MME 256 Strength of Materials	5	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>		
<b>Spring Semester</b>		<b>Spring Semester</b>	
MAS 029 Elements of Linear Algebra	5	MME 406 Final Year Project II	6
MME 216 Incompressible Fluid Mechanics I	6	MME 4... Technical Elective Course	7
MME 217 Heat Transfer	6	MME 4... Technical Elective Course	7
MME 227 Vibrations	6	Elective Course	5
MME 228 Mechatronics II	7	Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>3</b>

## TECHNICAL ELECTIVE COURSES

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	ECTS
MME 416 Refrigeration, Heating and Air-conditioning	7
MME 417 Energy Systems	7
MME 418 Compressible Flow	7
MME 419 Modern Computational Tools for Engineers	7
MME 426 Vibrations Theory and Applications	7
MME 427 Dynamics of Machines and Mechanisms	7
MME 436 Cell and Tissue Mechanics	7
MME 442 Lasers and their Applications	7
MME 451 Linear Static and Dynamic Finite Element Analysis of Solids	7
MME 456 Properties of Polymers and Polymer Processing	7
MME 457 Metrology and Materials Characterization Techniques	7
MME 458 Materials for Energy and Environment	7
MME 459 Science, Technology and Manufacturing of Fiber Materials	7

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The background of the entire page is a photograph of graduates in black gowns and mortarboard caps, seated in rows. The lighting is warm and slightly dim, focusing on the graduates. A solid blue rectangular area is overlaid on the right side of the image, containing the text.

# THE GRADUATE SCHOOL

Dean:  
*Haridimos Tsoukas*

Deputy Dean:  
*May Chehab*



## Graduate School

[www.ucy.ac.cy/graduateschool/en](http://www.ucy.ac.cy/graduateschool/en)



### DEAN

Haridimos Tsoukas, Professor,  
Department of Business  
and Public Administration

### VICE-DEAN

May Chehab, Professor,  
Department of French and European Studies



## GENERAL INFORMATION

The University of Cyprus anticipates further growth of its graduate education with the establishment of the Graduate School in 2012. The Graduate School aims to develop and promote high quality postgraduate studies at the University of Cyprus, in order to attract students from countries other than Cyprus and to contribute towards the effort of the University of Cyprus to establish itself as a Centre of Excellence.

The Graduate School differs from other faculties of the University, since its components are not departments, but their postgraduate programmes. The Graduate School coordinates the evaluation, development and promotion of postgraduate programmes. Although the programmes are offered by the academic departments of the University, the Graduate School coordinates the whole process without intervening in the academic work of the departments.

## OBJECTIVES OF THE SCHOOL

The objectives of the Graduate School are the following:

- To adopt quality assurance indicators to ensure the quality of the postgraduate programmes and of the degrees awarded.
- To encourage interdepartmental and interuniversity programmes of study, mainly at a doctoral level.
- To assist the academic departments in obtaining external financial support for postgraduate studies and research.
- To strengthen the University's research productivity and its links with the world's best universities.
- To offer scholarships to postgraduate students based on academic achievements and financial needs.
- To develop the research environment that will attract more academics and researchers and will increase the income from competitive research programmes.
- To improve the quality of the support offered to postgraduate students and to academic departments.
- To develop programmes in languages other than the official languages of the University.







## FACULTY OF HUMANITIES

Dean:

*Anastasia Nikolopoulou*

Deputy Dean:

*Antonis Balasopoulos*

## DEPARTMENT

- English Studies
- French and European Studies
- Turkish and Middle Eastern Studies
- Language Centre





Faculty of Humanities

## ● ● ● ● Department of English Studies

[www.ucy.ac.cy/eng/en](http://www.ucy.ac.cy/eng/en)

### **CHAIRPERSON**

Phoevos Panagiotidis

### **VICE-CHAIRPERSON**

Evy Varsamopoulou

### **PROFESSORS**

Kleanthes K. Grohmann

### **ASSOCIATE PROFESSORS**

Antonis Balasopoulos

George Floros

Maria Margaroni

Anastasia Nikolopoulou

Phoevos Panagiotidis

Evy Varsamopoulou

### **ASSISTANT PROFESSORS**

Stella Achilleos

### **LECTURERS**

Vasso Giannakopoulou

## INTRODUCTION

The Department of English Studies offers a B.A. Degree in English Language and Literature. After a general course of study in the first year, students opt for one of three distinct tracks: a) Anglophone Literature and Cultural Studies, b) Theoretical and Applied Linguistics or c) Translation Studies.

The Department offers four minor programmes: a) English Literature, b) English Linguistics, c) Gender Studies, d) American Literature and Culture. It also participates in the interdepartmental undergraduate programme in Modern Languages and European Studies.

## PHILOSOPHY AND OBJECTIVES OF EACH TRACK

### A) Anglophone Literature and Cultural Studies

#### Philosophy

This track offers the possibility of comparative study and analysis of anglophone and related literatures, and engages in depth with major authors, the most significant literary genres, periods and movements, applying a range of critical and methodological approaches to the interpretation of texts within different geographical and historical contexts.

Given the transcultural nature of the English language and literature in a globalized world, the critical and interdisciplinary analysis of social and cultural practices within the realities of a particular place are given prominence. The aim is to develop the ability to identify ethical and sociopolitical issues in literature, art and culture more generally, within a broader understanding of the contemporary role of the critical humanities.

#### Objectives

The track in Anglophone Literature and Cultural Studies is designed to provide students with the ability to:

- Develop a high level of communicative competence in the use of English.
- Master the standards and conventions of academic discourse and writing.
- Apply a range of critical and methodological approaches to the study of literary and related texts.
- Identify and evaluate relevant sources of information and to use them critically in the process of developing knowledge and interpretations.
- Think and articulate ideas creatively, and to become critical and self-reflective independent learners.

### B) Theoretical and Applied Linguistics

#### Philosophy

This programme highlights the epistemological significance of Linguistics and offers students a scientific study of Linguistics focused on two axes: Theoretical and Applied Linguistics.

Theoretical linguistics focuses on the examination of the structure of English at all levels of representation (phone-

tics, phonology, morphology, syntax). Further objects of study are: the significance and interpretation of language within (semantics) and outside (pragmatics) its structure, language change (historical Linguistics), language in the inner world of the individual (first language acquisition, language disorders) and comparative linguistics. Applied linguistics investigates the pedagogical aspects of language teaching, providing efficient training in the teaching of English as a foreign language. Other branches of applied linguistics offered are, for instance, second language acquisition and sociolinguistics.

#### Objectives

The track in Theoretical and Applied Linguistics is designed to provide students with:

- A high level of communicative competence in the use of English.
- The theoretical background necessary to understand the structure and use of language in general and of the English language in particular.
- The ability to use knowledge of linguistics and the English language in research and teaching.

### C) Translation Studies

#### Philosophy

The track in Translation Studies focuses on the theory and practice of translation, but also on the wider field of intercultural studies and its interaction with translation. Translation is no longer considered an exclusively language-related phenomenon, but is rather perceived as an intercultural practice, given that comparative skills and an intercultural perspective constitute an important foundation for the study and practice of translation. The Department of English Studies is offering this track in response to students' need for alternative professional opportunities, especially in light of the rapid growth of translation as a profession around the world in the past decades.

#### Objectives

The track in Translation Studies is designed to provide students with:

- A high level of communicative competence in the use of English.
- The fundamental critical and practical skills needed for various areas of language transfer between English and Greek.
- The theoretical background necessary to develop an awareness of translation as an intercultural activity beyond language.

In addition to the objectives specific to each track, the B.A. degree in English Language and Literature aims to help students develop the reflective awareness, characteristic of the Humanities, that problems of knowledge and truth cannot be divorced from the textual and historical conditions of their emergence.

To achieve these objectives, the programme offers a range of courses in Language Development, Theoretical and Applied Linguistics, Literature, History and Culture, Literary Theory, Translation Theory and Practice, Research and Teaching Methodology. Students who successfully complete the programme may:

- Pursue a career in teaching, professional translation, public or foreign service, and media and communication.
- Undertake postgraduate studies in a wide variety of areas, including British, American or Comparative Literature, Literary Theory, Cultural Studies, Theoretical and Applied Linguistics, Translation Studies, Theatre Studies, Media and Communication Studies.

English is the language of instruction in all courses; therefore, a high level of proficiency is required for admission to the programme. All courses are credited in ECTS.

## DEGREE REQUIREMENTS

A) For a B.A. Degree in English Language and Literature with a specialization in **Anglophone Literature and Cultural Studies**, the course requirements are as follows:

	Number of Courses	ECTS
Language Component	3	15
Professional Training	1	7.5
Core & Track Electives	18-20 (minimum)	117.5
Core & Other Electives (from other Tracks)	9-11 (maximum)	65
Foreign Language (non-English)	3	15
University Electives	4	20

B) For a B.A. Degree in English Language and Literature with a specialization in **Theoretical and Applied Linguistics**, the course requirements are as follows:

	Number of Courses	ECTS
Language Component	3	15
Professional Training	1	7.5
Core & Track Electives	17-19 (minimum)	110
Core & Other Electives (from other Tracks)	10-12 (maximum)	72.5
Foreign Language (non-English)	3	15
University Electives	4	20

C) For a B.A. Degree in English Language and Literature with a specialization in **Translation Studies**, the course requirements are as follows:

	Number of Courses	ECTS
Language Component	3	15
Professional Training	1	7.5
Core & Track Electives	12-14 (minimum)	82.5

Core & Other Electives (from other Tracks)	13-15 (maximum)	100
Foreign Language (non-English)	3	15
University Elective	4	20

## OVERALL DEGREE ORGANISATION

The courses of the B.A. in English Language and Literature are divided into four groups according to the following course codes:

ENG 101-170 Language Component and Introductory Courses

ENG 350 Compulsory Course in Professional Training

### Tracks

A) For the track in **Anglophone Literature and Cultural Studies**, students must choose two courses from each of the following areas:

ENG 211-219 Topics in the Study of Fiction

ENG 220-229 Topics in the Study of Poetry

ENG 330-339 Topics in the Study of Drama

In addition to these courses, the following course is compulsory for all students:

ENG 310 History of Literary Theory and Criticism

B) For the track in **Theoretical and Applied Linguistics**, students must choose one course from each of the following areas:

ENG 250-255 Topics in Phonetics and Phonology of English

ENG 256-259 Topics in Semantics and Pragmatics

ENG 260-269 Topics in Morphology and Syntax

In addition to these choices, the following courses are compulsory for all students:

ENG 240 Pedagogical Grammar

ENG 241 Sociolinguistics

ENG 340 Language Change and Development

ENG 341 Psycholinguistics

C) For the track in **Translation Studies**, all of the following courses are compulsory:

ENG 270 Translation Methodology

ENG 280 Translation Theory

ENG 390-399 Topics in Translation Studies

### Track Seminars

Students of each Track must choose at least eight seminar courses in their Track.

ENG 500-539 Anglophone Literature and Cultural Studies

ENG 540-569 Theoretical and Applied Linguistics

ENG 570-599 Translation Studies



## DESCRIPTION OF MINOR PROGRAMMES

### A) Anglophone Literature and Cultural Studies

Students taking a minor in English Literature are required to fulfil the Foreign Language Requirement in English, in addition to nine courses in English Literature.

The following three introductory courses are compulsory:

ENG 110	Introduction to the Study of Fiction
ENG 120	Introduction to the Study of Poetry
ENG 130	Introduction to the Study of Drama

Students will choose the additional six courses from among the English Literature courses offered for the degree programme in English Language and Literature. Choices will be made in accordance with their interest and the guidance of the literature section of the Department. Students may opt to take one or two courses in Translation Studies instead of literature courses.

### B) Minor in English Linguistics

Students taking a minor in English Linguistics are required to fulfil the Foreign Language Requirement in English, in addition to ten courses required for the minor.

#### (a) Six Compulsory Courses

ENG 160	Introduction to Linguistics
ENG 240	Pedagogical Grammar
ENG 250-255	Topics in Phonetics and Phonology of English
ENG 260-269	Topics in Morphology and Syntax of English
ENG 256-259	Topics in Semantics and Pragmatics

One of the following:

ENG 241	Sociolinguistics
ENG 341	Psycholinguistics
ENG 350	EFL Teaching Methodology

#### (b) Four Additional Courses

Four courses must be taken from the Linguistics and/or Professional components of the B.A. programme in English Language and Literature. All course choices are subject to the approval of the Department.

### C) Gender Studies

The programme is offered in collaboration with the following Departments: Byzantine and Modern Greek Studies, Education, French Studies and Modern Languages, History and Archaeology, Business and Public Administration. Students are required to take ENG 500 Introduction to Feminist Theory and a sufficient number of the designated Elective Courses to graduate with 60 ECTS. Given the interdepartmental nature of the programme, students are required to take courses from at least three different departments. Available options will vary from year to year, according to the interests of members of staff and the needs of the collaborating departments. Specific options will be announced before the beginning of each semester. After consultation with their advisor and instructors,

students may choose up to two postgraduate courses in Gender Studies. They may also conduct independent research in a relevant area under the supervision of one of the collaborating academics.

### D) American Literature and Culture

Students must attend seven Compulsory Courses and at least two Elective Courses in American Literature and Culture offered by the programme in Anglophone Literature and Culture. The tenth course required for the minor may be: a) a third elective course in the field, from the courses offered by the programme, b) an Independent Study project related to the field, supervised by a qualified faculty member or c) a relevant course in another programme. In the second and third cases, approval by the Department of English Studies and by the relevant instructor is required.

#### List of Compulsory Courses

ENG 110	Introduction to the Study of Fiction
ENG 130	Introduction to Drama
ENG 211-219	Topics in Fiction
ENG 317	History of Literary Theory and Criticism
ENG 220-229	Topics in Poetry
ENG 534	Seminar in American Studies I
ENG 535	Seminar in American Studies II

## COURSE DESCRIPTIONS

### A) Language Component

#### ENG 101 English for Academic Purposes (5 ECTS)

This course is designed to introduce students to a variety of academic tasks, including note-taking of university-level lectures, the study of academic texts, journal articles and essays. In this way students become familiarized with different types of writing. Further instruction covers planning, drafting and writing response and critical essays as well as speaking in an academic context.

#### ENG 102 Research Skills in the Humanities (5 ECTS)

The course aims to offer students of the Department more systematic guidance in writing academic papers. It aims to function as a preparatory course in order to enhance the research skills needed for papers and presentations in Literature, Linguistics and Translation. The course comprises four main areas (a) acquainting students with the University library and electronic catalogues, (b) working with the Internet, (c) introducing MS-Word and PowerPoint, and (d) dealing with problems of correct citation of bibliography.

#### ENG 103 Academic Essay Writing (5 ECTS)

This course is designed to be a gateway to the English major. It reviews the areas students can focus on within current-day English studies and examines the way such basics of academic argument as thesis, evidence, and structure are applied to various types of academic essays. It then turns their attention to three such focus areas:

(a) writing critically about Linguistics, (b) writing critically about Literature, and (c) writing critically about Translation. Throughout the course, students will get hands-on practice with planning out, researching, and (re)writing intellectually sophisticated essays of the kind that they will be expected to write in upper-level courses within the major.

## B) Literature Component

### ENG 110 Introduction to the Study of Fiction (5 ECTS)

The course introduces students to key principles and critical approaches in the study of fiction. There is discussion of types of fiction, and the history and formation of fictional genres. The class will read one or two novels and several short stories and will discuss the main narrative elements, as structuralist theory has defined them. It will also trace the changes these elements have undergone in specific historical periods and in the context of different literary traditions.

### ENG 120 Introduction to the Study of Poetry (5 ECTS)

The course introduces students to different historical genres of poetry and to a systematic literary study of the elements of poetry by concentrating on structure, figurative language, metrical arrangements, rhythm and diction.

### ENG 130 Introduction to the Study of Drama (5 ECTS)

The course aims to develop in each student an imaginative, meaningful and enriching experience of drama both as a reading experience and as dramatic performance. The students will be introduced to the techniques of systematic study of drama texts and genres, by emphasizing such elements as dramatic structure, character, dialogue and point of view.

### ENG 211-219 Topics in Fiction: Studies in the 18th Century Novel (5 ECTS)

In this cluster of courses, students will study major novels by the most influential prose fiction writers that helped shape the emerging genre of the English novel in the early to mid-eighteenth century. The historical conditions of the 18th century in England, the particular situation of each writer, but also wider social realities and economic conditions will be discussed, in order to achieve a fuller appreciation of the novels' cultural historical signification. Questions of genre will form a substantial concern in the reading of the novels, as will English literary history.

### ENG 211-219 Topics in Fiction: Studies in the 19th Century Fiction (5 ECTS)

This cluster of courses will concentrate on questions of literary history, aesthetics and politics in the study of Victorian fiction from the 1830s to the end of the 19th century. Particular areas of focus may include the aesthetics of literary realism and naturalism, the study of fictional genres (Victorian gothic, the Bildungsroman, the social or industrial novel, domestic fiction, detective fiction), stylistic modes (sentimentality, bathos, decadence) and socio-historical contexts (the industrial revolution, empire and imperialism, the separation of social spheres on the basis

of gender, class struggle, crime, deviance and policing, Victorian and late Victorian sexualities).

### ENG 211-219 Topics in Fiction: Postcolonial Fiction (5 ECTS)

This cluster of courses will focus on the development, in the post-war period, of Anglophone postcolonial fiction, its rise to global prominence, and its relationship to the decentralization and, effectively, the globalization of "English studies". Particular areas of focus may include questions of literary history (magical realism, the impact of orality and oral traditions, the reinvention of myth, the re-appropriation of the canon, the relationship between postcolonialism and postmodernism), and the study of the role of specific geographical regions or transregional formations.

### ENG 211-219 Topics in Fiction: Studies in Shorter Fiction (5 ECTS)

This course will focus on the study of shorter fiction from the perspective of literary history, genre theory, and aesthetics. It will concentrate on the generic pre-history of Shorter Fiction, its basic forms (short story, novella), its initial aesthetic codification during the American Renaissance (Poe, Hawthorne, Melville), and its generic expressions (detective fiction, mystery fiction, the ghost story, allegorical fable, parable, science fiction story, among others). Texts studied will include works by outstanding Anglophone pioneers of the genre and of its generic subdivisions.

### ENG 211-219 Topics in Fiction: Modern and Postmodern Fiction (5 ECTS)

The aim of this cluster of courses is to familiarize students with the most representative practices in the area of Anglophone Fiction, as well as with the critical and theoretical discourses that have dominated this field from the beginning of the 20th century to the present. More particularly, courses will focus on the critical engagement with the tradition of realism, tracing the debates around issues which in modern and contemporary fiction are considered fundamental, i.e. the function and reliability of representation, the narrative construction of identity, the relation between history and story, the politics of meta-fictional discourse, and the gradual erasure of the distinction between popular fiction and avant-garde writing.

### ENG 220-229 Topics in Poetry: Poetry of the Early Modern Period (5 ECTS)

Courses offered in this area concentrate on the history and development of the English poem in the early modern period. Through the study of selected texts, students will consider the development of a variety of poetic genres and literary traditions (such as the sonnet; the courtly lyric; metaphysical poetry; the epic and the pastoral). Considering texts in relation to the broader social and cultural context of the early modern period, students will further be introduced to a wide set of issues, such as the politics of the Reformation and Renaissance humanism; the politics of class and gender; colonization and England's expansion in the New World.

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**ENG 220-229 Topics in Poetry: Poetry of the Long 18th Century (5 ECTS)**

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Courses offered in this area focus on English poetry of the long eighteenth century (the period between the Restoration of monarchy in 1660 and the late 1780s). Through the reading of selected texts, students will examine various issues that marked the production of poetry during this period (such as neoclassicism; the use of satire; gender and class; poetry as a force for social change; popular literacy and the growth of print culture). Situating texts within the broader social, cultural and ideological framework of their production, students will further be introduced to current scholarly debates concerning the poetry of the period.

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**ENG 220-229 Topics in Poetry: Studies in Romantic and Victorian Poetry (5 ECTS)**

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Courses in this area will focus on the primary significance of lyrical poetry in British Romantic and Victorian Poetry. Poets considered will be: William Blake, Robert Burns, William Wordsworth, Samuel Taylor Coleridge, John Keats, George Gordon, Percy Bysshe Shelley, Elizabeth Barrett Browning, Robert Browning, Christina Rossetti, Alfred, Lord Tennyson and Thomas Hardy. Attention will be given to themes and issues of Romantic poetics and aesthetics foregrounded in the prose writings of such key figures as Wordsworth, Coleridge and Shelley. We will also consider the importance of politics and sage discourse, the development of modern poetics and of new themes in Victorian poetry.

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**ENG 220-229 Topics in Poetry: Major Themes and Voices in 20th Century Poetry (5 ECTS)**

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This cluster of courses will take a critical and comparative approach to modern poetry in English in the twentieth century. The focus will be on poetry from the UK and the USA by poets who have achieved significant critical recognition as well as popular acclaim. The selection aims to give some idea also of post-colonial poetry and the greater diversity of voices (writing in English). The course lecture programme is generally arranged on the basis of movement, period, theme, but also gender or ethnic background, where these last two are overtly foregrounded in the poet's work.

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**ENG 310 History of Literary Theory and Criticism (7.5 ECTS)**

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The course aims at raising student awareness of the history of literary theory, and of current debates around the study, interpretation and evaluation of literary texts. Some of the major exponents of literary theory from Aristotle to the poststructuralists are studied. Through the study of selected literary texts, students are encouraged to examine how texts themselves (re)stage the theoretical debates around them.

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**ENG 330-339 Topics in Theatre: Studies in Shakespeare (7.5 ECTS)**

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Courses offered in this area concentrate on selected dramatic works of Shakespeare, examining how these shaped and were shaped by the world of Elizabethan and Jacobean England. While gaining an appreciation of vari-

ous elements of Shakespearean drama (such as Shakespeare's stage techniques and his use of sources), students will be encouraged to explore the broader social and cultural dimensions of Shakespeare's plays. Students will further be invited to examine the plays from multiple theoretical perspectives, and to analyze texts in relation to a wide range of issues (such as power and authority, gender, sexuality and class).

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**ENG 330-339 Topics in Theatre: Studies in Early Modern Drama (7.5 ECTS)**

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Courses offered in this area concentrate on English drama of the early modern period, exclusive of Shakespeare. Focusing on the reading of selected dramatic texts by some of the major dramatists of this period (such as Christopher Marlowe, Ben Jonson, Thomas Middleton, and John Fletcher), students will be expected to situate early modern drama within a broad set of changes that transformed English culture and society during the sixteenth and seventeenth centuries, such as the Protestant Reformation, the rise of the cities, the growing power of the middle classes, England's attempts at colonization and the emergence of a national identity.

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**ENG 330-339 Topics in Theatre: Themes in 18th and 19th Century Drama (7.5 ECTS)**

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Courses offered in this area will explore eighteenth and nineteenth century plays in the context of the emergence of the bourgeois and the proletarian public spheres, as these have been theorized by critics such as Peter Szondi, Jürgen Habermas, Oscar Negt, Alexander Kluge, and others. Students will examine a range of generic transformations in the theatre, such as sentimental bourgeois drama, gothic drama, romantic drama, and melodrama. Students will produce critical reports on plays, creative projects, and a final essay.

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**ENG 330-339 Topics in Theatre: Modern Drama (7.5 ECTS)**

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Courses offered in this area will focus on major playwrights from the late nineteenth century to the present whose theories and plays have determined the development of modern drama, such as Bertolt Brecht, Antonin Artaud, and Augusto Boal. The development of specific genres, such as realism, epic theatre, and postmodern approaches to the theatre will also be examined. Students will do creative and analytical projects, including critical reports and a final essay.

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**ENG 330-339 Topics in Theatre: Anglophone Post - War Drama (7.5 ECTS)**

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The aim of courses offered in this area is to familiarize students with the diverse field of Anglophone Post-War Drama. Discussions will focus on some of the most important theatrical movements that developed from 1945 to the present, in most cases in the margins of or against the so-called 'commercial' theatre: namely, the theatre of the absurd, the socialist realism of the 'angry young men', the happenings of avant-garde theatre, activist theatre, physical theatre, body theatre, and forms of postmodern theatrical production that are based on the



use of multimedia, the mixture of different theatrical, literary or artistic genres, improvisation and collective work.

### C) Linguistics Component

#### ENG 160 Introduction to Linguistics (5 ECTS)

This course is intended to serve as a foundation course for the study of linguistics. It aims to provide a background in the core areas of linguistics, i.e. phonetics and phonology (sounds and sound patterns), morphology (word structure), syntax (sentence structure) and semantics (the meanings of words). Secondly, it aims to provide an introduction to interdisciplinary fields of linguistics, such as language in the individual (unique characteristics of human language, language acquisition, language disorders, etc.), the role of language in social organization and language change.

#### ENG 161 Language and Mind (5 ECTS)

This course provides an introduction to psycholinguistics and the biological basis for language. It will address some fundamental questions regarding human language, such as how language is (1) represented in our minds, (2) acquired by children, and (3) processed by adults. Ultimately, this course will explore the relationship between language and thought in a biolinguistic setting, from conceptual-theoretical perspectives (what is often called the philosophy of language) as well as experimental-applied perspectives (psycholinguistics at large).

#### ENG 240 Pedagogical Grammar (5 ECTS)

The course presents an overview of the grammar of English and focuses on topics in English grammar that are relevant to the EFL teacher. It aims at both improving students' own English usage and analyzing problems in English usage of EFL learners.

#### ENG 241 Sociolinguistics (5 ECTS)

The aim of this course is to study language variation within a social context. It shows how sociocultural factors such as social status, occupation, level of education, age, and gender affect linguistic behaviour.

#### ENG 250-255 Topics in Phonetics and Phonology (5 ECTS)

This group of courses investigates the speech sounds of human languages from an articulatory and an acoustic point of view as well as the basic notions behind the way in which speech sounds are organized into sound systems of different human languages. At a suprasegmental level, it investigates prosodic systems (syllable structure and stress) of human languages. Whilst it starts off with the fundamental concepts of phonetics and phonology, at the same time, it provides the foundation for more advanced treatments of the above topics through different theoretical frameworks within contemporary phonology.

#### ENG 256-259 Topics in Semantics and Pragmatics (5 ECTS)

This group of courses investigates meaning in language (semantics) and how language is used for communication (pragmatics). Students are offered the necessary formal tools and analytical methods to examine language meaning,

while actual accounts are discussed of various aspects of meaning, such as truth, denotation and reference, predication, and quantification. The group also includes courses introducing students to the ways language in use is studied and how inference and context turn language into a powerful communication tool.

#### ENG 260-269 Topics in Morphology and Syntax (5 ECTS)

These courses go beyond the introductions to word structure (morphology) and sentence structure (syntax). Emphasis will be placed on (a) practice in analyzing words and sentences and (b) elements of modern morphological and syntactic theories. Morphology courses will investigate methods of morphological research, morphological rules and mechanisms, the relation between morphology and phonology and morphology and syntax, the concepts of word and morpheme, of morphological rule, and the position of morphology in the theory of language. Syntax courses will expand upon the transformational-generative approach to sentence structure, stressing understanding of both theoretical concepts and their explanatory power over empirical data.

#### ENG 340 Language Change and Development (5 ECTS)

This course surveys two different research areas. It investigates language change and how diachronic linguistics proposes to explain it; it also looks into language acquisition and development as well as the factors involved into how humans grow language: a biological capacity for language, general learning mechanisms and the environment. The course further proposes concrete ways to unify the two fields of research, towards explaining linguistic change as something that follows naturally from how language is acquired. The course uses, describes and explains a wealth of empirical evidence, primarily from English.

#### ENG 341 Psycholinguistics (5 ECTS)

This course acquaints students with: (a) the factors that enhance and hamper learning (b) the major theories of learning and their application to language (c) first language acquisition (d) second language learning (e) bilingualism (f) cognitive development (g) biological foundations of language and (h) zoosemiotics.

#### ENG 350 EFL Methodology (7.5 ECTS)

This course aims at preparing prospective teachers of English for their future work in the classroom. It introduces students to theories of learning and teaching, various traditional and innovative methodologies of teaching foreign languages, lesson planning, the selection and use of various teaching aids and the organization and evaluation of teaching materials. Students are guided in their teaching practice.

### D) Translation Studies

#### ENG 170 Introduction to Translation Practice (5 ECTS)

The course is intended to provide a general foundation in translating. Students will be acquainted with the complexity of the task of translation and will be encouraged to

discuss problems and possible solutions with the help of translation exercises based on authentic texts of various genres. An additional aim is to familiarize students with the need for in-depth research and the vast research possibilities. At the end of the course, students are expected to have developed an awareness of the background involved in language transfer, as well as a basic ability to handle translation problems at the micro-structural level.

#### **ENG 270 Translation Methodology (5 ECTS)**

The aim of this course is to discuss translation as a problem solving activity and as a decision-making process. Focus will be put on the distinction between translation strategies (e.g. foreignization vs. domestication) and translation procedures, (methods) as well as on the theoretical and methodological interplay between text and cultural background. Specific attention will be given to terminological issues and to translation problems arising from text-typological specificities (genre, function, cultural specificity). Students are expected to have developed an awareness of what the translation process involves and to have acquired the necessary skills to deal with practical translation problems.

#### **ENG 280 Translation Theory (5 ECTS)**

The aim of this course is to introduce students to the main theoretical approaches to Translation Studies and to examine how the phenomenon of translation has been perceived from classical antiquity to the present. The course will examine the historical, philosophical, social, and cultural context in which translation takes place. Students will develop a broad understanding of translation as an activity that goes beyond language, and which in the 20th century has shaped Translation Studies as an interdisciplinary field of study in its own right, drawing on disciplines such as philosophy and anthropology as well as linguistics and literary theory.

#### **ENG 390-399 Topics in Translation Studies (7.5 ECTS)**

These courses will focus on translation as cross-cultural transfer and as inter-semiotic activity, so as to foreground the connection of translation to intercultural studies. The courses will draw on cross-cultural theory, so as to think through the connection or gap between the causation of translation and its reception. This cluster of courses will discuss cultural products and environments as found, for example, in literature, poetry, drama and film, and the transformations and comparative aesthetic and ideological contexts in which transfer circulates.

### **ELECTIVE COURSES (7.5 ECTS)**

#### **ENG 500-539 Anglophone Literature and Cultural Studies**

Representations of Otherness in Early Modern England  
Early Modern Women and Writing  
Literature and Utopia in Early Modern England  
Theatre and Cultural Studies of the 18th and 19th century  
Romanticism and the Novel  
Post-colonial Literature

The Literature of the Uncanny  
English Literature and Culture at the Fin-de-Siècle  
Seminar in American Studies I  
Seminar in American Studies II  
Seminar in Comparative Studies I  
Seminar in Comparative Studies II  
Women Writers and Fantasy  
Introduction to Feminist Theory  
Seminar in the Study of Postmodernism  
Topics in the History of Literary Genres  
Metamorphoses: Narratives and Theories of Becoming in Contemporary Feminism  
Studies in the Literary Essay  
Studies in Poetry and Poetics  
Self, Truth and Language in Modern Autobiographical Texts  
Melodrama: Theatre, Cinema, Criticism  
Experimental Theatre  
Women and World Cinema  
Philosophy and Poetics in European Cinema  
Film History and Criticism  
Existentialism in Literature and Film  
Independent Study in Literature A  
Independent Study in Literature B

#### **ENG 540–569 Theoretical and Applied Linguistics**

EFL Methodology II  
Issues in Biolinguistics  
Pedagogical Phonetics  
Grammatical Categories  
Trends and Topics in Linguistics  
Applied Linguistics  
Topics in English Phonology  
Topics in English Syntax  
Topics in Psycholinguistics and Language Learning  
Comparative Syntax  
Language Acquisition and Language Disorders  
History of English  
Teaching English to Children  
Historical Linguistics  
First Language Acquisition  
Second Language Acquisition  
Language Typology  
The Use of English as an International Language  
Language Assessment: Principles and Classroom Practices  
EFL Materials Design and Evaluation  
Independent Study in Linguistics A  
Independent Study in Linguistics B

## ENG 570-599 Translation Studies

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Stylistics

Culture and Translation

LSP and Principles of Terminology

Text Linguistics

Culture and Idioculture in Poetry Translation

Translation Typology and Methodology

Translation Research Methods

New Technologies in Translation

Literary Translation and Comparative Literary Studies

Drama Translation and Comparative Theatre Studies

Semiotic Issues in Translation

Comparative and Intercultural Semiotics

Text and Image in Semiotic Translation

Film and Translation

Translation of Technical and Scientific Texts

Translation of Legal and Economic Texts

Translation of EU Texts

Audiovisual Translation

Principles of Interpreting

Introduction to Intercultural Communication

Gender in Translation

Film Adaptation: Cross Cultural Transfers and Creative Appropriations

Topics in Cultural Translation

An/other Europe in Film and Translation

Independent Study in Translation A

Independent Study in Translation B

*Note: The above seminars for each track may vary from year to year, as they are subject to staff availability and overall planning needs.*



## STRUCTURE OF THE DEGREE PROGRAMME

### 1st YEAR

#### 1st Semester

ENG 101	English for Academic Purposes	5
ENG 102	Research Skills in the Humanities	5
ENG 110	Introduction to the Study of Fiction	5
ENG 120	Introduction to the Study of Poetry	5
ENG 160	Introduction to Linguistics	5
FL 1	Foreign Language	5
<b>TOTAL</b>		<b>30</b>

#### 2nd Semester

ENG 103	Academic Essay Writing	5
ENG 130	Introduction to the Study of Drama	5
ENG 161	Language and Mind	5
ENG 170	Introduction to Translation Practice	5
FL 2	Foreign Language	5
UE 1	University Elective	5
<b>TOTAL</b>		<b>30</b>
<b>YEAR TOTAL</b>		<b>60</b>

### 2nd YEAR

#### 3rd Semester

##### ANGLOPHONE LITERATURE AND CULTURE

ENG 220-229	Topics in Poetry	5
ENG 211-219	Topics in Fiction	5
FL 3	Foreign Language	5
UE 2	University Elective	5
plus 2 out of:		
ENG 270	Translation Methodology	
ENG 240	Pedagogical Grammar	
ENG 250-255	Topics in Phonetics & Phonology of English (2X5)	10
<b>TOTAL</b>		<b>30</b>

##### THEORETICAL & APPLIED LINGUISTICS

ENG 240	Pedagogical Grammar	5
ENG 250-255	Topics in Phonetics & Phonology of English	5
FL 3	Foreign Language	5
UE 2	University Elective	5
plus 2 out of:		
ENG 270	Translation Methodology	
ENG 211-219	Topics in Fiction	
ENG 220-229	Topics in Poetry (2X5)	10
<b>TOTAL</b>		<b>30</b>

##### TRANSLATION STUDIES

ENG 270	Translation Methodology	5
FL 3	Foreign Language	5
UE 2	University Elective	5
plus 3 out of:		
ENG 240	Pedagogical Grammar	
ENG 250-255	Topics in Phonetics & Phonology of English	
ENG 220-229	Topics in Fiction	
ENG 211-219	Topics in Poetry (3X5)	15
<b>TOTAL</b>		<b>30</b>

#### 4th Semester

##### ANGLOPHONE LITERATURE AND CULTURE

ENG 211-219	Topics in Fiction	5
ENG 220-229	Topics in Poetry	5

### ECTS

UE 3	University Elective	5
UE 4	University Elective	5
plus 2 out of:		10
ENG 241	Sociolinguistics	
ENG 256-259	Topics in Semantics & Pragmatics	
ENG 260-269	Topics in Morphology & Syntax	
ENG 280	Translation Theory (2X5)	10
<b>TOTAL</b>		<b>30</b>

##### THEORETICAL AND APPLIED LINGUISTICS

ENG 241	Sociolinguistics	5
ENG 256-259	Topics in Semantics	5
ENG 260-269	Topics in Morphology & Syntax	5
UE 3	University Elective	5
UE 4	University Elective	5
plus 1 out of:		
ENG 211-219	Topics in Fiction	
ENG 220-229	Topics in Poetry	
ENG 280	Translation Theory	5
<b>TOTAL</b>		<b>30</b>

##### TRANSLATION STUDIES

ENG 280	Translation Theory	5
UE 3	University Elective	5
UE 4	University Elective	5
plus 3 out of:		
ENG 241	Sociolinguistics	
ENG 256-259	Topics in Semantics & Pragmatics	
ENG 260-269	Topics in Morphology & Syntax	
ENG 211-219	Topics in Fiction	
ENG 220-229	Topics in Poetry (3X5)	15
<b>TOTAL</b>		<b>30</b>
<b>YEAR TOTAL</b>		<b>60</b>

### 3rd YEAR

#### 5th Semester

##### ANGLOPHONE LITERATURE AND CULTURE

ENG 330-339	Topics in Theatre	7.5
ENG 350	EFL Teaching Methodology	7.5
ENG 500-539	Elective LIT	7.5
plus 1 out of:		
ENG 570-599	Elective LING	
ENG 540-569	Elective TRA	
ENG 340	Language Change & Development	
ENG 390-399	Topics in Translation Studies	7.5
<b>TOTAL</b>		<b>30</b>

##### THEORETICAL AND APPLIED LINGUISTICS

ENG 340	Language Change & Development	7.5
ENG 350	EFL Teaching Methodology	7.5
ENG 540-569	Elective LING	7.5
plus 1 out of:		
ENG 570-599	Elective LIT	
ENG 500-539	Elective TRA	
ENG 330-339	Topics in Theatre	
ENG 390-399	Topics in Translation Studies	7.5
<b>TOTAL</b>		<b>30</b>

## STRUCTURE OF THE DEGREE PROGRAMME

	ECTS		ECTS
<b>TRANSLATION STUDIES</b>		<b>THEORETICAL AND APPLIED LINGUISTICS</b>	
ENG 350 EFL Teaching Methodology	7.5	ENG 540-569 Elective LING	7.5
ENG 390-399 Topics in Translation Studies	7.5	ENG 540-569 Elective LING	7.5
ENG 570-599 Elective TRA	7.5	ENG 540-569 Elective LING	7.5
plus 1 out of:		plus 1 out of:	
ENG 540-569 Elective LING		ENG 540-569 Elective LING	
ENG 500-539 Elective LIT		ENG 570-599 Elective TRA	
ENG 340 Language Change & Development		ENG 500-539 Elective LIT	
ENG 330-339 Topics in Theatre	7.5	ENG 440 Thesis	7.5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>6th Semester</b>		<b>TRANSLATION STUDIES</b>	
<b>ANGLOPHONE LITERATURE AND CULTURE</b>		ENG 570-599 Elective TRA	7.5
ENG 310 History of Literary Theory and Criticism	7.5	ENG 570-599 Elective TRA	7.5
ENG 330-339 Topics in Theatre	7.5	ENG 570-599 Elective TRA	7.5
ENG 500-539 Elective LIT	7.5	plus 1 out of:	
plus 1 out of:		ENG 570-599 Elective TRA	
ENG 341 Psycholinguistics		ENG 540-569 Elective LING	
ENG 540-569 Elective LING		ENG 500-539 Elective LIT	
ENG 570-599 Elective TRA (2X7,5)	15	ENG 470 Thesis	7.5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>THEORETICAL &amp; APPLIED LINGUISTICS</b>		<b>8th Semester</b>	
ENG 341 Psycholinguistics	7.5	<b>ANGLOPHONE LITERATURE AND CULTURE</b>	
ENG 540-569 Elective LING	7.5	ENG 500-539 Elective LIT	7.5
plus 2 out of:		ENG 500-539 Elective LIT	7.5
ENG 310 History of Literary Theory and Criticism		ENG 500-539 Elective LIT	7.5
ENG 330-339 Topics in Theatre	7.5	plus 1 out of:	
ENG 500-539 Elective LIT		ENG 500-539 Elective LIT	
ENG 570-599 Elective TRA	7.5	ENG 570-599 Elective TRA	
<b>TOTAL</b>	<b>30</b>	ENG 540-569 Elective LIT	
<b>TRANSLATION STUDIES</b>		ENG 420 Thesis	7.5
ENG 570-599 Elective TRA	7.5	<b>TOTAL</b>	<b>30</b>
plus 3 out of:		<b>THEORETICAL AND APPLIED LINGUISTICS</b>	
ENG 341 Psycholinguistics		ENG 540-569 Elective LING	7.5
ENG 310 History of Literary Theory and Criticism		ENG 540-569 Elective LING	7.5
ENG 330-339 Topics in Theatre		ENG 540-569 Elective LING	7.5
ENG 500-539 Elective LIT		plus 1 out of:	
ENG 540-569 Elective LING (3X7,5)	22.5	ENG 540-569 Elective LING	
<b>TOTAL</b>	<b>30</b>	ENG 570-599 Elective TRA	
<b>YEAR TOTAL</b>	<b>60</b>	ENG 500-539 Elective LIT	
<b>4th YEAR</b>		ENG 450 Thesis	7.5
<b>7th Semester</b>		<b>TOTAL</b>	<b>30</b>
<b>ANGLOPHONE LITERATURE AND CULTURE</b>		<b>TRANSLATION STUDIES</b>	
ENG 500-539 Elective LIT	7.5	ENG 570-599 Elective TRA	7.5
ENG 500-539 Elective LIT	7.5	ENG 570-599 Elective TRA	7.5
ENG 500-539 Elective LIT	7.5	ENG 570-599 Elective TRA	7.5
plus 1 out of:		plus 1 out of:	
ENG 500-539 Elective LIT		ENG 570-599 Elective TRA	
ENG 570-599 Elective TRA		ENG 540-569 Elective LING	
ENG 540-569 Elective LING		ENG 500-539 Elective LIT	
ENG 410 Thesis	7.5	ENG 480 Thesis	7.5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
		<b>YEAR TOTAL</b>	<b>60</b>
		<b>GRAND TOTAL</b>	<b>240</b>

## INTERDISCIPLINARY B.A. PROGRAMME IN MODERN LANGUAGES AND EUROPEAN STUDIES

The Department of English Studies participates in the interdisciplinary programme in Modern Languages and European Studies, hosted by the Department of French Studies and Modern Languages. For further information please refer to the Department of French and European Studies.

### Compulsory Courses

#### Fall Semester / 1st Year

ENG 101 Academic Communication in English

#### Spring Semester / 1st Year

ENG 103 Academic Essay Writing

#### Fall Semester / 2nd Year

ENG 239 Introduction to Cultural Criticism

ENG 279 Introduction to Critical Thinking

#### Spring Semester / 2nd Year

ENG 249 Frontiers of/in Europe

### Elective Courses

ENG 501 Literature and the Art of Living

ENG 502 Literature and Utopia in Early Modern England

ENG 503 Narratives of Home and Homelessness in Europe

ENG 506 European Modern Drama

ENG 532 The Literature of the Uncanny

ENG 552 Language Contact in Europe

ENG 554 Language and Gender

ENG 588 Translation, Poetics, Film

ENG 508 Philosophy and Poetics in European Cinema

ENG 578 Gender in Translation

ENG 582 Film Adaptation, Cross Cultural Transfers and  
Creative Appropriations

ENG 513 Existentialism in Literature and Film

ENG 592 Issues in Cultural Translation

ENG 590 Translating for the EU Institutions

ENG 539 Key Issues in Aesthetics

## COURSE DESCRIPTIONS

### ENG 239 Introduction to Cultural Criticism (5 ECTS)

The course will familiarize students with the methodological and theoretical concerns involved in the comparative study and analysis of culture(s). Particular emphasis will be given to the main debates surrounding the concept of culture and its historical development, the distinction between "high culture" and "popular culture," the class, race and gender politics of canonicity, the epistemological and ethical stakes entailed in any attempt to understand other cultures and unfamiliar forms of cultural production. A broad range of activities and objects will be analysed in relation to historical or geographical mappings, political and economic contexts, official and marginal discourses.

### ENG 249 Frontiers of/in Europe (5 ECTS)

The concept of Europe has been defined with respect to both its internal borders and its external limits. The course surveys two areas: a) the expansion into space and the redefinition of the concept of Europe and European identities and b) the different criteria – climatic, anthropological, cultural, religious, linguistic, (geo)political – by which Europe-internal borders have been (re)drawn. Towards revealing the blurriness and shifting character of such frontiers, a multidisciplinary approach is adopted, with a special emphasis on case studies of the (incomplete) European expansion: the Polish plains and the Baltic, Scandinavia, the Iberian Peninsula, Cyprus, North Africa, the Balkans and Turkey.

### ENG 279 Introduction to Critical Thinking (5 ECTS)

This course aims at helping students acquire the analytic, critical and reflective skills necessary for their development as discriminating readers and effective writers. Through the careful analysis of a wide range of texts (journalistic, scientific, philosophical, literary) and cultural artefacts (photographs, videos, films, artworks), the students will learn the basics of inductive and deductive reasoning and will develop the ability to select and evaluate information, analyse genre, style and tone, interpret and engage with ideas, draw informed conclusions and formulate persuasive arguments.

## COLLABORATION

The Department has links with universities abroad and international institutions to promote research, collaboration and exchange of faculty and students.





Faculty of Humanities

## ● ● ● ● Department of French and European Studies

[www.ucy.ac.cy/frml/fr](http://www.ucy.ac.cy/frml/fr)

### **CHAIRPERSON**

Yiannis Ioannou

### **VICE-CHAIRPERSON**

Panayiotis Christias

### **PROFESSORS**

May Chehab

Yiannis Ioannou

### **ASSOCIATE PROFESSORS**

Fabienne H. Baider

Panayiotis Christias

### **ASSISTANT PROFESSORS**

Fryni Doa

## ACADEMIC PROGRAMME

The Department of French and European Studies is offering (through admission by the same entrance examinations) two undergraduate degrees:

- French Language and Literature
- Modern Languages and European Studies

These two undergraduate degrees offer contemporary education and training. Students who successfully complete the programme may pursue a career in Cyprus or abroad, not only as teachers and/or ambassadors of French language and Civilization, but as European citizens as well (fluent in three or four languages, Greek, English, French and/or German). The new structure of the B.A. consists of two different tracks, with common courses.

### A. DEGREE IN FRENCH LANGUAGE AND LITERATURE

This area of specialization, French Language and Literature gives the opportunity to students to develop advanced communication skills in the French language and to engage in depth with French Linguistics and culture, arts and cinema. Students who successfully complete the programme may pursue a career in teaching, journalism, Public or Foreign Service, and professional translation. As it happens with other degrees too, the Degree in French Language and Literature may open new horizons for a successful professional career.

### Degree in French Language and Literature Requirements

In order to obtain the Degree in French Language and Literature, students must take and successfully complete the courses corresponding to a minimum of 240 ECTS. These courses include: 1) compulsory courses, 2) foreign language courses and 3) elective courses.

### Compulsory Courses

FES 102 Oral Discourse I  
FES 103 Written Discourse I  
FES 104 Written Discourse II  
FES 112 Introduction to the French-speaking World  
FES 113 Introduction to the European World  
FES 131 Contemporary French Society  
FES 171 Introduction to Research Tools  
FES 202 French for Academic Purposes I  
FES 203 French for Academic Purposes II  
FES 204 Oral Discourse II. Phonetics  
FES 220 Francophone Cyber-Cultures  
FES 222 Popular Cultures & French as Foreign Language  
FES 361 Translation Theories  
FES 362 Translation Practices  
FES 370 Research Methodology  
FES 373 Professional communication / Communication in workplace

FES 375 French in Europe

FES 404 French for Academic Purposes III

FES 430–439 Two Courses of the thematic area *Cinema – Visual Arts – Communication*.

FES 100-499 Two Courses of the thematic area *Didactics*

FES 472 Final Undergraduate Thesis (with a prerequisite of 180 ECTS)

ENG 101 Academic Communication in English

This list is enriched with additional compulsory courses such as French Literature, Linguistics, as well as courses focusing on European Thought and European Culture and Visual Arts. They are announced with their codes at the beginning of each semester.

### Additional Compulsory Courses (examples)

FES 100 Introduction à la Linguistique  
FES 105 De la Grammaire à la Linguistique I  
FES 106 De la Grammaire à la Linguistique II  
FES 132 Histoire de la Civilisation Française  
FES 134 Principles of Contemporary Teaching of French as Foreign Language  
FES 140 Histoire de la Littérature Française  
FES 200 Morphosyntaxe  
FES 201 Syntaxe  
FES 230 La France du XXe siècle  
FES 239 The Legacy of French Revolution  
FES 240 Littérature Moderne (1870-1945)  
FES 241 Littérature Contemporaine (1945-)  
FES 242 Littérature Baroque et Classique  
FES 244 Neology and Vocabulary Renewal  
FES 282 La bataille des langues en Europe  
FES 290 Introduction to European Literature  
FES 300 Lexicologie – Lexicographie  
FES 301 Sociolinguistique  
FES 302 Analyse Linguistique du Texte  
FES 303 Phonologie  
FES 310 Langue, Histoire et Société  
FES 325 European Literatures  
FES 330 The European Integration (Jean Monnet Module)  
FES 340 Littérature du XIXe siècle  
FES 342 Littérature de la Renaissance  
FES 343 Littérature du XVIIIe siècle  
FES 350 Littérature Comparée  
FES 391 Intellectual Movements in Europe: Renaissance, Reform, Enlightenment  
FES 392 The Archipelago of European Thinking

- FES 411 Discourses, Society, and Ideology: the French Media
- FES 420 Discourse in the framework of European Enlightenment
- FES 425 Economy as Bio-politics in Foucault
- FES 428 Introduction to Theories of Beauty
- FES 430 The European Film Tradition
- FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films
- FES 444 Introduction to the Theory of "Sublime"
- FES 483 European Art and Greek Mythology

### Foreign Languages Courses

Three levels of the same foreign language (the Department recommends French), offered by the Language Centre, total credit: **15 ECTS**.

### Elective Courses

Any course within the University, except courses of the Department of French and European Studies, is considered an optional course. At least **16 ECTS** must be chosen from three different Faculties of the University. Courses offered by the Language Centre and the Sports Centre are considered as courses provided by Independent Faculties.

In all semesters, summer semester included, students also have the opportunity to enrol once in FES 150 Independent study (3 ECTS) and FES 250 Research Experience (6 ECTS). The registration depends on the approval of a supervising professor in the Department.

According to the Senate decision (no. 2/2006, § 3.9.2.1), all students who voluntarily attend public lectures, workshops and conferences, organized by the University's Departments or the Centre for Teaching and Learning (20 hours of intensive courses=1 ECTS), may be credited with 2 ECTS during the 4 years of their studies. The Department recommends that all first year students get the Bulletin from the Academic Affairs and Student Welfare Service.

### Minor Degree

In conjunction with their undergraduate programme in French Language and Literature, students may also enrol in a Minor programme in European Studies. In addition to the courses common to both tracks, which are recognized by the Departmental Board upon a simple request, they must pass five more courses: 2 FES, 1 SPS, 1 HIST and 1 LAW.

## B. DEGREE IN MODERN LANGUAGES AND EUROPEAN STUDIES

Students of the Modern Languages and European Studies track will be given the opportunity to develop advanced skills in French and/or English and/or German language and to engage in depth with European Thought and European Cultural and Film Studies. They will have a sound background in Human Sciences and Social and Political Sciences, with emphasis on European Studies' matters. They will be able to pursue a career on professional fields where this kind of specialization is necessary, such as the EU institu-

tions and services, Public and Foreign Service, cultural organisations, foundations, enterprises, NGOs, etc.

### Degree in Modern Languages and European Studies Requirements

In order to obtain the Degree in Modern Languages and European Studies, students must take and successfully complete the courses corresponding to a minimum of 240 ECTS. These courses include: 1) compulsory courses, taught in the two languages the student has chosen, 2) courses provided by the Departments of English Studies, History, Social & Political Sciences, Law, and the Language Centre, and 3) elective courses.

### ENGLISH-FRENCH COMBINATION

#### Compulsory Courses

- FES 102 Oral Discourse I
- FES 103 Written Discourse I
- FES 104 Written Discourse II
- FES 112 Introduction to the French-speaking world
- FES 113 Introduction to the European World
- FES 131 Contemporary French Society
- FES 171 Introduction to Research Tools
- FES 202 French for Academic Purposes I
- FES 203 French for Academic Purposes II
- FES 204 Oral Discourse II. Phonetics
- FES 220 Francophone Cyber-Cultures
- FES 222 Popular Cultures & French as Foreign Language
- FES 361 Translation Theories
- FES 362 Translation Practices
- FES 370 Research Methodology
- FES 373 Professional Communication / Communication in Workplace
- FES 375 French in Europe
- FES 404 French for Academic Purposes III
- FES 430–439 Two Courses of the thematic area *Cinema – Visual Arts – Communication*.
- FES 475 Final Undergraduate Thesis or two FES courses (with a prerequisite of 180 ECTS)

This list is enriched with additional compulsory courses focusing on European Thought and European Culture and Visual Arts. They are announced with their codes at the beginning of each semester.

#### Additional Compulsory Courses (examples)

- FES 234 Europe in French media: Ideologies and Political Speech
- FES 244 Neology and Vocabulary Renewal
- FES 245 The Rhetorics of Advertising
- FES 282 La Bataille des Langues en Europe



FES 290 Introduction to European Literature  
 FES 310 Langue, Histoire et Société  
 FES 325 European Literatures  
 FES 330 The European Integration (Jean Monnet Module)  
 FES 350 Littérature Comparée  
 FES 364 Europe – Mosaic of Languages  
 FES 391 Intellectual Movements in Europe:  
     Renaissance, Reform, Enlightenment  
 FES 392 The Archipelago of European Thinking  
 FES 393 Love and Politics  
 FES 411 Discourses, Society, and Ideology: The French Media  
 FES 420 Discourse in the framework of European  
     Enlightenment  
 FES 425 Economy as Bio-politics in Foucault  
 FES 428 Introduction to Theories of Beauty  
 FES 430 The European Film Tradition  
 FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films  
 FES 442 Philosophy of Money  
 FES 444 Introduction to the Theory of "Sublime"  
 FES 483 European Art and Greek Mythology

**Courses provided by the Departments of English Studies, History, Social & Political Sciences, Law, and Language Centre (cf. the descriptions provided by each Department on their respective site)**

ENG 101 Academic Communication in English  
 ENG 103 Academic Essay Writing  
 ENG 239 Introduction to Cultural Criticism  
 ENG 249 Frontiers of/in Europe  
 ENG 279 Introduction to Critical Thinking  
 LAN 203 English for European and International Relations  
 2 HIST Courses  
 (announced at the beginning of each semester)  
 2 SPS Courses (SPS 251 and SPS 266)  
 2 LAW Courses  
 (announced at the beginning of each semester)

**Elective Courses**

Any course within the University, except courses of the Department of French and European Studies, is considered an optional course. At least **12 ECTS** must be chosen from three different Faculties of the University. Courses offered by the Language Centre and the Sports Centre are considered as courses provided by Independent Faculties.

In all semesters, summer semester included, students also have the opportunity to enrol once in FES 150 Independent study (3 ECTS) and FES 250 Research Experience (6 ECTS). The registration depends on the approval of a supervising professor in the Department.

According to the Senate decision (no. 2/2006, § 3.9.2.1), all students who voluntarily attend public lectures, workshops and conferences, organised by the University's Departments or the Centre for Teaching and Learning (20 hours of intensive courses=1 ECTS), may be credited with 2 ECTS during the four years of their studies. The Department recommends that all first year students get the Bulletin from the Academic Affairs and Student Welfare Service.

**Minor Degree**

In conjunction with the undergraduate programme in European Studies, students may also enrol in a Minor programme in French Language and Literature. In addition to the courses common to both tracks, which are recognized by the Departmental Board upon a simple request, they must pass 5 more FES courses taught in French.

**FRENCH-GERMAN COMBINATION**

**Compulsory Courses**

FES 102 Oral Discourse I  
 FES 103 Written Discourse I  
 FES 104 Written Discourse II  
 FES 109 Schriftliche Ausdruckstechniken  
     (Written Expression Techniques)  
 FES 112 Introduction to the French-speaking World  
 FES 113 Introduction to the European World  
 FES 131 Contemporary French Society  
 FES 171 Introduction to Research Tools  
 FES 180 Academic German I  
 FES 181 Deutsch in der Sozialwissenschaft  
     (German in Social Sciences)  
 FES 202 French for Academic Purposes I  
 FES 203 French for Academic Purposes II  
 FES 204 Oral Discourse II. Phonetics  
 FES 220 Francophone Cyber-Cultures  
 FES 222 Popular Cultures & French as Foreign Language  
 FES 280 Academic German II  
 FES 361 Translation Theories  
 FES 362 Translation Practices  
 FES 370 Research Methodology  
 FES 373 Professional Communication/Communication  
     in Workplace  
 FES 375 French in Europe  
 FES 376 Deutsch für Europäische Beziehungen  
     (German for European Relations)  
 FES 404 French for Academic Purposes III  
 FES 430-439 Two Courses of the thematic area *Cinema – Visual Arts – Communication*.  
 FES 475 Final Undergraduate Thesis or two FES courses  
     (with a prerequisite of 180 ECTS)

This list is enriched with additional compulsory courses focusing on European Thought and European Culture and Visual Arts. They are announced with their codes at the beginning of each semester.

### Additional Compulsory Courses (examples)

- FES 234 Europe in French media:  
ideologies and political speech
- FES 244 Neology and Vocabulary Renewal
- FES 245 The Rhetorics of Advertising
- FES 282 La Bataille des Langues en Europe
- FES 290 Introduction to European Literature
- FES 310 Langue, Histoire et Société
- FES 325 European Literatures
- FES 330 The European Integration (Jean Monnet Module)
- FES 350 Littérature Comparée
- FES 364 Europe – Mosaic of Languages
- FES 391 Intellectual Movements in Europe:  
Renaissance, Reform, Enlightenment
- FES 392 The Archipelago of European Thinking
- FES 393 Love and Politics
- FES 411 Discourses, Society, and Ideology: The French Media
- FES 420 Discourse in the framework of European  
Enlightenment
- FES 425 Economy as Bio-politics in Foucault
- FES 428 Introduction to Theories of Beauty
- FES 430 The European Film Tradition
- FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films
- FES 442 Philosophy of Money
- FES 444 Introduction to the Theory of "Sublime"
- FES 483 European Art and Greek Mythology

### Courses Provided by the Departments of History, Social & Political Sciences, and Law

- 2 HIST Courses  
(announced at the beginning of each semester)
- 2 SPS Courses (SPS 251 and SPS 266)
- 2 LAW Courses  
(announced at the beginning of each semester)

### Elective Courses

Any course within the University, except courses of the Department of French and European Studies, is considered an optional course. At least **12 ECTS** must be chosen from at least three different Faculties of the University. Courses offered by the Language Centre and the Sports Centre are considered as courses provided by Independent Faculties.

In all semesters, summer semester included, students also have the opportunity to enrol once in FES 150 Independent study (3 ECTS) and FES 250 Research Experience (6 ECTS).

The registration depends on the approval of a supervising professor in the Department.

According to the Senate decision (no. 2/2006, § 3.9.2.1), all students who voluntarily attend public lectures, workshops and conferences, organised by the University's Departments or the Centre for Teaching and Learning (20 hours of intensive courses=1 ECTS), may be credited with 2 ECTS during the four years of their studies. The Department recommends that all first year students get the Bulletin from the Academic Affairs and Student Welfare Service.

### Minor Degree

In conjunction with the undergraduate programme in European Studies, students may also enrol in a Minor programme in French Language and Literature. In addition to the courses common to both tracks, which are recognized by the Departmental Board upon a simple request, they must pass 5 more FES courses taught in French.

## ENGLISH-GERMAN COMBINATION

### Compulsory Courses

- FES 109 Schriftliche Ausdruckstechniken  
(Written Expression Techniques)
- FES 120 Deutsche Kultur (German culture)
- FES 121 Mündliche Sprachproduktion  
(Oral Discourse Production)
- FES 122 Schriftliche Sprachproduktion  
(Written Discourse Production/Writing Skills)
- FES 171 Introduction to Research Tools
- FES 180 Deutsch für Akademiker I (Academic German I)
- FES 181 Deutsch in der Sozialwissenschaft  
(German in Social Sciences)
- FES 182 Deutsche Populärkultur und Deutsch als  
Fremdsprache (German Popular Culture and  
German as Foreign Language)
- FES 280 Deutsch für Akademiker II (Academic German II)
- FES 370 Research Methodology
- FES 374 Fachsprache für den Beruf  
(Professional Communication)
- FES 376 Deutsch für Europäische Beziehungen  
(German for European Relations)
- FES 380 Deutsch für Akademiker III (Academic German III)
- FES 381 Deutsch für Akademiker IV (Academic German IV)
- FES 475 Final Undergraduate Thesis or two FES courses  
(with a prerequisite of 180 ECTS)

This list is enriched with additional compulsory courses focusing on European Thought and European Culture and Visual Arts. They are announced with their codes at the beginning of each semester.

## Additional Compulsory Courses (examples)

FES 234 Europe in French media:  
ideologies and political speech  
FES 244 Neology and Vocabulary Renewal  
FES 245 The Rhetorics of Advertising  
FES 282 La Bataille des Langues en Europe  
FES 290 Introduction to European Literature  
FES 310 Langue, histoire et société  
FES 325 European Literatures  
FES 330 The European Integration  
(Jean Monnet Module)  
FES 350 Littérature comparée  
FES 364 Europe – Mosaic of Languages  
FES 391 Intellectual Movements in Europe:  
Renaissance, Reform, Enlightenment  
FES 392 The Archipelago of European Thinking  
FES 393 Love and Politics  
FES 411 Discourses, Society, and Ideology:  
The French Media  
FES 420 Discourse in the framework of European  
Enlightenment  
FES 425 Economy as Bio-politics in Foucault  
FES 428 Introduction to Theories of Beauty  
FES 430 The European Film Tradition  
FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films  
FES 442 Philosophy of Money  
FES 444 Introduction to the Theory of "Sublime"  
FES 483 European Art and Greek Mythology

## Courses provided by the Departments of English Studies, History, Social & Political Sciences, Law, and the Language Centre (cf. the descriptions provided by each Department on their respective site)

ENG 101 Academic Communication in English  
ENG 103 Academic Essay Writing  
ENG 239 Introduction to Cultural Criticism  
ENG 249 Frontiers of/in Europe  
ENG 279 Introduction to Critical Thinking  
ENG 500 Elective Course of the thematic area *Cinema*  
ENG 500 Elective Course of the thematic *Translation Studies*  
ENG 590 Translating for the European Union Institutions  
LAN 202 Public Speaking  
LAN 203 English for European and International Relations  
2 HIST Courses  
(announced at the beginning of each semester)  
2 SPS Courses (SPS 251 and SPS 266)  
2 LAW Courses  
(announced at the beginning of each semester)

## Elective Courses

Any course within the University, except courses of the Department of French and European Studies, is considered an optional course. At least **15 ECTS** must be chosen from three different Faculties of the University. Courses offered by the Language Centre and the Sports Centre are considered as courses provided by Independent Faculties.

In all semesters, summer semester included, students also have the opportunity to enrol once in FES 150 Independent study (3 ECTS) and FES 250 Research Experience (6 ECTS). The registration depends on the approval of a supervising professor in the Department.

According to the Senate decision (no. 2/2006, § 3.9.2.1), all students who voluntarily attend public lectures, workshops and conferences, organized by the University's Departments or the Centre for Teaching and Learning (20 hours of intensive courses=1 ECTS), may be credited with 2 ECTS during the four years of their studies. The Department recommends that all first year students get the Bulletin from the Academic Affairs and Student Welfare Service.

*NB: students of the language combination German-English do not have the opportunity to enrol in a Minor programme in French Language and Literature.*

## DESCRIPTION OF COURSES

### A. Compulsory Courses

#### FES 102 Oral Discourse I

This course aims at helping students develop skills for understanding and speaking in French. In particular, students are familiarized with the different ways of expressing themselves as well as communicating in various types of communication circumstances (speech, dialogue, discussion, activities in the context of research, etc.). Furthermore, the course aims at helping students to develop techniques of listening, understanding and structuring meaning, through authentic listening and audio-visual material, and, also, multiple skills in speaking. The students learn: 1) how to explain the content of an audio file or a video, 2) how to speak, presenting and supporting their point of view with arguments, 3) how to apply language skills to diverse social situations, and 4) how to prepare an oral presentation.

#### FES 103 Written Discourse I

This course presents an overview of French grammar. Through understanding of authentic texts, the basic grammatical structures as well as their components are examined (voices, moods, tenses, inflection, etc.). Students undertake short assignments, individually or in groups, in order to improve their skills in written discourse, focusing on grammar and spelling. The course aims at identifying students' difficulties in French grammar and at the same time, strengthening their written skills.

#### FES 104 Written Discourse II

This course is the continuation of Written Language I. Therefore, students must be familiar with the simple



structures of written French. Based on the understanding of authentic documents, the course focuses on more complex structures (such as embedded clauses). Upon completion of this course, students should be able to produce sentences expressing causality, purpose, time, etc. Students prepare individual and/or team assignments, in order to improve their skills in written discourse, the emphasis being on grammar and spelling. The course aims at helping students to a) engage in depth with French grammar, b) identify their particular difficulties in grammar skills, and c) apply rules in written discourse.

#### **FES 109 Schriftliche Ausdruckstechniken (Written Expression Techniques)**

This course is taught in German. In this course, students will be introduced to and will deal with various types of texts (literary, journalistic, historical texts, etc.). The students will learn how to approach these texts in an academic way in order to be able to reflect and reproduce their contents. This can be done in the form of a summary, a report or an essay.

#### **FES 112 Introduction to the French Speaking World**

The course which addresses new students presents firstly, the French speaking world, and later on the contemporary French society. The students have the opportunity to learn about French customs, to better understand the current trends of French society and also of the French speaking community. In particular, the course focuses on four fields, as regards the French speaking world: 1) history and evolution of the French speaking world, 2) customs, 3) arts, and 4) the influence of French language and culture on Cyprus.

#### **FES 113 Introduction to the European world**

The course aims at providing new students with introductory knowledge about the cultural reality of a changing Europe. In this framework, the course presents and analyses issues regarding culture and evolution of Europe (languages, religions, population, arts, multilingualism, education, institutions, etc.).

#### **FES 121 Mündliche Sprachproduktion (Oral Discourse Production)**

This course aims at helping students acquire the necessary skills for oral communication in German. Various methods of instruction will help students to improve their oral communication skills as well as their auditory skills. Students will learn how to take part in discussions about a variety of topics concerning culture, politics and society. With the help of practical language exercises, students will learn how to a) discuss and exchange arguments b) draw conclusions and c) summarise discussions.

#### **FES 122 Schriftliche Sprachproduktion (Writing Skills)**

In this course students will practice and improve their writing skills in German. With the help of various methods of instruction, students will acquire important linguistic means for the written language. A variety of writing exercises will help to practice and foster the knowledge of

these means. Furthermore, the students will acquire basic knowledge in academic writing and official written communication.

#### **FES 131 Contemporary French Society**

This course presents a general picture of the French society transformation since World War II. The economic, political and social mutation of French society since 1945 will be examined and analysed on the basis of various documents (texts, pictures, audiovisuals, etc.). The course aims at helping students to better understand the current trends of French society, as well as improving their knowledge in French. Upon the completion of this course, students will improve their knowledge of spoken and written French. Students will be able to 1) understand and explain a statement, as well as communicate its main meaning, 2) present and comment a newspaper article, and 3) explain some historical facts which have been examined in the course. Students will be able to understand the general change within the modern French society, as well as to link the political and social movements, arts and ideas.

#### **FES 171 Introduction to Research Tools**

The course teaches students the basic knowledge of information technology which is essential to carry on studies in the Humanities. It introduces tools used for carrying out bibliographic research (such as software and search engines or library search techniques). It also teaches students to collect, exploit and present the data they have found, providing advanced knowledge of office software. Furthermore, it introduces students to the computer networks and e-services available at the University, the internet browsers and presents the use and management of multimedia files and software. Upon completion of this course, students will be able to carry on simple bibliographic research, use word processors and audio software, as well as familiarize themselves with the basic rules of Internet browsing for academic research.

#### **FES 180 Deutsch für Akademiker I (German for Academic Purposes I)**

This course is taught in German and it focuses on: 1) extending further knowledge of German morphology and syntax, 2) developing their ability to produce grammatically correct and well-structured sentences, and 3) the introduction of more complex language structures and syntax problems (especially as regards the word order, verbal groups, choice of prepositions). On the completion of the course, students will have mastered German spelling and important grammatical structures. They will pass from the sentence syntax to the construction of meaning and they will make use of the strategies and the tools which are necessary for the production of more complex texts.

#### **FES 181 Deutsch in der Sozialwissenschaft (German for Social Studies)**

This course provides students with fundamental knowledge of academic working in German contexts. Therefore, basic elements of the German academic culture will be explained and explored. The course emphasizes two

topics: 1) philological working skills and 2) German as a foreign language in the academic field. Topic 1 will comprise essential academic working skills such as writing a bibliography, working with libraries and databases, literature search as well as formal aspects of written work and oral presentations. Topic 2 will deal with German as an academic language. With the help of practical language exercises, students will be introduced to writing in German in an academic context.

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#### **FES 182 Deutsche Populärkultur und Deutsch als Fremdsprache (German Popular Culture and German as a Foreign Language)**

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The purpose of this course is to provide students with knowledge of regional and cultural topics in Germany, Switzerland and Austria. Furthermore, students will improve their knowledge of the German language. With the help of various media (press, television, internet) a variety of topics will be introduced and emphasized. Students will gain an overview of German popular culture, as well as reflecting on different aspects of their own culture. Additionally, students will be taught how to express (oral and written) themselves and their views on these topics.

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#### **FES 202 French for Academic Purposes I**

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The course gradually introduces students to the production of a structured work at the level of an academic essay. The course focuses on the identification of the structure organizing a text and the production of a coherent text, syntactically and grammatically correct. The course furthers the following language skills: 1) understanding of academic texts as well as explanation and presentation of a textual context, 2) capacity of commenting such texts, 3) capacity of writing in a cohesive way an essay with paragraphs, introduction, linking words and conclusions, in the framework of academic content.

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#### **FES 203 French for Academic Purposes II**

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This course is the continuation of FES 202, focusing on the production of academic French. It presents the reading methodology for texts, how to identify basic ideas and their logical articulation, as well as how to summarize and reformulate the information provided. The course aims at developing students' comprehension and production skills in written and spoken French. Through consecutive activities, students will be able to identify the main ideas of the text, reformulate them in a cohesive manner and articulate them, using logical links.

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#### **FES 204 Oral Discourse II. Phonetics**

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Based on the techniques and knowledge learnt in FES 102, comprehension skills are further developed, as well as production of spoken French in various social environments (continuous speech, dialogue, debates, conversations, etc.). The course aims at improving students' pronunciation thanks to the emphasis on rhythm, intonation, and other phonological phenomena. The course also introduces the IPA (International Phonetic Alphabet). The course aims at helping students to interact with a certain degree of comfort, spontaneity and control of their vocal ability,

allowing normal interaction with francophone speakers. Students are also expected to be able to take active part in a discussion in familiar environment, explaining and supporting their point of view.

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#### **FES 220 Francophone Cyber-Cultures**

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The course focuses on acquiring knowledge on information and communication technologies (ICT), as taught in the e-French class. The course consists of activities that will help the students to familiarize themselves with French language structure that they have already acquired, in both written and oral discourse. Using French speaking audiovisuals available on the Internet, students will participate in discussions on online forums, responding to existing information and seeking for new. The course is therefore based on collaborative learning, students being actors in the training process through the interactive discussion, as a result of their interaction and the feedback they get. The course aims at developing the students' skills in written and oral discourse through the use of synchronous and asynchronous communication tools, allowing interactive discussions between the learners, engaging them in a community with common learning objectives. Students also develop autonomy, to learn by themselves.

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#### **FES 222 Popular Cultures and French as a Foreign Language**

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Popular culture is considered a privileged field of familiarization with current presentation where students can discover different ways of life and different values. The course adopts an intercultural approach and introduce the 21st French society, mainly through music, cultural media (such as TV, radio, internet) and in the framework of the progressive globalization. The course provides as well a space for reflecting on various aspects of the students' own cultures. Through exercises using various cultural artefacts (audiovisuals, texts, etc.) students will learn to understand, contextualize and interpret aspects of popular culture in the current French speaking world.

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#### **FES 280 Deutsch für Akademiker II (German for Academic Purposes II)**

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This course is taught in German and focuses on familiarization with text cohesion elements and the ability to write cohesive paragraphs. Students exercise in writing and re-writing, and, in particular, improve in formulating paragraphs, introductions, transitions and conclusions of complex comments and essays. At the end of the semester, students will have acquired the expressions stating cause or effect, intention and opposition or concession. They will also be able to formulate in a cohesive manner paragraphs, transitions and conclusions.

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#### **FES 361 Translation Theories**

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This course first presents a brief history of translational considerations (prescriptive, descriptive and prospective theories) and some contemporary approaches, such as those proposed by Jakobson, W. Benjamin, Blanchot, G. Mounin, J.-R. Ladmiral, G. Steiner, R. Amossy, A. Berman, H.

Meschonnic, P. Ricoeur, U. Eco, etc. It then provides students with some common places about the process of translation (concepts of fidelity, readability and transparency, the Babel Myth, the hermeneutic approach to translation, etc.). Finally, it proposes, on an indicative basis, to study texts of general content. The course aims at presenting some important aspects of the phenomenon of translation, questioning certain stereotypes regarding translation (such as translation as "automated" or "secondary" procedure), while providing students with theoretical insights that will help them move on to the practice of translation.

### **FES 362 Translation Practices**

This course aims at establishing, through a number of translation exercises (from French into the mother tongue and vice versa), a typology of the most dominant errors and problems that may arise through the process of translation in the French-Greek language pair. It consists mainly of practical exercises on a selection of literary (prose and poetry) and non-literary texts (medicine, computer science, biology, anthropology, archaeology, as well as advertising and journalistic texts). It investigates specific issues: translation of metaphors, neologisms and/or terminology. Its objective is to increase students' awareness on the mechanisms and pitfalls being involved in the act of translating from one language-culture into another (automatisms, interactions, cultural codes, etc.).

### **FES 370 Research Methodology**

This course includes three units: theoretical, heuristic and technical. On the theoretical level: a positive heuristic; a negative heuristic; blind search; the corpus as a heuristic object, serendipity. Heuristic: to find by chance; to find by trial and error; to carry on a systematic search; to use databases, etc. Technical: to define the topic; to establish a corpus. Check the research done on the topic; to define theoretical and critical approaches; to learn about the bibliography, the references, the quotation and their various norms; the annotation.

### **FES 373 Professional Communication / Communication in Workplace**

The course examines the necessary techniques as far as spoken and written French are concerned for a job search in French speaking environments, as well as the necessary linguistic tools. The course helps students to acquire the necessary skills they need as job candidates in French and to provide guidance in preparing a Curriculum Vitae and a cover letter. Students will also be trained in taking hiring interviews. The course aims at helping students to develop language skills in order to prepare candidates in French speaking environments in Europe, by familiarizing them with techniques required for written and oral discourse.

### **FES 374 Fachsprache für den Beruf (Business German)**

The course focuses on: 1) the nature and specificities of German businesses and 2) the knowledge of German for trade relationships. Awareness of intercultural relations will be complemented by the acquisition of practical knowledge (such as writing a CV, oral and written business

communication, etc.). With the help of various methods of instruction, students will be introduced to German in the field of business.

### **FES 375 French in Europe**

This course familiarizes students with the most important European issues while using the French language. More specifically, it focuses on lexical fields used in various European institutions, as well as the vocabulary necessary to relate to European politics. Through activities students will get familiarized with professional environments within European institutions. Upon completion of this course, students will be able to: 1) understand European institutions and to describe them using the French language, 2) develop their skills in written and spoken French, while working on texts originating from various European institute, and 3) describe, discuss and/or support a European proposal/policy in French language.

### **FES 376 Deutsch für Europäische Beziehungen (German in European Relations)**

The purpose of this specialization course is to provide students with knowledge of European and international relations through the medium of German and to encourage the use of the German language in this specific context. The course will be organized around selected themes and will also include missions aiming at improving understanding and using German in selected fields. For example, the course may include a simulation of an international meeting, discussing its agenda, work in committees and preparation of common findings. Issues discussed in the course will be the functioning of European and international institutions, the mechanisms of political and financial cooperation, diplomacy and international negotiation, international agreements and their drafting, Non-Governmental Organisations, etc.

### **FES 404 French for Academic Purposes III**

The course is based on the knowledge acquired during the course French for Academic Purposes II and it further promotes the familiarization of the students with academic texts in French. In particular, the course: 1) studies reference and composition texts, 2) introduces students to the relevant techniques. The course aims at helping students to identify the main and secondary ideas in academic texts, to spot the terms that lead to the cohesion of such texts and to compare that proposed ideas, while improving their skills in written discourse production.

### **FES 472 Thesis**

In order to receive a Degree in French Language and Literature, students are required to write a thesis. The topic is chosen together with the professor who will be supervising the research. 20 - 30 pages are expected, including the bibliography. This course will teach the students to manage a first lengthy research essay, i.e. respecting a deadline and norms of presentation, being aware of the quality and relevancy of the research as well as the argumentation and the conformation to scientific ethics. Registration in FES 472 Thesis requires students to have 180 ECTS.



## B. Alternative Compulsory Courses

For example:

### FES 100 Introduction à la Linguistique

Les points traités dans ce cours, qui constituent des concepts fondamentaux pour les cours de linguistique qui vont suivre sont: le langage et les langues; de l'écriture à la linguistique; en quoi la linguistique est-elle une science? langue, langage, parole; norme et usage; la communication; les signes (notamment le signe linguistique: signifié, signifiant, référent); la langue comme système (structures, outils d'analyse). Les étudiants apprendront à définir la linguistique et ses différents domaines (phonétique, phonologie, morphologie, syntaxe, sémantique, sociolinguistique), à donner des exemples relatifs à chacun d'entre eux.)

### FES 105 De la Grammaire à la Linguistique I

Le cours a pour but de faciliter le passage de la grammaire traditionnelle à la linguistique. Une bonne maîtrise de la grammaire de base est nécessaire. Plus précisément, les étudiants étudieront et réinvestiront la notion de grammaire et de linguistique, la morphologie flexionnelle et dérivationnelle, le morphème et le lexème, les parties du discours et les catégories de mots, la phrase simple, les subordonnées de la phrase complexe, la phrase verbale, les voix, les modes, les valeurs temporelles, l'aspect.)

### FES 106 De la Grammaire à la Linguistique II

Faisant suite au cours FES 105, ce cours est consacré à l'étude des phrases plus complexes, aux définitions et aux principes fondamentaux de la syntaxe appliquée du français et à l'initiation aux différentes approches en syntaxe du français: notionnelle, fonctionnelle et distributionnelle: l'approche notionnelle et la révision des natures et des fonctions des éléments de la phrase complexe; les éléments subordonnés au nom et au verbe; l'approche fonctionnaliste; l'approche distributionnaliste. Les étudiants sauront reconnaître les natures et les fonctions de la grammaire traditionnelle; analyser des phrases complexes selon des points de vue syntaxiques différents: approches notionnelle, fonctionnelle et distributionnelle.)

### FES 132 Histoire de la Civilisation Française

Présentation d'un panorama des grands thèmes de la civilisation française, du XI<sup>e</sup> siècle à la fin du XIX<sup>e</sup> siècle: Moyen Âge, Renaissance, Baroque, Classicisme, Lumières, Romantisme, Positivisme, Spiritualisme, Modernité, etc. Le cours a pour objectif de familiariser les étudiants avec les moments, les noms et les caractères d'une histoire de la culture européenne et française afin de leur fournir les points de repère indispensables dans la suite de leur cursus. L'objectif est également de montrer, que les arts, les techniques, la science, les idées et la littérature ne sont pas des disciplines cloisonnées mais reliées.

### FES 134 Principles of Contemporary Teaching of French as Foreign Language

After examining theoretical aspects, students will be trained, on the basis of curricula and textbooks of French

as Foreign Languages, as used nowadays in schools of Secondary and Higher Education in Cyprus, along with the appropriate educational material for lesson planning (lesson plans and work sheets).

### FES 140 Histoire de la Littérature Française

Le cours présente, en progression chronologique, les grands courants de la littérature française et francophone du Moyen Âge au XXI<sup>e</sup> siècle, ainsi qu'une sélection de textes représentatifs. Parallèlement, il propose une première étude de la naissance et de l'évolution de certains genres littéraires en essayant de montrer les ruptures et les continuités les plus importantes de la littérature de langue française.

### FES 200 Morphosyntaxe

Le cours rappelle et traite les points suivants: morphologie, syntaxe, morphosyntaxe; parties du discours, classes de mots et de morphèmes, axe paradigmatique, axe syntagmatique; unités d'analyse morphosyntaxique; constituants immédiats et analyse générativiste des phrases et syntagmes (structures arborescentes); groupe nominal: nom et déterminants; groupe verbal: temps et aspect. Les étudiants sauront identifier la nature et la fonction des mots dans un texte; analyser un mot en morphèmes; une phrase en structures arborescentes; un corpus à partir d'une consigne de nature morphosyntaxique; lire et discuter des extraits de grammaires de référence.)

### FES 201 Syntaxe

I- Grammaticalité / Acceptabilité, Énoncé / Énonciation, Syntagme / Paradigme, II- Opérations dans l'analyse syntaxique (Commutation, Effacement, Insertion, Déplacement, Permutation), III- Analyse en constituants immédiats, IV- Modalités de la phrase, V- Juxtaposition, Coordination, Corrélation, VI- Subordination. Le cours s'appuie sur des notions acquises dans le cours FES 200 Morphosyntaxe. Les étudiants maîtriseront des notions fondamentales en syntaxe (grammaticalité, acceptabilité, énoncé, énonciation, etc.). Ils sauront faire une analyse syntaxique de la phrase 1) selon le modèle de la théorie distributionnaliste et 2) en constituants immédiats. Ils sauront enfin maîtriser les problèmes syntaxiques relatifs à la subordination.

### FES 230 La France du XX<sup>e</sup> siècle

Ce cours couvre la période de la proclamation de la III<sup>e</sup> République jusqu'aux années 1980. 1870 1914: L'installation de la III<sup>e</sup> République; la société française; révolution industrielle et développement économique. L'entre-deux-guerres: les conséquences de la guerre; la crise des années 30. Depuis 1939: la France dans la seconde guerre mondiale. La IV<sup>e</sup> République: les trente glorieuses. La V<sup>e</sup> République: la crise économique; histoires des mœurs, des idées et de l'art. Les étudiants connaîtront ainsi pour chaque période l'histoire politique, sociale et économique ainsi que l'histoire des idées, de l'art et de la culture populaire du pays.)

### FES 234 L'Europe dans les Médias Français: Idéologies et Discours Politiques

Ce cours examine les discours dominants de la scène politique et intellectuelle française sur la question de l'Union européenne, et plus globalement du projet européen. L'étude des médias français permettra d'identifier les positionnements des personnalités du spectre politique français de l'extrême-gauche jusqu'à l'extrême-droite, afin de comprendre quelle idée de l'Europe est aujourd'hui diffusée dans les médias français, médias qui reflètent et influencent l'opinion publique française. Les étudiants comprendront comment se structure et se fait un débat d'idées dans les médias et ils comprendront le rôle essentiel joué par les médias dans la diffusion d'idéologies. Ils sauront déchiffrer les spécificités et éléments communs des divers discours sur la question européenne et situer idéologiquement ces points de vue.

### FES 239 The Legacy of French Revolution

The French Revolution (1789) is one of the most important events, not only in European, but also in world history. Despite its dark side (the Terror Era or the Napoleonic Tyranny that resulted to the restoration of the monarchy) or its exaggerations (such as changing calendar with a week of ten days and days of ten hours), its current legacy is invaluable: democratic principles (citizens' equality, religious freedom, etc.) proclamations (the Proclamation of Human and Citizen's Rights was voted in 1789), even concepts of political daily life, such as the idea of self-determination of peoples or the distinction between "Left" and "Right", are essentially a legacy of the social and political overturn brought by the French Revolution.

### FES 240 Littérature Moderne (1870-1945)

Le cours se propose d'ébaucher un tableau de la littérature moderne, de la fin du XIXe siècle à la Seconde guerre mondiale. Il examine l'œuvre des moralistes, l'esprit fin de siècle, le courant impressionniste, l'humanisme et le mysticisme nouveaux. Le cours met l'accent sur les éléments novateurs apportés par le mouvement surréaliste et sur ses présupposés, psychanalytiques notamment. Le cours a pour objectif l'étude des textes novateurs de la période étudiée afin de saisir l'interrogation morphologique et idéologique qui les accompagne et la mise en évidence d'équivalences avec les littératures européennes de la même période.

### FES 241 Littérature Contemporaine (1945- )

Le cours a pour objectif de présenter les grandes lignes de l'histoire de la littérature française contemporaine et d'initier les étudiants à la prose de l'après-guerre à travers l'étude de textes majeurs, représentatifs notamment du mouvement existentialiste, de la littérature de l'absurde et du Nouveau Roman.

### FES 242 Littérature Baroque et Classique

Le cours propose une étude de la littérature française du XVIIe siècle et met en relief la diversité de la création littéraire et artistique de cette période. Il approfondit aussi bien la poésie que les genres narratifs. La littérature d'idées,

la pensée religieuse et le théâtre font l'objet d'une attention particulière. Le cours a également pour objectif de montrer les rapports entre l'esthétique architecturale et littéraire par exemple, où dominant d'une part les thèmes de la métamorphose, de l'inconstance, de la fuite et du mouvement, et le souci de régularité, de vraisemblance et de permanence d'autre part.

### FES 244 Neology and Vocabulary Renewal

Neology as a basic mechanism for the renewal of the vocabulary of a language is a very important phenomenon to be studied, especially nowadays, when many new concepts are introduced on a daily basis, in every natural language, regarding different fields, scientific, technical, informal language, slang, etc. (for example, in Greek: touch screen/οθόνη αφής, tablet/τάμπλετ, grexit, google/γκουγκλάρω). This course examines basic principles of neology and analyses fundamental terms and concepts (neology definition, subject of research, mechanisms for the creation of new words, changes or transformations of existing concepts, phenomena and types of loans, etc.). The study is completed with observation and analysis of different types of texts (among others, EU texts, databases, general and specialised dictionaries, professionally translated texts, etc.).

### FES 245 Rhétorique de la Publicité

Le cours porte sur la notion de communication et met l'accent sur la publicité. Il traite différentes formes de communication (verbale, non-verbale, directe et indirecte) et il examine la façon dont les informations sont transmises au destinataire dans les messages publicitaires. Ce cours a pour objectif d'étudier: 1) la langue (écrite, audiovisuelle, langage du corps, paralangage etc.), 2) les figures de style (métonymie, métaphore, périphrase, l'allégorie, comparaison, parallélisme, hyperbole, litote etc.) paronomase et 3) la dimension culturelle du message publicitaire dans l'acte de communication. Les étudiants sauront comment la publicité communique avec son récepteur. Ils seront capables de comprendre, de traiter et d'évaluer les informations données dans la publicité.

### FES 282 La Bataille des Langues en Europe

Le cours entend montrer que les enjeux linguistiques sont simultanément des enjeux politiques. S'il faut se garder de trop facilement étiqueter de «nationaliste» l'attachement des peuples à leur langue lorsque c'est parfois tout ce qui leur reste pour «faire société» à l'heure de la libre circulation des capitaux, des biens et des services et de la course planétaire aux profits, il faut aussi se garder des réflexes identitaires face à l'ouverture vers le monde. Le cours examine des études de cas particuliers (Belgique, pays basque espagnol, Malte), comme des luttes que se livrent des langues européennes dominantes entre elles.)

### FES 290 Introduction to European Literature

European Literature, starting with the Homeric epics, was particularly developed after the invention of typography. Beyond the literature and famous writers of Europe presented in the course through their representative texts,

the course focuses on the issue of the existence of a "European literature". Also, which forms or principles are common, representing a European conscious or unconscious culture?

### **FES 300 Lexicologie – Lexicographie**

I- Communication; Sens; Signe linguistique, II- Lexicologie: Types de dictionnaires; La définition dans les dictionnaires de langue, III- Les analyses du sens lexical: analyse sémique ou componentielle, Prototypes et stéréotypes, IV- Relations sémantiques: hyperonymie et hyponymie, synonymie, antonymie, co-hyponymie, V- Polysémie et homonymie, métaphore, métonymie, synecdoque, VI- Formations des mots. Les étudiants maîtriseront les concepts élémentaires de la sémantique lexicale. Ils sauront 1) définir les différents types de dictionnaires et les différents types de définitions; 2) expliquer les procédés de formation des mots.

### **FES 301 Sociolinguistique**

Les notions traitées dans ce cours sont les suivantes: langue et usage; norme endogène et norme exogène; variable, variété et variation; l'enquête sociolinguistique: objectifs, outils, méthodologie; la variation géographique (langue, dialecte, géolecte, topolecte, parler et patois); l'exemple d'un topolecte particulier; le sociolecte (prestige latent et prestige apparent); le sexolecte; les situations de contact des langues; la diglossie et le bilinguisme; le créole, le pidgin et le sabir; les aspects du système linguistique d'un créole francophone; la planification linguistique et son importance politique dans la francophonie.

### **FES 302 Analyse Linguistique du Texte**

Les notions traitées dans ce cours sont les suivantes: analyse du texte; texte et discours; textualité; les rapports à l'intérieur de la phrase et en dehors de la phrase; la cohésion; la cohérence; la progression de l'information: thème et rhème; les types de progression thématique. Les étudiants sauront que les catégories grammaticales diffèrent des catégories textuelles, que des problèmes grammaticaux 'traditionnels' peuvent être diversement abordés; que la mise en texte requiert des compétences particulières. Ils sauront repérer les règles textuelles qui organisent un texte et les appliquer dans leurs propres productions.

### **FES 303 Phonologie**

Les points traités seront: phonétique articulatoire; phonétique combinatoire; interprétation phonologique de données; initiation à la théorie phonologique via les deux modèles structuraliste et générativiste. Les étudiants connaîtront les bases de la phonétique articulatoire, de la phonétique combinatoire et des phénomènes prosodiques. Ils sauront décrire les sons du français d'un point de vue articulatoire et connaîtront les oppositions phonologiques du système français. Sur la base d'un corpus, de consignes précises et en appliquant les deux modèles théoriques expliqués, ils pourront résoudre des problèmes phonologiques présentés dans le cours.)

### **FES 310 Langue, Histoire et Société**

Les notions traitées seront: les familles de langues du monde, le groupe indo-européen; la formation de la Romania et de l'Europe; le substrat et le superstrat; principes et lois de phonétique historique et leur application aux voyelles et aux consonnes; évolution morphologique du syntagme nominal; historique de l'orthographe; tradition lexicographique. Les étudiants sauront expliquer les changements du système de la langue française et certaines évolutions phonologiques précises; expliquer des exemples d'évolution morpho-syntaxique du latin vulgaire au français moderne; comprendre les singularités de la langue française mais aussi connaître les éléments communs aux autres langues latines.

### **FES 325 European Literatures**

This course stems from the fields of Comparative Literature and Literary Theory. The first part is theoretical and offers a brief account of fundamental concepts. The second part focuses on more specific issues such as the establishment of national literatures in Europe, the emergence of the 'great authors', the appearance and disappearance of certain texts in various canons, the creation of a European literary corpus and its importance in the ideological colonization of the non-Western world, as well as its problematization within the postcolonial paradigm and its consequences on the overall readability of non-European literary production.

### **FES 330 The European Integration (Jean Monnet Module)**

The course is a historical and thought-provoking presentation of the European construction, after an introduction, covering the genesis and evolution of the European concept from Antiquity to the nineteenth century. Furthermore, on the basis of a body of literary texts (Moschos, Podiébrad, Camões, Alexis Léger, Jean Monnet), the foundations of European integration since 1950 are analysed, as well as institutions and current EU policies. Cross-cutting issues are: the theory of climates, the christianitas, and the European identity. The course is designed for students to acquire knowledge that allows not only to take an active part in the new social, cultural, political and economic European environment, but also to better understand and positively criticize it.

### **FES 340 Littérature du XIXe siècle**

Le cours s'intéresse aux grands mouvements littéraires français qui ont vu le jour au XIXe siècle tels le romantisme, le réalisme, le naturalisme. Il analyse leur maturation, leurs grands moments et leur mutation dans une approche qui entend montrer des schémas thématiques et stylistiques transversaux. L'étude des grands mouvements littéraires du XIXe siècle français dans leur division en genres cherche à mieux rendre compte des genres nouveaux ou renouvelés au cours de la période étudiée et de l'interrogation qui les accompagne. Plus globalement, elle permet de mettre l'accent sur ce qui prépare la modernité littéraire.



### FES 342 Littérature de la Renaissance

Le cours se propose de suivre l'évolution de la littérature française à travers la nouvelle vision anthropocentrique établie par l'humanisme; de faire valoir les rapports entre littérature et idéologie qui passent par le questionnement religieux de la Réforme face au catholicisme; d'étudier les genres littéraires à la lumière de la redécouverte de l'Antiquité (formes poétiques fixes, rhétorique, lyrisme, textes moralistes) et au cours de leur métamorphose (le grotesque chez Rabelais, l'essai de Montaigne, etc.). Le cours a pour objectif d'apprendre aux étudiants à lire des textes anciens en mettant à profit les analyses contemporaines.

### FES 343 Littérature du XVIII<sup>e</sup> siècle

Le cours met l'accent sur la force subversive des textes littéraires et philosophiques des Lumières. Outre l'extrême variété du genre romanesque (romans picaresques, d'apprentissage social, de mœurs, érotiques, exotiques, etc.), sont examinées ses différentes formes (épistolaire, autobiographies fictives ou réelles, récits d'apprentissage rétrospectifs, discours dialogués). Les Lumières engendrent aussi toutes sortes de démythifications, dans le domaine de la littérature comme dans celui des idées, donnant naissance aux notions fondamentales de la philosophie et de la science politique. Le cours a pour objectif de former l'esprit critique par son spectacle: critique de la société, des genres et du discours critique lui-même.

### FES 350 Littérature Comparée

Le premier volet de ce cours est théorique: définition de la littérature comparée et présentation de son évolution, de ses notions-clés et de ses points de repère théoriques (l'intertextualité, la réception, l'horizon d'attente, l'interculturalité, les géographies littéraires, etc.). Le second volet propose des textes qui se prêtent à une lecture comparatiste. Le cours a pour objectif de montrer comment la critique littéraire établit des relations de différence et de similitude entre les textes; de mettre en question l'«objectivité» des divisions entre les littératures nationales et les genres littéraires, mais aussi entre des discours différents et des systèmes sémiotiques distincts.

### FES 391 Intellectual Movements in Europe: Renaissance, Reform, Enlightenment

While the great movements between 1400 and 1800 – Renaissance, Reformation and Enlightenment – are considered cradled in, respectively, Italy, Germany and France, their reality was pan-European. A multiplicity of thinkers and written works brought about incalculable changes. Among these, Humanism placed the individual in a new system of values, social and political. Medieval authority met increasing opposition from emancipatory concepts and movements that often derived from Greek and Roman philosophy, literature and art. New concepts of the cosmos and the world emerged, with a strong anthropocentric predilection. The course will study deep changes in philosophical, literary, political and social dimensions.

### FES 392 The Archipelago of European Thinking

This course studies the theoretical constructions that support the political and social establishment of "Europe" and links them to the historical evolution of its people. The course focuses on the theory of the state by Hobbes, on ideas emerging from the three revolutions (English, American, French), which established democracy in Europe and the world, and also on theories of liberalism and socialism that put their mark on the 20th century. This course helps students to comprehend the role of philosophical theories in political and social changes and to familiarize with the idioms of European intellect.

### FES 411 Discourse, Society and Ideology: The French Media

Politics is one of the social fields where discourse practices are the most prevalent: political knowledge is, by definition, based on ideology and political ideologies are reproduced, to a great extent, through discourse. The course begins from the framework of the theory of announcement. It studies and analyses data including articles from French press, blogs and internet forums, regarding political and social events.

### FES 420 Discourse in the framework of European Enlightenment

The course follows the interpretation of European Enlightenment in the homonymous work of the late Panayotis Kondylis. Kondylis analyses the multiple ideas and intellectual schemes trending in the field of the European spirit from the early and late Enlightenment. The writer analyses the way that the old Christian and God-centric world icon is replaced by contemporary. This course will focus on four areas: science, society, economy and politics. For each one of these areas, we will examine the carriers of change, their designation as structural points of the new world icon, as well as the new scientific, social, economic and political reality, as set in the new historical framework. The course forms part of the broader philosophical analysis of the genesis of the dominant principles of European contemporaneity.

### FES 425 Economy as Bio-politics in Foucault

The concept of *raison d'État* (always in French in international bibliography) implies a particular understanding of the political act as independent or contrary to the applicable ethics, laws and rules. Its origins can be traced to the Renaissance in Italy and attributed to the Florentine Niccolò Machiavelli (1469-1527). The term *raison di Stato* per se was advanced by the Venetian Jesuit Giovanni Botero (1544-1617) in 1598 with a very significant departure from the philosophy of Machiavelli, whom he was conflicting. The *raison di Stato* was not about increasing the power of the Prince by military means, but the strengthening of the State through the active support of the national economy, conceived as the capacity of the labour force for production of goods and wealth generating taxes to state coffers. This does not mean that the State renounces deception and violence in trying to strengthen the economy. The French philosopher Michel Foucault (1926-1984), for whom, during

the modern period, the logic of life (economy) supersedes the logic of death (politics), analyses this fundamental change in the orientation of the modern State in the general study of the History of Sexuality in the West (1976-1984), by introducing the term of bio-politics.

#### **FES 428 Introduction to Theories of Beauty**

"Beauty" is a fundamental category in European art and literature. The course gives a short introduction to the long history of the term from antiquity to modernism. To this end, extracts of the key historical texts by Ovid ("Metamorphoses"), Plato ("Phaedrus"), Schiller ("On naive and sentimental poetry", 1795), Darwin ("The Descent of Man and Selection in Relation to Sex", 1871) and Freud ("Civilization and its discontents", 1930) will be dealt with. Examples drawn from visual arts and literature will be discussed and analysed in detail.

#### **FES 430 The European Film Tradition**

The course aims at presenting through films and texts are the main streams and directors of Europe, along with basic film making techniques (camera movements, montage, raccord, etc.); also, at presenting the main theoretical principles of European Cinema, through studying the texts of important cinema reviewers and specialised magazines, such as Cahiers du Cinema in France or Sequence in UK.

#### **FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films**

Entre littérature et cinéma, tous deux arts de la narration, les relations sont souvent envisagées à travers le prisme de l'adaptation des textes littéraires, dont la pratique a alimenté des débats parfois très vifs. Les Misérables (1862) de Victor Hugo, roman social du XIXe siècle qui n'a pas perdu de son actualité, a inspiré une riche filmographie dès 1897 avec le court métrage des frères Lumière Victor Hugo et les principaux personnages des Misérables. Depuis, plus de cinquante réalisateurs ont adapté le roman, ce qui permet d'examiner les questions relatives à l'adaptation des œuvres littéraires au cinéma: Un film peut-il recréer, sous de nouvelles formes, ce que l'on croit spécifiquement littéraire? Cherche-t-il à transcrire ou à interpréter sa source? Questions différemment abordées par les cinéastes, qui feront l'objet d'analyses lors du cours.

#### **FES 444 Introduction to the Theory of "Sublime"**

The "sublime" is a main category in European Art. The course intends to make an introduction to the history of "sublime" from antiquity to post-modernism. For this reason, we will read excerpts from classical texts, such as the dissertations of Longinus ("Of the height of eloquence", 1st century B.C.), of Boileau ("Traité du sublime", 1674), of Burke ("A Philosophical Enquiry into the Origin of our Ideas of the Sublime and Beautiful", 1757), of Kant ("Kritik der Urteilskraft", 1790) and of Lyotard ("Le sublime et l'avant-garde", 1988). Samples of European Literature and art will be also analysed, for the comprehension and critique of this aesthetic theory.

#### **FES 483 European Art and Greek Mythology**

Ancient Greek myths are an integral part of European culture. They enrich literature, theatre, films, music and visual arts. Why are we still interested in ancient myths? Why do they not lose their charm? This course studies different approaches to this issue. It goes back to the beginnings of the scientific exploration of ancient mythology. Changes and transformations of the mythical tradition will be studied, as well as newer approaches in the fields of literary the interpretation, psychoanalysis and semiotics. Finally, the course addresses the broader relationship between myth and philosophy, religion, society and politics.



Faculty of Humanities

## ● ● ● ● Département d'Études Françaises et Européennes

[www.ucy.ac.cy/frml/fr](http://www.ucy.ac.cy/frml/fr)

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## PROGRAMME ACADÉMIQUE

Le Département d'Études françaises et européennes délivre deux diplômes universitaires de premier cycle (l'admission se fait par le même concours d'entrée):

- Langue et Littérature françaises
- Langues modernes et Études européennes

Ces deux diplômes apportent aux étudiants une éducation et une formation d'actualité. Les jeunes diplômés peuvent poursuivre leur carrière à Chypre ou à l'étranger, non seulement comme professeurs et/ou ambassadeurs de langue et civilisation françaises, mais aussi comme citoyens européens, maîtrisant 3 ou 4 langues (grec, anglais, français et/ou allemand). La nouvelle structure de ces diplômes de premier cycle consiste en deux parcours distincts à partir d'un tronc commun.

### A. DIPLÔME EN LANGUE ET LITTÉRATURE FRANÇAISES

L'aire de spécialisation Langue et Littérature françaises permet aux étudiants de développer des compétences de haut niveau pour communiquer en français, et d'étudier en profondeur la linguistique et la culture françaises, les arts et le cinéma. Les jeunes diplômés peuvent poursuivre leur carrière dans l'enseignement, le journalisme, les services publics nationaux et étrangers, et la traduction professionnelle. Comme d'autres formations universitaires, le diplôme de Langue et Littérature françaises peut ouvrir à de nouveaux horizons et constituer ainsi la clé d'une carrière professionnelle réussie.

### Obtention du diplôme de Langue et Littérature Françaises

Pour obtenir le diplôme de Langue et Littérature françaises, les étudiants doivent valider des cours totalisant un minimum de 240 ECTS. Ces cours incluent: 1) des cours obligatoires, 2) des cours de langue étrangère, et 3) des cours optionnels.

#### Cours Obligatoires

FES 102 Discours Oral I  
FES 103 Discours Écrit I  
FES 104 Discours Écrit II  
FES 112 Introduction au Monde Francophone  
FES 113 Introduction au Monde Européen  
FES 131 Société Française Contemporaine  
FES 171 Introduction aux Outils de la Recherche  
FES 202 Français Universitaire I  
FES 203 Français Universitaire II  
FES 204 Discours Oral II – Phonétique  
FES 220 Cybercultures Francophones  
FES 222 FLE et Cultures Populaires  
FES 361 Théories de la Traduction  
FES 362 Pratiques de la Traduction  
FES 370 Méthodologie de la Recherche  
FES 373 Communication Professionnelle

FES 375 Le Français en Europe

FES 404 Français Universitaire III

FES 430-439 Deux Cours de la Thématique *Cinéma - Arts visuels - Communication*

FES 100-499 Deux Cours de la Thématique *Didactique*

FES 472 Mémoire de Fin d'études  
(avec prérequis de 180 ECTS)

ENG 101 Academic Communication in English

Chaque semestre, cette liste est complétée par d'autres cours obligatoires, tels que des cours de littérature française, de linguistique, et des cours sur la pensée, la culture et les arts visuels européens. Ces cours sont annoncés avec leur code respectif au début de chaque semestre.

### Cours Obligatoires Supplémentaires (exemples)

FES 100 Introduction à la Linguistique  
FES 105 De la Grammaire à la Linguistique I  
FES 106 De la Grammaire à la Linguistique II  
FES 132 Histoire de la Civilisation Française  
FES 134 Principles of Contemporary Teaching of French as Foreign Language  
FES 140 Histoire de la Littérature Française  
FES 200 Morphosyntaxe  
FES 201 Syntaxe  
FES 230 La France du XXe siècle  
FES 239 The Legacy of French Revolution  
FES 240 Littérature Moderne (1870-1945)  
FES 241 Littérature Contemporaine (1945- )  
FES 242 Littérature Baroque et Classique  
FES 244 Neology and Vocabulary Renewal  
FES 282 La Bataille des Langues en Europe  
FES 290 Introduction to European Literature  
FES 300 Lexicologie – Lexicographie  
FES 301 Sociolinguistique  
FES 302 Analyse Linguistique du Texte  
FES 303 Phonologie  
FES 310 Langue, Histoire et Société  
FES 325 European Literatures  
FES 330 The European Integration (Jean Monnet Module)  
FES 340 Littérature du XIXe siècle  
FES 342 Littérature de la Renaissance  
FES 343 Littérature du XVIIIe siècle  
FES 350 Littérature Comparée  
FES 391 Intellectual Movements in Europe: Renaissance, Reform, Enlightenment  
FES 392 The Archipelago of European Thinking  
FES 411 Discourses, Society, and Ideology: The French Media  
FES 420 Discourse in the framework of European Enlightenment

FES 425 Economy as Bio-politics in Foucault  
 FES 428 Introduction to Theories of Beauty  
 FES 430 The European Film Tradition  
 FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films  
 FES 444 Introduction to the Theory of "Sublime"  
 FES 483 European Art and Greek Mythology

### Cours de Langue Étrangère

Trois niveaux de la même langue étrangère (le Département recommande le français), offert par le Centre de Langues, pour un total de **15 crédits**.

### Cours Optionnels

Tout cours offert par l'Université, excepté les cours du Département d'Études Françaises et Européennes, est considéré comme un cours optionnel. Au moins **16 ECTS** doivent être obtenus de trois facultés différentes de l'Université. Les cours dispensés par le Centre de Langues et le Centre sportif sont considérés comme des cours de facultés indépendantes.

À tous les semestres, y compris le semestre d'été, les étudiants peuvent s'inscrire une seule fois au cours FES 150 *Études indépendantes* (3 ECTS) et FES 250 *Expérience de Recherche* (6 ECTS). L'inscription est subordonnée à l'approbation du professeur superviseur au Département.

En accord avec la décision du Sénat (no. 2/2006, § 3.9.2.1), tout étudiant qui assiste de son gré à des lectures publiques, séminaires ou conférences organisés par les Départements de l'Université, ou par le Centre d'enseignement et d'apprentissage (KEDIMA) (20 heures de cours intensif = 1 ECTS), est en droit de valider 2 ECTS pour la totalité des 4 ans de ses études. Le Département recommande que tous les étudiants de première année se procurent le Bulletin auprès de la MERIMNA.

### Mineure du Diplôme

Les étudiants qui le désirent peuvent, parallèlement à l'option « majeure » en Langue et Littérature françaises, suivre un programme mineur en Études européennes. En plus des cours communs aux deux parcours, qui sont reconnus par le Conseil de Département sur simple demande, les étudiants doivent valider 5 cours supplémentaires: 2 cours FES, 1 cours SPS, 1 cours HIST et 1 cours LAW.

## B. DIPLOME DE LANGUES MODERNES ET ÉTUDES EUROPÉENNES

Les étudiants du parcours Langues Modernes et Études Européennes seront amenés à développer des compétences avancées en français et/ou anglais et/ou allemand, et étudieront en profondeur la pensée et la culture européenne ainsi que les études filmiques. Ils acquerront des connaissances solides en sciences humaines et sociales ainsi qu'en sciences politiques, en particulier sur des sujets relatifs aux études européennes. Ils seront à même de poursuivre leur carrière dans des domaines professionnels où ces spécialisations sont requises, par exemple les institutions européennes, les

services publics nationaux et étrangers, organisations culturelles, fondations, entreprises, ONG, etc.

### Obtention du diplôme en Langues Modernes et Études Européennes

Pour obtenir le diplôme en Langues Modernes et Études Européennes, les étudiants doivent valider des cours totalisant un minimum de 240 ECTS. Ces cours incluent: 1) des cours obligatoires, enseignés dans les deux langues que l'étudiant a choisi, 2) des cours dispensés par le Département d'Études anglaises, d'Histoire, de Sciences politiques et sociales, de Droit, et le Centre de Langues, et 3) des cours optionnels.

### COMBINAISON ANGLAIS-FRANÇAIS

#### Cours Obligatoires

FES 102 Discours Oral I  
 FES 103 Discours Écrit I  
 FES 104 Discours Écrit II  
 FES 112 Introduction au Monde Francophone  
 FES 113 Introduction au Monde Européen  
 FES 131 Société Française Contemporaine  
 FES 171 Introduction aux Outils de la Recherche  
 FES 202 Français Universitaire I  
 FES 203 Français Universitaire II  
 FES 204 Discours Oral II – Phonétique  
 FES 220 Cybercultures Francophones  
 FES 222 FLE et Cultures Populaires  
 FES 361 Théories de la Traduction  
 FES 362 Pratiques de la Traduction  
 FES 370 Méthodologie de la Recherche  
 FES 373 Communication Professionnelle  
 FES 375 Le Français en Europe  
 FES 404 Français Universitaire III  
 FES 430–439 Deux Cours de la Thématique *Cinéma – Arts visuels – Communication*  
 FES 475 Mémoire de fin d'études ou Deux Cours FES (avec prérequis de 180 ECTS)

Chaque semestre, cette liste est complétée par des cours obligatoires supplémentaires relatifs à la pensée et à la culture européennes ainsi qu'aux arts visuels. Ces cours sont annoncés avec leur code respectif au début de chaque semestre.

#### Cours Obligatoires Supplémentaires (exemples)

FES 234 L'Europe dans les Médias Français: Idéologies et Discours Politique  
 FES 244 Neology and Vocabulary Renewal  
 FES 245 Rhétorique de la Publicité  
 FES 282 La Bataille des Langues en Europe  
 FES 290 Introduction to European Literature  
 FES 310 Langue, Histoire et Société

FES 325 European Literatures  
 FES 330 The European Integration  
 (Jean Monnet Module)  
 FES 350 Littérature Comparée  
 FES 364 L'Europe – Mosaïque des Langues  
 FES 391 Intellectual Movements in Europe:  
 Renaissance, Reform, Enlightenment  
 FES 392 The Archipelago of European Thinking  
 FES 393 Amour et Politique  
 FES 411 Discourses, Society, and Ideology:  
 the French Media  
 FES 420 Discourse in the framework of European  
 Enlightenment  
 FES 425 Economy as Bio-politics in Foucault  
 FES 428 Introduction to Theories of Beauty  
 FES 430 The European Film Tradition  
 FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films  
 FES 442 Philosophie de l'argent  
 FES 444 Introduction to the Theory of "Sublime"  
 FES 483 European Art and Greek Mythology

**Cours dispensés par les Départements d'Études  
 anglaises, d'Histoire, de Sciences politiques et  
 sociales, de Droit, et par le Centre de Langues  
 (voir les descriptifs des cours sur le site des  
 départements respectifs)**

ENG 101 Academic Communication in English  
 ENG 103 Academic Essay Writing  
 ENG 239 Introduction to Cultural Criticism  
 ENG 249 Frontiers of/in Europe  
 ENG 279 Introduction to Critical Thinking  
 LAN 203 English for European and International Relations  
 2 Cours HIST (annoncés au début de chaque semestre)  
 2 Cours SPS (SPS 251 et SPS 266)  
 2 Cours LAW (annoncés au début de chaque semestre)

**Cours Optionnels**

Tout cours offert par l'Université, excepté les cours du Département d'Études françaises et européennes, est considéré comme un cours optionnel. Au moins 12 ECTS doivent être obtenus de trois facultés différentes de l'Université. Les cours dispensés par le Centre de Langues et le Centre sportif sont considérés comme des cours de facultés indépendantes.

À tous les semestres, y compris le semestre d'été, les étudiants peuvent s'inscrire une seule fois au cours FES 150 *Études indépendantes* (3 ECTS) et FES 250 *Expérience de Recherche* (6 ECTS). L'inscription est subordonnée à l'approbation du professeur superviseur au Département.

En accord avec la décision du Sénat (no. 2/2006, § 3.9.2.1), tout étudiant qui assiste de son gré à des lectures publiques, séminaires ou conférences organisés par les Départements de l'Université, ou par le Centre d'enseignement et d'apprentissage (KEDIMA) (20 heures de cours intensif = 1

ECTS), est en droit de valider 2 ECTS pour la totalité des 4 ans de ses études. Le Département recommande que tous les étudiants de première année se procurent le Bulletin auprès de la MERIMNA.

**Mineure du Diplôme**

Les étudiants qui le désirent peuvent, parallèlement à l'option «majeure» en Études européennes, suivre un programme mineur en Langue et Littérature françaises. En plus des cours communs aux deux parcours, qui sont reconnus par le Conseil de Département sur simple demande, les étudiants doivent valider 5 cours supplémentaires FES enseignés chacun en français.

**COMBINAISON FRANÇAIS-ALLEMAND**

**Cours Obligatoires**

FES 102 Discours Oral I  
 FES 103 Discours Écrit I  
 FES 104 Discours Écrit II  
 FES 109 Schriftliche Ausdruckstechniken  
 (Written Discourse Production)  
 FES 112 Introduction au Monde Francophone  
 FES 113 Introduction au Monde Européen  
 FES 131 Société Française Contemporaine  
 FES 171 Introduction aux Outils de la Recherche  
 FES 180 Allemand Universitaire I  
 FES 181 Deutsch in der Sozialwissenschaft  
 (German in Social Sciences)  
 FES 202 Français Universitaire I  
 FES 203 Français Universitaire II  
 FES 204 Discours Oral II – Phonétique  
 FES 220 Cybercultures Francophones  
 FES 222 FLE et Cultures Populaires  
 FES 280 Allemand Universitaire II  
 FES 361 Théories de la Traduction  
 FES 362 Pratiques de la Traduction  
 FES 370 Méthodologie de la Recherche  
 FES 373 Communication Professionnelle  
 FES 375 Le Français en Europe  
 FES 376 Deutsch für Europäische Beziehungen  
 (German for European Relations)  
 FES 404 Français Universitaire III  
 FES 430-439 Deux Cours de la Thématique *Cinéma – Arts  
 visuels– Communication*  
 FES 475 Mémoire de Fin d'études ou Deux Cours FES  
 (avec prérequis de 180 ECTS)

Chaque semestre, cette liste est complétée par des cours obligatoires supplémentaires concernant le domaine plus vaste des sciences culturelles et littéraires, avec un accent particulier sur la pensée et les lettres européennes. Ces cours sont annoncés avec leur code respectif au début de chaque semestre.



## Cours Obligatoires Supplémentaires (exemples)

FES 234 L'Europe dans les Médias Français:  
Idéologies et Discours Politique

FES 244 Neology and Vocabulary Renewal

FES 245 Rhétorique de la Publicité

FES 282 La Bataille des Langues en Europe

FES 290 Introduction to European Literature

FES 310 Langue, Histoire et Société

FES 325 European Literatures

FES 330 The European Integration (Jean Monnet Module)

FES 350 Littérature Comparée

FES 364 L'Europe – Mosaïque des Langues

FES 391 Intellectual Movements in Europe:  
Renaissance, Reform, Enlightenment

FES 392 The Archipelago of European Thinking

FES 393 Amour et Politique

FES 411 Discourses, Society, and Ideology:  
the French Media

FES 420 Discourse in the framework of European  
Enlightenment

FES 425 Economy as Bio-politics in Foucault

FES 428 Introduction to Theories of Beauty

FES 430 The European Film Tradition

FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films

FES 442 Philosophie de l'argent

FES 444 Introduction to the Theory of "Sublime"

FES 483 European Art and Greek Mythology

## Cours dispensés par les Département d'Histoire, de Sciences politiques et sociales, et de Droit

2 Cours HIST (annoncés au début de chaque semestre)

2 Cours SPS (SPS 251 et SPS 266)

2 Cours DROIT (annoncés au début de chaque semestre)

## Cours Optionnels

Tout cours offert par l'Université, excepté les cours du Département d'Études Françaises et Européennes, est considéré comme un cours optionnel. Au moins 12 ECTS doivent être obtenus de trois facultés différentes de l'Université. Les cours dispensés par le Centre de Langues et le Centre sportif sont considérés comme des cours de facultés indépendantes.

À tous les semestres, y compris le semestre d'été, les étudiants peuvent s'inscrire une seule fois au cours FES 150 *Études indépendantes* (3 ECTS) et FES 250 *Expérience de Recherche* (6 ECTS). L'inscription est subordonnée à l'approbation du professeur superviseur au Département.

En accord avec la décision du Sénat (no. 2/2006, § 3.9.2.1), tout étudiant qui assiste de son gré à des lectures publiques, séminaires ou conférences organisés par les Départements de l'Université, ou par le Centre d'enseignement et d'apprentissage (KEDIMA) (20 heures de cours intensif = 1 ECTS), est en droit de valider 2 ECTS pour

la totalité des 4 ans de ses études. Le Département recommande que tous les étudiants de première année se procurent le Bulletin auprès de la MERIMNA.

## Mineure du Diplôme

Les étudiants qui le désirent peuvent, parallèlement à l'option «majeure» en Études européennes, suivre un programme mineur en Langue et Littérature françaises. En plus des cours communs aux deux parcours, qui sont reconnus par le Conseil de Département sur simple demande, les étudiants doivent valider 5 cours supplémentaires FES enseignés chacun en français.

## COMBINAISON ANGLAIS-ALLEMAND

### Cours Obligatoires

FES 109 Schriftliche Ausdruckstechniken  
(Techniques d'expression écrite)

FES 120 Deutsche Kultur (Culture allemande)

FES 121 Mündliche Sprachproduktion (Discours oral)

FES 122 Schriftliche Sprachproduktion  
(Discours écrit/Compétences écrites)

FES 171 Introduction aux Outils de la Recherche

FES 180 Deutsch für Akademiker I  
(Allemand universitaire I)

FES 181 Deutsch in der Sozialwissenschaft  
(L'allemand dans les sciences sociales)

FES 182 Deutsche Populärkultur und Deutsch als  
Fremdsprache (Culture populaire allemande et  
allemande langue étrangère)

FES 280 Deutsch für Akademiker II  
(Allemand universitaire II)

FES 370 Methodologie de la Recherche

FES 374 Fachsprache für den Beruf (Communication  
professionnelle)

FES 376 Deutsch für Europäische Beziehungen  
(L'allemand dans les relations européennes)

FES 380 Deutsch für Akademiker III  
(Allemand universitaire III)

FES 381 Deutsch für Akademiker IV  
(Allemand universitaire IV)

FES 475 Mémoire de Fin d'études ou Deux Cours FES  
(avec prérequis de 180 ECTS)

Chaque semestre, cette liste est complétée par des cours obligatoires supplémentaires concernant le domaine plus vaste des sciences culturelles et littéraires, avec un accent particulier sur la pensée et les lettres européennes. Ces cours sont annoncés avec leur code respectif au début de chaque semestre.

## Cours Obligatoires Supplémentaires (exemples)

FES 234 L'Europe dans les Médias Français:  
Idéologies et discours politique

FES 244 Neology and Vocabulary Renewal

FES 245 Rhétorique de la publicité

FES 282 La bataille des langues en Europe  
 FES 290 Introduction to European Literature  
 FES 310 Langue, histoire et société  
 FES 325 European Literatures  
 FES 330 The European Integration (Jean Monnet Module)  
 FES 350 Littérature Comparée  
 FES 364 L'Europe – Mosaïque des Langues  
 FES 391 Intellectual Movements in Europe:  
 Renaissance, Reform, Enlightenment  
 FES 392 The Archipelago of European Thinking  
 FES 393 Amour et Politique  
 FES 411 Discourses, Society, and Ideology:  
 the French Media  
 FES 420 Discourse in the framework of European  
 Enlightenment  
 FES 425 Economy as Bio-politics in Foucault  
 FES 428 Introduction to Theories of Beauty  
 FES 430 The European Film Tradition  
 FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films  
 FES 442 Philosophie de l'argent  
 FES 444 Introduction to the Theory of "Sublime"  
 FES 483 European Art and Greek Mythology

**Cours dispensés par les Département d'Études  
 anglaises, d'Histoire, de Sciences politiques et  
 sociales, de Droit, et le Centre de Langues (voir les  
 descriptifs des cours sur le site des départements  
 respectifs)**

ENG 101 Academic Communication in English  
 ENG 103 Academic Essay Writing  
 ENG 239 Introduction to Cultural Criticism  
 ENG 249 Frontiers of/in Europe  
 ENG 279 Introduction to Critical Thinking  
 ENG 500- Elective Course of the thematic area Cinema  
 ENG 500- Elective Course of the thematic area Translation  
 Studies  
 ENG 590 Translating for the European Union Institutions  
 LAN 202 Public Speaking  
 LAN 203 English for European and International Relations  
 2 Cours HIST (annoncés au début de chaque semestre)  
 2 Cours SPS (SPS 251 et SPS 266)  
 2 Cours LAW (annoncés au début de chaque semestre)

### Cours Optionnels

Tout cours offert par l'Université, excepté les cours du Département d'Études Françaises et Européennes, est considéré comme un cours optionnel. Au moins **15 ECTS** doivent être obtenus de trois facultés différentes de l'Université. Les cours dispensés par le Centre de Langues et le Centre sportif sont considérés comme des cours de facultés indépendantes.

À tous les semestres, y compris le semestre d'été, les étudiants peuvent s'inscrire une seule fois au cours FES 150 *Étude indépendante* (3 ECTS) et FES 250 *Expérience de Recherche* (6 ECTS). L'inscription est subordonnée à l'approbation du professeur superviseur au Département.

En accord avec la décision du Sénat (no. 2/2006, § 3.9.2.1), tout étudiant qui assiste de son gré à des lectures publiques, séminaires ou conférences organisés par les Départements de l'Université, ou par le Centre d'enseignement et d'apprentissage (KEDIMA) (20 heures de cours intensif = 1 ECTS), est en droit de valider 2 ECTS pour la totalité des 4 ans de ses études. Le Département recommande que tous les étudiants de première année se procurent le Bulletin auprès de la MERIMNA.

*NB: les étudiants de la combinaison de langues  
 anglaisallemand n'ont pas la possibilité de s'inscrire pour un  
 programme d'études secondaire (Mineure) en Langue et  
 Littérature françaises.*

## DESCRIPTIF DES COURS

### A. Cours Obligatoires

#### FES 102 Discours Oral I

Ce cours dispensé en français permet de développer les compétences de compréhension et d'expression orales en français langue étrangère. Les apprenants, à travers des activités diverses et progressives amélioreront leurs compétences tout en prenant conscience des spécificités du discours oral. Ils seront familiarisés avec les mécanismes liés à l'expression orale, à la prise de parole dans diverses situations de communication (monologue, discussion, débat, exposé).

#### FES 103 Discours Écrit I

This course presents an overview of French grammar. Through understanding of authentic texts, the basic grammatical structures as well as their components are examined (voices, moods, tenses, inflection, etc.). Students undertake short assignments, individually or in groups, in order to improve their skills in written discourse, focusing on grammar and spelling. The course aims at identifying students' difficulties in French grammar and at the same time strengthening their written skills.

#### FES 104 Discours Écrit II

This course is the continuation of Written Language I. Therefore, students must be familiar with the simple structures of written French. Based on the understanding of authentic documents, the course focuses on more complex structures (such as embedded clauses). This course will enable students to produce sentences expressing causality, purpose, time, etc. Students produce individual and/or team assignments, in order to improve their skills in written discourse, the emphasis being on grammar and spelling. The course aims at helping students to a) engage in depth with French grammar, b) identify their particular difficulties in grammar skills, and c) apply rules in written discourse.

### FES 109 Schriftliche Ausdruckstechniken (Written Expression Techniques)

This course is taught in German. In this course, students will be introduced to and will deal with various types of texts (literary, journalistic, historical etc. texts). The students will learn how to approach these texts in an academic way in order to be able to reflect and reproduce their contents. This can be done in the form of a summary, a report or an essay.

### FES 112 Introduction au Monde Francophone

Ce cours, proposé au début de la formation des étudiants, présente dans un premier temps le monde francophone et par la suite la société contemporaine française. Les étudiants ont l'occasion de se familiariser avec les mœurs et coutumes de la société française et de mieux comprendre les tendances modernes de la communauté française et francophone. Plus précisément, le cours s'organise autour de quatre thématiques en relation avec le monde francophone: 1) l'histoire et l'évolution de la francophonie, 2) les mœurs et coutumes, 3) les arts et 4) l'influence de la langue-culture française sur Chypre et son histoire.

### FES 113 Introduction au Monde Européen

Ce cours veut offrir aux jeunes étudiants une connaissance élémentaire sur la réalité culturelle de l'Europe en mutation. Dans ce cadre, le cours présente et analyse des sujets de culture et sur l'évolution de l'Europe (langues, religions, populations, arts, multilinguisme, éducation, institutions, etc.).

### FES 121 Mündliche Sprachproduktion (Oral Discourse Production)

This course aims at helping students to acquire the necessary skills for oral communication in German. Various methods of instruction will help students to improve their oral communication skills as well as their auditory skills. Students will learn how to take part in discussions about a variety of topics concerning culture, politics and society. With the help of practical language exercises, students will learn how to a) discuss and exchange arguments b) draw conclusions, and c) summarise discussions.

### FES 122 Schriftliche Sprachproduktion (Writing Skills)

In this course students will practice and improve their writing skills in German. With the help of various methods of instruction, students will acquire important linguistic means for the written language. A variety of writing exercises will help to practice and foster the knowledge of these means. Furthermore, the students will acquire basic knowledge in academic writing and official written communication.

### FES 131 Société Française Contemporaine

Le cours propose une vue d'ensemble des évolutions de la société française depuis la Seconde Guerre mondiale, alors que la France est entrée de plein pied dans la modernité. Seront présentées les mutations économiques, politiques

et sociales de la société française, depuis 1945 jusqu'à nos jours, à travers l'étude de documents pédagogiques et authentiques variés (textuels, iconiques, audio et vidéo).

### FES 171 Introduction aux Outils de la Recherche

Le cours entend initier les étudiants à la maîtrise des outils de documentation et de saisie et à l'exploitation, au traitement et à la présentation des données recueillies. Il prépare donc à toutes les activités de recherche durant les trois premières années du cursus. Le cours a pour objectif de fournir aux étudiants, en français, le bagage technique nécessaire de manière à ce qu'ils soient capables d'effectuer une recherche bibliographique simple, de manipuler correctement un logiciel de traitement de texte, de maîtriser certains autres outils bureautiques et de connaître les règles de base de la navigation internet.

### FES 180 Deutsch für Akademiker I (German for Academic Purposes I)

This course is taught in German and it focuses on: 1) extending further knowledge of German morphology and syntax, 2) developing their ability to produce grammatically correct and well-structured sentences, 3) introducing student to more complex language structures and syntax problems (especially as regards the word order, verbal groups, choice of prepositions). On the completion of the course, students will have mastered German spelling and important grammatical structures. They will pass from the sentence syntax to the construction of meaning and they will make use of the strategies and the tools which are necessary for the production of more complex texts.

### FES 181 Deutsch in der Sozialwissenschaft (German for Social Studies)

This course provides students with fundamental knowledge of academic working in German contexts. Therefore, basic elements of the German academic culture will be explained and explored. The course emphasizes two topics: 1) philological working skills and 2) German as a foreign language in the academic field. Topic 1 will comprise essential academic working skills such as writing a bibliography, working with libraries and databases, literature search as well as formal aspects of written work and oral presentations. Topic 2 will deal with German as an academic language. With the help of practical language exercises, students will be introduced to writing in German in an academic context.

### FES 182 Deutsche Populärkultur und Deutsch als Fremdsprache (German Popular Culture and German as a Foreign Language)

The purpose of this course is to provide students with knowledge of regional and cultural topics in Germany, Switzerland and Austria. Furthermore, students will extend their knowledge of the German language. With the help of various media (press, television, internet) a variety of topics will be introduced and emphasized. Students will gain an overview of German popular culture, as well as reflecting on different aspects of their own culture. Additionally,



students will be taught how to express (oral and written) themselves and their views on these topics.

### **FES 202 Français Universitaire I**

Les étudiants sont progressivement initiés à la production d'un texte élaboré et construit, de niveau universitaire. Le cours s'organise autour de deux axes complémentaires: reconnaître les structures d'organisation d'un texte; apprendre à produire un énoncé correctement rédigé et logiquement structuré.

### **FES 203 Français Universitaire II**

This course is the continuation of FES 202, focusing on the production of academic French. It presents the reading methodology for texts, how to identify basic ideas and their logical articulation, as well as how to summarize and reformulate the information provided. With this course student will develop their comprehension and production skills in written and spoken French. Through consecutive activities, students will be able to identify the main ideas of the text, reformulate them in a cohesive manner and articulate them, using logical links.

### **FES 204 Discours Oral II - Phonétique**

S'appuyant sur des savoirs acquis en FES 102, ce cours vise à développer les compétences compréhension et de production orale ainsi que les compétences d'interaction dans diverses situations de communication (monologue suivi, dialogue, dialogue, débats, discussions, etc...). Il approfondit également la compétence phonologique des étudiants –rythme, prosodie, intonation et autres phénomènes articulatoires – et introduit l'Alphabet Phonétique International (API).

### **FES 220 Cybercultures Francophones**

Le cours propose des activités d'apprentissage qui permettent aux étudiants de consolider les structures de la langue française déjà acquises en discours oral et écrit, activités notamment basées sur des documents textuels et audio-visuels disponibles en ligne. Dans une approche collaborative, les étudiants participent activement au processus d'apprentissage et utilisent les technologies d'information et de communication (TIC).

### **FES 222 FLE et Cultures Populaires**

La culture populaire, qui est produite et appréciée par le plus grand nombre, constitue un univers privilégié pour découvrir des perceptions et classifications de la réalité différentes, d'autres valeurs et modes de vie. Ce cours propose, dans une approche interculturelle, une découverte de la culture dominante- notamment à travers la chanson et la culture médiatique (radio, télévision, Internet) – de la société française de ce début de XXI<sup>e</sup> siècle marqué par une mondialisation accrue. Ce cours permet également aux étudiants de développer leurs compétences, notamment à l'oral, à travers de nombreuses activités individuelles et collectives. Les activités seront principalement basées sur des documents authentiques contemporains offrant aux étudiants une vision très actuelle de la réalité française et francophone. Ce cours

s'appuiera sur les avantages qu'offrent aujourd'hui les nouvelles technologies (principalement Internet) en didactique des langues.

### **FES 280 Deutsch für Akademiker II (German for Academic Purposes II)**

This course is taught in German and focuses on familiarisation with text cohesion elements and ability to write cohesive paragraphs. Students exercise in writing and re-writing, and, in particular, improve in formulating paragraphs, introductions, transitions and conclusions of complex comments and essays. At the end of the semester, students will have acquired the expressions stating cause or effect, intention and opposition or concession. They will be able to formulate in a cohesive manner paragraphs, transitions and conclusions.

### **FES 361 Théories de la Traduction**

Ce cours présente brièvement l'histoire de la réflexion traductologique (théories prescriptives, descriptives et prospectives), puis quelques approches contemporaines comme celles de R. Jakobson, W. Benjamin, M. Blanchot, G. Mounin, J. R. Ladmiral, G. Steiner, R. Amossy, A. Berman, H. Meschonnic, P. Ricœur, U. Eco. Il présente ensuite quelques lieux communs concernant l'activité de la traduction (les notions de la fidélité, de la lisibilité et de la transparence, le mythe de Babel, la traduction herméneutique, etc.). Le cours a pour objectif de fournir aux étudiants les connaissances théoriques qui leur seront nécessaires pour le passage à la pratique de la traduction.

### **FES 362 Pratiques de la Traduction**

Ce cours propose de retrouver, à partir d'exercices de traduction (versions et thèmes), la typologie des erreurs les plus fréquentes en traduction, dans le couple particulier français-grec. Il consiste surtout en des travaux pratiques sur une sélection de textes littéraires (prose et poésie) et non littéraires (médecine, informatique, biologie, anthropologie, archéologie), ainsi que sur des textes publicitaires et journalistiques. Il examine des points particuliers: traduction des métaphores, des néologismes ou de la terminologie. Le cours a pour objectif de faire prendre conscience aux étudiants des mécanismes et pièges du passage d'une langue et d'une culture à une autre.

### **FES 370 Méthodologie de la Recherche**

La recherche universitaire est une activité créatrice, certes, mais très codifiée. Que chercher? Comment chercher? Comment évaluer le résultat d'une recherche? Comment le mettre à profit dans notre projet particulier et dans le respect de quelles règles rédactionnelles et déontologiques? Telles sont les principales questions directrices du cours, qui se décline autour de trois axes: Théorique, technique, déontologique. Théorique: définition du cadre théorique de la recherche, des principes à partir desquels elle se construit. Heuristique: la sérendipité; les méthodes aveugles; le corpus en tant qu'objet heuristique; chercher au hasard; chercher par essai/erreur; chercher faux, trouver juste; la recherche aléatoire; la recherche systématique; la RDI (Recherche Documentaire Informatisée). Technique:

définir le sujet/établir un corpus; vérifier l'état de la recherche; définir l'approche théorique et critique; la bibliographie, la note, la citation et leurs diverses normes; enfin, la réalisation matérielle du mémoire.

### FES 373 Communication Professionnelle

Ce cours examine les techniques et outils linguistiques nécessaires du français écrit et oral pour rechercher du travail dans des environnements francophones. Dans ce cours, les étudiants acquerront les compétences nécessaires dont ils auront besoin en français en tant que demandeurs d'emploi, prépareront des Curriculum Vitae et des lettres de motivation, et s'entraîneront à passer des entretiens d'embauche. Le cours cherche à les aider à mobiliser leurs compétences linguistiques, en les familiarisant avec les techniques spécifiques pour le discours écrit et oral, afin de les préparer aux environnements francophones en Europe.

### FES 374 Fachsprache für den Beruf (Business German)

The course focuses on: 1) the nature and specificities of German businesses and 2) the knowledge of German for trade relationships. Awareness of intercultural relations will be complemented by the acquisition of practical knowledge (such as writing a CV, oral and written business communication, etc.). With the help of various methods of instruction, students will be introduced to German in the field of Business.

### FES 375 Le Français en Europe

Dans ce cours de français sur objectifs spécifiques, les étudiants sont familiarisés aux grandes thématiques européennes en français, et plus particulièrement aux divers champs lexicaux des institutions et politiques européennes. De plus, les étudiants, par le biais d'activités variées, sont progressivement initiés à interagir dans un contexte professionnel lié aux institutions européennes.

### FES 376 Deutsch für Europäische Beziehungen (German in European Relations)

The purpose of this specialisation course is to provide students with knowledge of European and international relations through the medium of German and to encourage the use of the German language in this specific context. The course will be organized around selected themes and will also include missions which aim at improving understanding and using German in selected fields. For example, the course may include a simulation of an international meeting, discussing its agenda, work in committees and preparation of common findings. Issues discussed in the course will be the functioning of European and international institutions, the mechanisms of political and financial cooperation, diplomacy and international negotiation, international agreements and their drafting, Non-Governmental Organisations, etc.

### FES 404 Français Universitaire III

Dans ce cours, dans le cadre d'un projet pédagogique, les étudiants mobiliseront diverses compétences acquises dans les cours FES 102, 103, 104, 202 et 203 (notamment

méthodologies de lecture et d'écoute de documents, de recherche, d'exposé écrit et oral, de réduction de documents, d'argumentation et de dissertation,...). Ils associeront ainsi leurs connaissances à la faculté de les organiser dans un projet pertinent et construit en collaboration.

### FES 472 Mémoire

Afin d'être diplômé de Langue et Littérature françaises, il est impératif que les étudiants écrivent un mémoire de maîtrise. Le sujet est choisi de concert avec le professeur superviseur de la recherche de l'étudiant. Le minimum de pages attendues est de 20 à 30 pages, incluant la bibliographie. Ce cours aidera les étudiants à gérer leur première rédaction longue de recherche, c'est-à-dire à respecter les délais et les normes de présentation, à veiller à la qualité et à la pertinence de leur recherche ainsi qu'à leur argumentation et au respect de l'éthique scientifique. L'inscription au cours FES 472 Mémoire donne aux étudiants 180 ECTS.

## B. Cours Obligatoires Supplémentaires

### Par exemple:

#### FES 100 Introduction à la Linguistique

Les points traités dans ce cours, qui constituent des concepts fondamentaux pour les cours de linguistique qui vont suivre sont: le langage et les langues; de l'écriture à la linguistique; en quoi la linguistique est-elle une science? langue, langage, parole; norme et usage; la communication; les signes (notamment le signe linguistique: signifié, signifiant, référent); la langue comme système (structures, outils d'analyse). Les étudiants apprendront à définir la linguistique et ses différents domaines (phonétique, phonologie, morphologie, syntaxe, sémantique, sociolinguistique), à donner des exemples relatifs à chacun d'entre eux.)

#### FES 105 De la Grammaire à la Linguistique I

Le cours a pour but de faciliter le passage de la grammaire traditionnelle à la linguistique. Une bonne maîtrise de la grammaire de base est nécessaire. Plus précisément, les étudiants étudieront et réinvestiront la notion de grammaire et de linguistique, la morphologie flexionnelle et dérivationnelle, le morphème et le lexème, les parties du discours et les catégories de mots, la phrase simple, les subordonnées de la phrase complexe, la phrase verbale, les voix, les modes, les valeurs temporelles, l'aspect.)

#### FES 106 De la Grammaire à la Linguistique II

Faisant suite au cours FES 105, ce cours est consacré à l'étude des phrases plus complexes, aux définitions et aux principes fondamentaux de la syntaxe appliquée du français et à l'initiation aux différentes approches en syntaxe du français: notionnelle, fonctionnelle et distributionnelle: l'approche notionnelle et la révision des natures et des fonctions des éléments de la phrase complexe; les éléments subordonnés au nom et au verbe; l'approche fonctionnaliste; l'approche distributionnaliste. Les étudiants sauront reconnaître les natures et les

fonctions de la grammaire traditionnelle; analyser des phrases complexes selon des points de vue syntaxiques différents: approches notion-nelle, fonctionnelle et distributionnelle.)

### **FES 132 Histoire de la Civilisation Française**

Présentation d'un panorama des grands thèmes de la civilisation française, du XI<sup>e</sup> siècle à la fin du XIX<sup>e</sup> siècle: Moyen Âge, Renaissance, Baroque, Classicisme, Lumières, Romantisme, Positivisme, Spiritualisme, Modernité, etc. Le cours a pour objectif de familiariser les étudiants avec les moments, les noms et les caractères d'une histoire de la culture européenne et française afin de leur fournir les points de repère indispensables dans la suite de leur cursus. L'objectif est également de montrer, que les arts, les techniques, la science, les idées et la littérature ne sont pas des disciplines cloisonnées mais reliées.

### **FES 134 Principes de l'apprentissage Contemporain du Français Langue Étrangère**

Après présentation et discussion d'aspects théoriques de l'enseignement et de l'apprentissage des langues étrangères, les étudiants se familiariseront avec le matériel pédagogique destiné à la conception de cours de FLE (plans de leçon et fiches de travail). Cette formation sera basée sur les programmes ministériels chypriotes ainsi que sur les manuels de Français Langue Étrangère utilisés actuellement dans l'enseignement secondaire (lycée) et supérieur à Chypre.

### **FES 140 Histoire de la Littérature Française**

Le cours présente, en progression chronologique, les grands courants de la littérature française et francophone du Moyen Âge au XX<sup>e</sup> siècle, ainsi qu'une sélection de textes représentatifs. Parallèlement, il propose une première étude de la naissance et de l'évolution de certains genres littéraires en essayant de montrer les ruptures et les continuités les plus importantes de la littérature de langue française.

### **FES 200 Morphosyntaxe**

Le cours rappelle et traite les points suivants: morphologie, syntaxe, morphosyntaxe; parties du discours, classes de mots et de morphèmes, axe paradigmatic, axe syntagmatic; unités d'analyse morphosyntaxique; constituants immédiats et analyse générativiste des phrases et syntagmes (structures arborescentes); groupe nominal: nom et déterminants; groupe verbal: temps et aspect. Les étudiants sauront identifier la nature et la fonction des mots dans un texte; analyser un mot en morphèmes; une phrase en structures arborescentes; un corpus à partir d'une consigne de nature morphosyntaxique; lire et discuter des extraits de grammaires de référence.)

### **FES 201 Syntaxe**

I-Grammaticalité / Acceptabilité, Énoncé / Énonciation, Syntagme / Paradigme, II- Opérations dans l'analyse syntaxique (Commutation, Effacement, Insertion, Déplacement, Permutation), III- Analyse en constituants immédiats,

IV- Modalités de la phrase, V- Juxtaposition, Coordination, Corrélation, VI- Subordination. Le cours s'appuie sur des notions acquises dans le cours FES 200 Morphosyntaxe. Les étudiants maîtriseront des notions fondamentales en syntaxe (grammaticalité, acceptabilité, énoncé, énonciation, etc.). Ils sauront faire une analyse syntaxique de la phrase 1) selon le modèle de la théorie distributionnaliste et 2) en constituants immédiats. Ils sauront enfin maîtriser les problèmes syntaxiques relatifs à la subordination.

### **FES 230 La France du XX<sup>e</sup> siècle**

Ce cours couvre la période de la proclamation de la III<sup>e</sup> République jusqu'aux années 1980. 1870 1914: L'installation de la III<sup>e</sup> République; la société française; révolution industrielle et développement économique. L'entre-deux-guerres: les conséquences de la guerre; la crise des années 30. Depuis 1939: la France dans la seconde guerre mondiale. La IV<sup>e</sup> République: les trente glorieuses. La V<sup>e</sup> République: la crise économique; histoires des mœurs, des idées et de l'art. Les étudiants connaîtront ainsi pour chaque période l'histoire politique, sociale et économique ainsi que l'histoire des idées, de l'art et de la culture populaire du pays.)

### **FES 234 L'Europe dans les Médias Français: Idéologies et Discours Politiques**

Ce cours examine les discours dominants de la scène politique et intellectuelle française sur la question de l'Union européenne, et plus globalement du projet européen. L'étude des médias français permettra d'identifier les positionnements des personnalités du spectre politique français de l'extrême-gauche jusqu'à l'extrême-droite, afin de comprendre quelle idée de l'Europe est aujourd'hui diffusée dans les médias français, médias qui reflètent et influencent l'opinion publique française. Les étudiants comprendront comment se structure et se fait un débat d'idées dans les médias et ils comprendront le rôle essentiel joué par les médias dans la diffusion d'idéologies. Ils sauront déchiffrer les spécificités et éléments communs des divers discours sur la question européenne et situer idéologiquement ces points de vue.

### **FES 239 L'héritage de la Révolution Française**

La Révolution française (1789) est l'un des événements les plus importants de l'histoire européenne et de l'histoire du monde moderne. Malgré ses aspects obscurs (la Terreur et la tyrannie napoléonienne qui résulta en la restauration de la monarchie) ou ses exagérations (tel le changement du calendrier et son système de semaine de dix jours et de jours de dix heures), son héritage est aujourd'hui inestimable: les principes démocratiques (l'égalité des citoyens, la liberté de croyance, etc.), les proclamations (la Proclamation des Droits de l'homme et du citoyen votée en 1789), et même les concepts de la vie politique quotidienne, comme la notion de l'autodétermination des peuples ou la distinction entre la gauche et la droite politique, constituent un héritage essentiel du bouleversement social et politique amené par la Révolution française.



## FES 240 Littérature Moderne (1870-1945)

Le cours se propose d'ébaucher un tableau de la littérature moderne, de la fin du XIXe siècle à la Seconde guerre mondiale. Il examine l'œuvre des moralistes, l'esprit fin de siècle, le courant impressionniste, l'humanisme et le mysticisme nouveaux. Le cours met l'accent sur les éléments novateurs apportés par le mouvement surréaliste et sur ses présupposés, psychanalytiques notamment. Le cours a pour objectif l'étude des textes novateurs de la période étudiée afin de saisir l'interrogation morphologique et idéologique qui les accompagne et la mise en évidence d'équivalences avec les littératures européennes de la même période.

## FES 241 Littérature Contemporaine (1945- )

Le cours a pour objectif de présenter les grandes lignes de l'histoire de la littérature française contemporaine et d'initier les étudiants à la prose de l'après-guerre à travers l'étude de textes majeurs, représentatifs notamment du mouvement existentialiste, de la littérature de l'absurde et du Nouveau Roman.

## FES 242 Littérature Baroque et Classique

Le cours propose une étude de la littérature française du XVIIe siècle et met en relief la diversité de la création littéraire et artistique de cette période. Il approfondit aussi bien la poésie que les genres narratifs. La littérature d'idées, la pensée religieuse et le théâtre font l'objet d'une attention particulière. Le cours a également pour objectif de montrer les rapports entre l'esthétique architecturale et littéraire par exemple, où dominant d'une part les thèmes de la métamorphose, de l'inconstance, de la fuite et du mouvement, et le souci de régularité, de vraisemblance et de permanence d'autre part.

## FES 244 La Néologie et le Renouveau Lexical

La néologie est le procédé lexical principal qui contribue en soi au renouvellement lexical d'une langue donnée. Il s'agit d'un phénomène linguistique contemporain très important dans la mesure où on observe, actuellement, la naissance ou la création de nouveaux mots quotidiennement. Ces nouveaux mots appartiennent à des différents domaines: scientifiques, techniques, la langue non standard, la langue de jeunes, etc. Nous pouvons citer comme exemple les unités lexicales telles que grexit, mobile tactile, liseuse, smartphone, googler. Dans le cadre de ce cours, nous étudierons les principes fondamentaux du phénomène de la néologie (la définition de la néologie, son objet d'étude, les différents procédés de création lexicale, des changements ou des transformations aux définitions existantes, des phénomènes et des types d'emprunts, etc.). Cette analyse sera complétée par une observation et par la suite par une étude pratique de différents types de textes (entre autres de textes de la communauté européenne et leur traduction dans les deux langues, des bases de données, des dictionnaires de la langue générale et des dictionnaires de langues de spécialités, des traductions officielles de textes, etc.).

## FES 245 Rhétorique de la Publicité

Le cours porte sur la notion de communication et met l'accent sur la publicité. Il traite différentes formes de communication (verbale, non-verbale, directe et indirecte) et il examine la façon dont les informations sont transmises au destinataire dans les messages publicitaires. Ce cours a pour objectif d'étudier: 1) la langue (écrite, audiovisuelle, langage du corps, paralangage etc.), 2) les figures de style (métonymie, métaphore, périphrase, l'allégorie, comparaison, parallélisme, hyperbole, litote etc.) paronomase et 3) la dimension culturelle du message publicitaire dans l'acte de communication. Les étudiants sauront comment la publicité communique avec son récepteur. Ils seront capables de comprendre, de traiter et d'évaluer les informations données dans la publicité.

## FES 282 La Bataille des Langues en Europe

Le cours entend montrer que les enjeux linguistiques sont simultanément des enjeux politiques. S'il faut se garder de trop facilement étiqueter de «nationaliste» l'attachement des peuples à leur langue lorsque c'est parfois tout ce qui leur reste pour «faire société» à l'heure de la libre circulation des capitaux, des biens et des services et de la course planétaire aux profits, il faut aussi se garder des réflexes identitaires face à l'ouverture vers le monde. Le cours examine des études de cas particuliers (Belgique, pays basque espagnol, Malte), comme des luttes que se livrent des langues européennes dominantes entre elles.)

## FES 290 Introduction to European Literature

European Literature, starting with the Homeric epics, was particularly developed after the invention of typography. Beyond the literature and famous writers of Europe presented in the course through their representative texts, the course focuses on the issue of the existence of a "European literature". Also, which forms or principles are common, representing a European conscious or unconscious culture?

## FES 300 Lexicologie – Lexicographie

I- Communication; Sens; Signe linguistique, II- Lexicologie: Types de dictionnaires; La définition dans les dictionnaires de langue, III- Les analyses du sens lexical: analyse sémique ou componentielle, Prototypes et stéréotypes, IV- Relations sémantiques: hyperonymie et hyponymie, synonymie, antonymie, co-hyponymie, V- Polysémie et homonymie, métaphore, métonymie, synecdoque, VI- Formations des mots. Les étudiants maîtriseront les concepts élémentaires de la sémantique lexicale. Ils sauront 1) définir les différents types de dictionnaires et les différents types de définitions; 2) expliquer les procédés de formation des mots.

## FES 301 Sociolinguistique

Les notions traitées dans ce cours sont les suivantes: langue et usage; norme endogène et norme exogène; variable, variété et variation; l'enquête sociolinguistique: objectifs, outils, méthodologie; la variation géographique (langue, dialecte, géolecte, topolecte, parler et patois); l'exemple d'un topolecte particulier; le sociolecte (prestige latent et prestige apparent); le sexolecte; les situations de contact

des langues; la diglossie et le bilinguisme; le créole, le pidgin et le sabir; les aspects du système linguistique d'un créole francophone; la planification linguistique et son importance politique dans la francophonie.

### FES 302 Analyse Linguistique du Texte

Les notions traitées dans ce cours sont les suivantes: analyse du texte; texte et discours; textualité; les rapports à l'intérieur de la phrase et en dehors de la phrase; la cohésion; la cohérence; la progression de l'information: thème et rhème; les types de progression thématique. Les étudiants sauront que les catégories grammaticales diffèrent des catégories textuelles, que des problèmes grammaticaux 'traditionnels' peuvent être diversement abordés; que la mise en texte requiert des compétences particulières. Ils sauront repérer les règles textuelles qui organisent un texte et les appliquer dans leurs propres productions.

### FES 303 Phonologie

Les points traités seront: phonétique articulatoire; phonétique combinatoire; interprétation phonologique de données; initiation à la théorie phonologique via les deux modèles structuraliste et générativiste. Les étudiants connaîtront les bases de la phonétique articulatoire, de la phonétique combinatoire et des phénomènes prosodiques. Ils sauront décrire les sons du français d'un point de vue articulatoire et connaîtront les oppositions phonologiques du système français. Sur la base d'un corpus, de consignes précises et en appliquant les deux modèles théoriques expliqués, ils pourront résoudre des problèmes phonologiques présentés dans le cours.)

### FES 310 Langue, Histoire et Société

Les notions traitées seront: les familles de langues du monde, le groupe indo-européen; la formation de la Romania et de l'Europe; le substrat et le superstrat; principes et lois de phonétique historique et leur application aux voyelles et aux consonnes; évolution morphologique du syntagme nominal; historique de l'orthographe; tradition lexicographique. Les étudiants sauront expliquer les changements du système de la langue française et certaines évolutions phonologiques précises; expliquer des exemples d'évolution morpho-syntaxique du latin vulgaire au français moderne; comprendre les singularités de la langue française mais aussi connaître les éléments communs aux autres langues latines.

### FES 325 European Literatures

This course stems from the fields of Comparative Literature and Literary Theory. The first part is theoretical and offers a brief account of fundamental concepts. The second part focuses on more specific issues such as the establishment of national literatures in Europe, the emergence of the 'great authors', the appearance and disappearance of certain texts in various canons, the creation of a European literary corpus and its importance in the ideological colonization of the non-Western world, as well as its problematization within the postcolonial paradigm and its

consequences on the overall readability of non-European literary production.

### FES 330 L'intégration Européenne (Module Jean Monnet)

The course is a historical and thought-provoking presentation of the European construction, after an introduction, covering the genesis and evolution of the European concept from Antiquity to the nineteenth century. Furthermore, on the basis of a body of literary texts (Moschos, Podiébrad, Camões, Alexis Léger, Jean Monnet), the foundations of European integration since 1950 are analysed, as well as institutions and current EU policies. Cross-cutting issues are: the theory of climates, the *christianitas*, and the European identity. The course is designed for students to acquire knowledge that allows not only to take an active part in the new social, cultural, political and economic European environment, but to better understand and positively criticize it.

### FES 340 Littérature du XIXe siècle

Le cours s'intéresse aux grands mouvements littéraires français qui ont vu le jour au XIXe siècle tels le romantisme, le réalisme, le naturalisme. Il analyse leur maturation, leurs grands moments et leur mutation dans une approche qui entend montrer des schémas thématiques et stylistiques transversaux. L'étude des grands mouvements littéraires du XIXe siècle français dans leur division en genres cherche à mieux rendre compte des genres nouveaux ou renouvelés au cours de la période étudiée et de l'interrogation qui les accompagne. Plus globalement, elle permet de mettre l'accent sur ce qui prépare la modernité littéraire.

### FES 342 Littérature de la Renaissance

Le cours se propose de suivre l'évolution de la littérature française à travers la nouvelle vision anthropocentrique établie par l'humanisme; de faire valoir les rapports entre littérature et idéologie qui passent par le questionnement religieux de la Réforme face au catholicisme; d'étudier les genres littéraires à la lumière de la redécouverte de l'Antiquité (formes poétiques fixes, rhétorique, lyrisme, textes moralistes) et au cours de leur métamorphose (le grotesque chez Rabelais, l'essai de Montaigne, etc.). Le cours a pour objectif d'apprendre aux étudiants à lire des textes anciens en mettant à profit les analyses contemporaines.

### FES 343 Littérature du XVIIIe siècle

Le cours met l'accent sur la force subversive des textes littéraires et philosophiques des Lumières. Outre l'extrême variété du genre romanesque (romans picaresques, d'apprentissage social, de mœurs, érotiques, exotiques, etc.), sont examinées ses différentes formes (épistolaire, autobiographies fictives ou réelles, récits d'apprentissage rétrospectifs, discours dialogués). Les Lumières engendrent aussi toutes sortes de démythifications, dans le domaine de la littérature comme dans celui des idées, donnant naissance aux notions fondamentales de la philosophie et de la science politique. Le cours a pour objectif de former l'esprit critique par son spectacle: critique de la société, des genres et du discours critique lui-même.

## FES 350 Littérature Comparée

Le premier volet de ce cours est théorique: définition de la littérature comparée et présentation de son évolution, de ses notions-clés et de ses points de repère théoriques (l'intertextualité, la réception, l'horizon d'attente, l'interculturalité, les géographies littéraires, etc.). Le second volet propose des textes qui se prêtent à une lecture comparatiste. Le cours a pour objectif de montrer comment la critique littéraire établit des relations de différence et de similitude entre les textes; de mettre en question l'«objectivité» des divisions entre les littératures nationales et les genres littéraires, mais aussi entre des discours différents et des systèmes sémiotiques distincts.

## FES 391 Intellectual Movements in Europe: Renaissance, Reform, Enlightenment

While the great movements between 1400 and 1800 – Renaissance, Reformation and Enlightenment – are considered cradled in, respectively, Italy, Germany and France, their reality was pan-European. A multiplicity of thinkers and written works brought about incalculable changes. Among these, Humanism placed the individual in a new system of values, social and political. Medieval authority met increasing opposition from emancipatory concepts and movements that often derived from Greek and Roman philosophy, literature and art. New concepts of the cosmos and the world emerged, with a strong anthropocentric predilection. The course will study deep changes in philosophical, literary, political and social dimensions.

## FES 392 L'archipel de la Pensée Européenne

This course studies the theoretical constructions that support the political and social establishment of "Europe" and links them to the historical evolution of its people. The course focuses on the theory of the state by Hobbes, on ideas emerging from the three revolutions (English, American, French), which established democracy in Europe and the world, and also on theories of liberalism and socialism that put their mark on the 20th century. This course helps students to comprehend the role of philosophical theories in political and social changes and to familiarise with the idioms of European intellect.

## FES 411 Discours, Société et Idéologie: les Media Français

Politics is one of the social fields where discourse practices are the most prevalent: political knowledge is, by definition, based on ideology and political ideologies are reproduced, to a great extent, through discourse. The course begins from the framework of the theory of announcement. It studies and analyses data including articles from French press, blogs and internet forums, regarding political and social events.

## FES 420 Discours dans le contexte des Lumières Européennes

The course follows the interpretation of European Enlightenment in the homonymous work of the late Panayotis Kondylis. Kondylis analyses the multiple ideas and intellectual schemes trending in the field of the

European spirit from the early and late Enlightenment. The writer analyses the way that the old Christian and God-centric world icon is replaced by contemporary. This course will focus on four areas: science, society, economy and politics. For each one of these areas, we will examine the carriers of change, their designation as structural points of the new world icon, as well as the new scientific, social, economic and political reality, as set in the new historical framework. The course forms part of the broader philosophical analysis of the genesis of the dominant principles of European contemporaneity.

## FES 425 Economy as Bio-politics in Foucault

The concept of *raison d'État* (always in French in international bibliography) implies a particular understanding of the political act as independent or contrary to the applicable ethics, laws and rules. Its origins can be traced to the Renaissance in Italy and attributed to the Florentine Niccolò Machiavelli (1469-1527). The term *raison di Stato* per se was advanced by the Venetian Jesuit Giovanni Botero (1544-1617) in 1598 with a very significant departure from the philosophy of Machiavelli, whom he was conflicting. The *raison di Stato* was not about increasing the power of the Prince by military means, but the strengthening of the State through the active support of the national economy, conceived as the capacity of the labor force for production of goods and wealth generating taxes to state coffers. This does not mean that the State renounces deception and violence in trying to strengthen the economy. The French philosopher Michel Foucault (1926-1984), for whom, during the modern period, the logic of life (economy) supersedes the logic of death (politics), analyses this fundamental change in the orientation of the modern State in the general study of the History of Sexuality in the West (1976-1984), by introducing the term of bio-politics.

## FES 428 Introduction to Theories of Beauty

"Beauty" is a fundamental category in European art and literature. The course gives a short introduction to the long history of the term from antiquity to modernism. To this end, extracts of the key historical texts by Ovid ("Metamorphoses"), Plato ("Phaedrus"), Schiller ("On naive and sentimental poetry", 1795), Darwin ("The Descent of Man and Selection in Relation to Sex", 1871) and Freud ("Civilization and its discontents", 1930) will be dealt with. Examples drawn from visual arts and literature will be discussed and analysed in detail.

## FES 430 Cinéma: La Tradition Européenne

L'Europe n'est pas seulement le continent qui a vu naître le cinéma avec les frères Lumière (France, 1895), mais également le lieu de naissance des courants cinématographiques les plus importants d'un point de vue artistique: le cinéma expressionniste allemand, la première avant-garde, le cinéma surréaliste, le cinéma soviétique expérimental, l'école scandinave, le néo-réalisme italien, le Free cinema britannique, la Nouvelle Vague française, le nouveau cinéma allemand, le Dogme95 danois, etc. Tout aussi importants sont les metteurs en scène et les acteurs

exilés à Hollywood avant et pendant la deuxième Guerre mondiale.

#### **FES 431 Les Misérables: un chef-d'œuvre littéraire, 50 films**

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Entre littérature et cinéma, tous deux arts de la narration, les relations sont souvent envisagées à travers le prisme de l'adaptation des textes littéraires, dont la pratique a alimenté des débats parfois très vifs. Les Misérables (1862) de Victor Hugo, roman social du XIXe siècle qui n'a pas perdu de son actualité, a inspiré une riche filmographie dès 1897 avec le court métrage des frères Lumière Victor Hugo et les principaux personnages des Misérables. Depuis, plus de cinquante réalisateurs ont adapté le roman, ce qui permet d'examiner les questions relatives à l'adaptation des œuvres littéraires au cinéma: Un film peut-il recréer, sous de nouvelles formes, ce que l'on croit spécifiquement littéraire? Cherche-t-il à transcrire ou à interpréter sa source? Questions différemment abordées par les cinéastes, qui feront l'objet d'analyses lors du cours.

#### **FES 444 Introduction à la Théorie du «Sublime»**

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The "Sublime" is a main category in European Art. The course intends to make an introduction to the history of "sublime" from antiquity to post-modernism. For this reason, we will read excerpts from classical texts, such as the dissertations of Longinus ("Of the height of eloquence", 1st century B.C.), of Boileau («Traité du sublime», 1674), of Burke («A Philosophical Enquiry into the Origin of our Ideas of the Sublime and Beautiful», 1757), of Kant («Kritik der Urteilskraft», 1790) and of Lyotard («Le sublime et l'avant-garde», 1988). Samples of European Literature and art will be also analysed, for the comprehension and critique of this aesthetic theory.

#### **FES 483 L'art Européen et la Mythologie Grecque**

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Ancient Greek myths are an integral part of European culture. They enrich literature, theatre, films, music and visual arts. Why are we still interested in ancient myths? Why do they not lose their charm? This course studies different approaches to this issue. It goes back to the beginnings of the scientific exploration of ancient mythology. Changes and transformations of the mythical tradition will be studied, as well as newer approaches in the fields of literary the interpretation, psychoanalysis and semiotics. Finally, the course addresses the broader relationship between myth and philosophy, religion, society and politics.





Faculty of Humanities

## ● ● ● ● Department of Turkish and Middle Eastern Studies

[www.ucy.ac.cy/tms/en](http://www.ucy.ac.cy/tms/en)

### **CHAIRPERSON**

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## INTRODUCTION

Turkish Studies deal with Turkish and other Turkic languages, history, literature and cultures, from the first written evidence of the Turkish language in the 8th century up to the present. Various sub-disciplines of Turkish Studies have emerged. Turcology or Turkic Studies are concerned with the entire spectrum of Turkish languages and literatures. Ottoman Studies are devoted primarily to the languages, history and culture of the Ottoman Empire (14th-20th centuries). Modern Turkish Studies focus on the politics, literature, economy and society of Turkey in the 20th century. Islamic Studies are, on the one hand, an integral part of Ottoman Studies and Modern Turkish Studies, and on the other hand serve as a connecting link to Middle Eastern peoples (mainly Arabs and Iranians), their languages and cultures. Turkish studies also include the study of the Balkan peoples in relation to the Ottoman and Turkish world.

Turkish Studies at the University of Cyprus cover many of the above-mentioned areas of Turkish and Middle Eastern Studies. Thematic emphases are set by the local and regional contexts and especially that of the Turkish Cypriot community, as well as the wider region; by the interests and orientation of the department's staff; and by the employment prospects and possibilities for future academic work for the department's graduates.

## PROGRAMME OF STUDIES

The Department's programme leads to a B.A. degree in Turkish Studies, which will emphasise one of the two directions:

- a) History and Politics
- b) Linguistics and Literature.

The courses are divided into: Core Courses and Direction Courses.

### I. CORE COURSES

#### LANGUAGE COURSES

The aim of the language courses is to teach the Turkish language to a satisfactory standard; in other words, in such a way that students can converse in Turkish, can translate from Turkish to Greek and vice versa, and, above all, can easily read academic literature and other publications written in modern Turkish. The linguistic training also includes instruction in the reading of Ottoman Turkish. The successful completion of the Turkish language courses of the first four semesters (Turkish I-IV) is a prerequisite for registration in the following specialized language courses (14 courses, totalling 86 ECTS).

#### GENERAL INTRODUCTORY COURSES

These provide concise coverage of the fundamental subjects in the main field (Turkish Studies). Students study the causes and circumstances of the rise and spread of the Muslim religion as well as the appearance of the Ottomans, the formation and subsequent decomposition of the Ottoman Empire, the formation of the Turkish State and its

history up to the present. The courses in Ottoman and Turkish Literature are intended to give students an overview of the most important literary works and authors (8 courses, totalling 49 ECTS).

## II. DIRECTIONS

The Direction courses offer students the chance to deepen their knowledge in one of two fields:

- a) History and Politics
- b) Linguistics and Literature.

Students are obliged to choose a direction at the beginning of the sixth semester.

There are 10 compulsory courses in each Direction, totalling 63 ECTS, and two restricted elective courses, totalling 12 ECTS. The successful completion of the relevant introductory courses in the first five semesters is a prerequisite for registration in the courses with the title "Themes ...". Likewise for registration in the Seminars students must have passed those courses entitled "Themes..." in the same direction. Students of both Directions are entitled to take one restricted elective course from the other Direction (including the compulsory courses of the other Direction). Furthermore, there are restricted elective courses which are common to both Directions and from which students can select one (6 ECTS).

The undergraduate dissertation is considered a restricted elective course which counts for 12 ECTS (6 ECTS in each of two semesters).

## DEGREE REQUIREMENTS

To obtain the B.A. Degree in Turkish and Middle Eastern Studies students must complete 240 ECTS, which are divided as follows:

Courses	ECTS
20 Core Courses (Language/ General Introductory Courses)	135
12 Direction courses	75
3 Foreign Language Elective Courses	15
3 Free Elective Courses	15
<b>TOTAL: 38 courses</b>	<b>240</b>

## DESCRIPTION OF COURSES

### Compulsory Courses and Direction Compulsory Courses

#### TUM 100 Grammar & Syntax I (8 ECTS)

The course is offered to those students of the Department who have no previous knowledge of the Turkish language. In the framework of the course the special symbols of the alphabet, the phonetics, the phonology, the morphology and the syntax of the Turkish language, with explanation of grammatical categories based on examples and exercises, are described. From the point of view of methodology, content and technique, the course is linked to the course

TUM 106, "Language Exercises I". It aims to give students a basic level of grammar and syntax.

#### **TUM 101 Grammar & Syntax II (8 ECTS)**

*Prerequisites: TUM 101 and TUM 106*

The course is a continuation of the course TUM 100, "Grammar and Syntax I" and is offered to students of the Department who have successfully completed the courses TUM 100, "Grammar and Syntax I" and TUM 106, "Language Exercises I". In the framework of the course, and bearing in mind the needs of the course TUM 107, "Language Exercises II", study of the morphology and syntax of Turkish with examples and exercises is continued. The aim of the course is to give students an intermediate level of knowledge of the grammar and syntax of the Turkish language.

#### **TUM 106 Language Exercises I (11 ECTS)**

The course is offered to those students of the Department who have no previous knowledge of the Turkish language. From the point of view of methodology, content and technique, the course is linked to the course TUM 100, "Grammar and Syntax I". It seeks to give to the students a basic vocabulary and practice in the reading, comprehension and composition of simple texts. Emphasis is placed on communication in Turkish through practice in the oral use of the language, using simple dialogues and audiovisual means.

#### **TUM 107 Language Exercises II (11 ECTS)**

*Prerequisites: TUM 100 and TUM 106*

The course is a continuation of the course TUM 106, "Language Exercises I" and is offered to those students of the Department who have successfully completed the courses TUM 106, "Language Exercises I" and TUM 100, "Grammar and Syntax I". In the framework of the course and bearing in mind the needs of the course TUM 101, "Grammar and Syntax II", the enrichment of vocabulary, practice in reading and in the oral use of language, the comprehension and the composition of texts are continued. The aim of the course is intermediate level knowledge of the written and oral forms of the Turkish language.

#### **TUM 120 Introduction to Turkish Studies (6 ECTS)**

The course aims to familiarise students with the spectrum of Turkish Studies including historical, literary and religious topics and the historical development of the discipline. Participants will become acquainted with research tools such as encyclopedias, manuals, scholarly journals and bibliographies and the major centres of Turkish Studies.

#### **TUM 122 Introduction to Islam (6 ECTS)**

The course examines the origins and development of Islam and familiarises students with the fundamentals of Islamic religious beliefs and practices as well as the relationship of religion and politics.

#### **TUM 200 Grammar and Syntax III (6 ECTS)**

*Prerequisites: TUM 101 and TUM 107*

The course is a continuation of the course TUM 101 "Grammar and Syntax II" and is offered to those students of the Department who have successfully completed the courses TUM 101, "Grammar and Syntax II" and TUM 107, "Language Exercises II". In the framework of the course and bearing in mind the needs of the course TUM 206, "Language Exercises III", the study of morphology with emphasis on the syntax of composite sentences is continued. The aim of the course is an advanced level of knowledge of the grammar and syntax of the Turkish language.

#### **TUM 201 Grammar and Syntax IV (5 ECTS)**

*Prerequisites: TUM 200 and TUM 206*

This class enables the transition from the grammatical and syntactical exercises of previous classes to the standard and therefore more difficult texts to be encountered in subsequent semesters. Texts of intermediate difficulty from a variety of publications will be studied, for example short stories, articles in journals and sections of books. Special attention will be devoted to a number of grammatical phenomena which either are of unusual interest or else are exceptionally difficult for the students to understand and master. The course is to be taken by students of the Department who have passed TUM 200, Turkish Grammar III and TUM 206, Language Exercises III.

#### **TUM 206 Language Exercises III (7 ECTS)**

*Prerequisites: TUM 101 and TUM 107*

The course is a continuation of the course TUM 107, "Language Exercises II" and is offered to those students of the Department who have successfully completed the courses TUM 107, "Language Exercises II" and TUM 101, "Grammar and Syntax II". In the framework of the course and bearing in mind the needs of the course TUM 200, "Grammar and Syntax III", the enrichment of vocabulary, the composition of texts, the reading and comprehension of more difficult texts, as well as the practice in oral use of the language are continued. The aim of the course is an advanced level in the use of the written and oral forms of the language.

#### **TUM 210 Translation Turkish-Greek (6 ECTS)**

*Prerequisites: TUM 101 and TUM 107*

The course is offered to those students who have successfully completed the courses TUM 200, "Grammar and Syntax III" and TUM 206, "Language Exercises III". The course focuses on practising the technique of translating Turkish texts of different types and origins into Greek. Emphasis is placed on comprehension of grammatical categories and syntactical structure. The aim of the course is to familiarise students with the translation of Turkish texts of advanced level.

### **TUM 220 Introduction to Turkish Linguistics (6 ECTS)**

The course examines the basic elements and the current theories of Turkish linguistics. After an introduction to general linguistics, the following elements are taught: methods of analysis of the Turkish language (concentrating on the most commonly accepted); synchronic description of phonology, morphology and syntax; lexicography; dialectology; inter-linguistic contact; bilingualism; Turkish language policy. Examples of these phenomena taken from texts in the modern and other forms of the language are used in teaching.

### **TUM 230 Ottoman Language (7 ECTS)**

**Prerequisite:** TUM 101

To register for this course, students must have passed the Turkish language courses of the first three semesters. Students are first taught to write the Arabic script, then learn the vocabulary, the phonology and the morphology of Turkish in the Ottoman period. The course's aim is acquisition of the ability both to read and to write simple texts in Ottoman.

### **TUM 240 Introduction to Modern Turkish Literature (6 ECTS)**

**Prerequisites:** TUM 101 and TUM 107

This course provides a grounding in the main developments, categories and authors of Turkish literature of the 19th-21st centuries. Students are given the opportunity to study and analyze small text passages in Turkish.

### **TUM 251 Introduction to Ottoman History (6 ECTS)**

The course consists of an introduction to the history of the Turkish presence in Asia Minor and to that of the Ottoman Empire. It begins with an account of the Turks' arrival in Asia Minor from Central Asia and Iran and continues with a survey of the pre-Ottoman states, and particularly that of the Seljuks. It covers essential aspects of the origins of the Ottoman Empire, and its expansion and consolidation in Asia Minor, the Balkans and the Middle East (14th – 16th centuries). Consideration will be given to the principal institutions of this period and to the Ottoman decline of the following period (16th – 18th centuries) and the causes of the decline. The Empire's territorial contraction in the latter period will also be described. The Ottoman reforms which took place from the late 18th to the early 20th century and the consequent changes in Ottoman institutions, will be examined, especially those of the Tanzimat period (1839-78).

### **TUM 260 History of Turkey (6 ECTS)**

This course offers an introduction to the historical roots of the present Turkish state, to the changes and developments of the last decades of the Ottoman Empire's existence and to the history of the Turkish state from its formation to the present. After a brief reference to the Ottoman legacy, the genesis of the Turkish Republic, the formation of the nation-state and political developments are discussed. Important themes are the Kemalist reforms, the transition to the

multipart system in 1950 and the changes in Turkish society within the last century. We undertake a survey of the various elements of Turkey's population and a discussion of the emergence and role of political Islam in the last four decades. Included in the course is a brief introduction to the sources for the history of modern Turkey.

### **TUM 301 Language of the Media (Audiovisual) (5 ECTS)**

**Prerequisites:** TUM 200, TUM 206 and TUM 316

A language course based on the analysis of audiovisual material. TV advertisements, movies, documentaries, news broadcasts, music clips are used as sources to develop listening and understanding skills through an acquaintance with the living colloquial language in the context of Turkish culture.

### **TUM 302 Themes in Turkish Linguistics (7 ECTS)**

*(Linguistics and Literature Direction)*

**Prerequisite:** TUM 220

The course examines various issues of Turkish linguistics. The methods of linguistics are applied to phenomena in the fields of morphonology, morpho-syntax and semantics. Elements of pragmatics and language acquisition are studied, as are the sociolinguistic aspects of Turkish.

### **TUM 304 Main genres of modern Turkish literature (6 ECTS)**

*(Linguistics-Literature Direction)*

This course introduces the main genres of modern Turkish literature - prose, drama and poetry - and their key representatives. The course is aimed at students who have basic knowledge in Turkish.

### **TUM 305 Turkey in the World (6 ECTS)**

*(History - Political Science Direction)*

Turkey is at a strategic position at the crossroads of regional systems of critical importance for the whole world. The Middle East, Europe, the Caucasus and Central Asia, are regions which, to various degrees, influence and are influenced by Turkey's position. Turkey itself has historical, social, political and cultural relations with all these regions because of the legacy of the Ottoman Empire. At the same time, Turkey is a member of NATO and has the second largest army of the Alliance. Throughout the years, despite many problems, Turkey still maintains relations with the European Union. Turkey is ranked among the world's twenty largest economies and seeks to develop multi-faceted economic relations with many parts of the world. In such a context, the course aims at analyzing Turkey's position in the world from 1923 to the present day. The course analyses not only the political and economic development of Turkey through its interaction with its region, but also with the global system. At the same time, the course examines the various political and ideological perceptions of the Turkish state with regards to Turkey's relations with the different states in the region, as well as with international organizations.



**TUM 310 Translation Greek-Turkish (6 ECTS)****Prerequisites:** TUM 101 and TUM 107

The course is offered to those students who have successfully completed the course TUM 210, "Translation Turkish-Greek". Students practise the techniques of the translation of simple texts from Greek to Turkish. Emphasis is placed on the recasting of the grammatical and syntactical categories of Greek in Turkish. The aim of the course is an initial familiarity with the translation of texts into Turkish.

**TUM 316 Dialogue (6 ECTS)****Prerequisites:** TUM 101 and TUM 107

Students are given practice in oral communication. The aim of the course is to enable students to discuss various subjects in Turkish.

**TUM 322 Cyprus During Ottoman Rule (6 ECTS)**

The aim of the course is to study the history of Cyprus during the Ottoman period (1571-1878) and to integrate developments on the island into the Ottoman and broader context. During the semester, the basic structures of the Ottoman administration on the island, the changes in these structures, especially in the 18th and the 19th centuries, as well as the impact of the changes on the political, economic and social level will be examined. Developments and changes in the island during the 19th century will be analyzed in the broader context of developments in the Ottoman state and the changes brought about by the impact of reforms.

**TUM 340 Introduction to Ottoman Literature (7 ECTS)****Prerequisites:** TUM 101 and TUM 107

In this course, basic knowledge on the main developments, categories and authors of Ottoman literature of the 14th-20th centuries is given. Students read short poems and text passages in Ottoman as well as transcriptions of Ottoman literary works.

**TUM 342 Literature and Society in Turkey***(Linguistics and Literature Direction)*

Modern Turkish literature dates back to the 19th century. It developed in interaction with social and political developments and was therefore from its beginning a barometer for the state of Turkish society. In this course, texts are read and discussed that reflect certain social and political developments, such as the National Literature at the beginning of the Republican period, the Village Literature in the nineteen fifties to seventies, and the political novels of the nineteen seventies and later. The course is aimed at students who are already able to read some Turkish, as we will read texts in the original.

**TUM 350 Themes in the History of the Ottoman Empire (7 ECTS)***(History - Political Science Direction)*

The aim of the course is to gain a deeper knowledge of particular aspects of the Ottoman Empire. It is based on the study and analysis of Ottoman and other sources. The themes are focused on Ottoman institutions and the changes within them.

**TUM 380 History of Middle East (6th-20th century) (7 ECTS)***(History - Political Science Direction)*

The course provides a broad survey of major events and themes in the history of the Middle East from the emergence of Islam until the end of the 20th century. It gives an account of the principal Islamic empires and dynasties (e.g. Umayyads, Abbasids, Mamluks, Safavids), discusses the encounter of the Middle East with the Crusaders, focuses on the character of Ottoman decline in the Middle East and concludes with a look at the changed map of the region in 19th and 20th centuries.

**TUM 402 Morphology of the Turkish Language (6 ECTS)***(Linguistics and Literature Direction)***Prerequisite:** TUM 220

The application of the methods of linguistics, including theoretical linguistics, to the Turkish language; and the use of these methods to elucidate the language's morphological phenomena.

**TUM 404 Issues in Turkish Syntax (6 ECTS)***(Linguistics and Literature Direction)***Prerequisite:** TUM 220

The aim of the course is to provide a wider and more detailed study of the syntactical phenomena of the Turkish language and at the same time to familiarize students with the bibliography on Turkish syntax in Turkish and other languages.

**TUM 410 Themes in Modern Turkish Literature (7 ECTS)***(Linguistics and Literature Direction)***Prerequisites:** TUM 201

The course offers an in-depth examination of the main themes of modern Turkish literature. It is based on the reading of Turkish literary texts and essays. Specialized themes are: literature after the Tanzimat reforms, the influence of European romanticism and symbolism; realism; postmodernism in contemporary Turkey; the literature of Turkish writers in exile; and literature in the theatre and cinema.

#### **TUM 417 Seminar of Turkish Literature (6 ECTS)**

*(Linguistics and Literature Direction)*

**Prerequisite:** TUM 201

The seminar's deals with one special aspect of Turkish literature, to be chosen by the instructor. The themes differ from semester to semester and have to be appropriate for an advanced level of students. The seminar is in Turkish. Students read and discuss texts of Turkish literary authors and secondary literature in Turkish.

#### **TUM 420 Turkish-Cypriot Literature (6 ECTS)**

*(Linguistics and Literature Direction)*

**Prerequisite:** TUM 201

The purpose of this seminar is to discuss aspects of Turkish-Cypriot literature which have come into being and been developed in consequence of the co-existence of Turkish-Cypriots with the Greek-Cypriot community and of their exposure to Greek-Cypriot and Ottoman culture and to that of Modern Turkey. In the seminar texts of advanced standard in both Turkish and English will be read. The principal language of instruction is Turkish.

#### **TUM 425 Historical Grammar of the Turkic Languages (6 ECTS)**

*(Linguistics and Literature Direction)*

**Prerequisite:** TUM 220

This course offers a survey of the most important historical developments in the Turkic speaking world, connecting them to the formation of different language groups and their literary traditions -- from the first mentioning of the Turks in historical sources and the period documented in the inscriptions to the formation of the medieval Turkic-Islamic states and of present day nation states. The interaction between different groups of speakers of Turkic and non-Turkic background has resulted in a number of linguistic features that nowadays establish characteristic criteria for the classification of the Turkic languages. A basic knowledge of the historical connections is an important prerequisite for our understanding of the formation of these distinct languages and dialects and of the position of Turkish of Turkey in this language family.

#### **TUM 431 Seminar in Turkish Linguistics (6 ECTS)**

*(Linguistics and Literature Direction)*

**Prerequisite:** TUM 201

One or more topics of the Themes-classes (TOY 410) (e.g.: The Structure of Turkic, Applied Grammar, Historical Grammar, Dialectology and Sociolinguistics) is presented with more in-depth analysis, using Turkish not only as a target language and in reading primary sources, but also as a language of instruction.

#### **TUM 432 Literature and Politics in Modern Turkey (6 ECTS)**

*(History-Political Science Direction)*

The main objective of the course is to analyse and understand the contradictions and changes that characterize Turkey's political, economic and social life since the emergence of the Turkish Republic in 1923 until today. An important contribution of the course is to familiarize students with various analytical and theoretical tools in order to understand Turkey's political, economic and social development, as well as the broader transformation of the country as it evolves through the alternation of political and economic equilibria. At the same time, the main focus of the course is to connect cultural development, and especially literature, to Turkey's most important historical moments. Taking into account the complexity of literature, culture, identity and political process, this course aims at their creative interconnection and the identification of their fields of interaction. In this course, modern Turkish literature is a constituent part of the evolving ideological and political environment of modern Turkey. In this way, the course seeks to contribute to the understanding of the historical evolution of the country through the different cycles that end up in the same chain of knowledge. The bibliography and the sources of the course combine historical writings with the study of important literary works.

#### **TUM 450 Themes in the History and Politics of Turkey (7 ECTS)**

*(History - Political Science Direction)*

This course develops several themes of the lesson TUM 260, History of Turkey in greater depth. At the centre of attention are the study of the Turkish polity (institutions and administration), governmental policies, and party politics. The legal system, too, will be examined. Students will read sources relevant to the various units.

#### **TUM 455 Greek-Turkish Relations**

*(History - Political Science Direction)*

The aim of the course is to analyse the relations between the Turkish and the Greek state from 1923 to the present. The course examines the historical context of Greek-Turkish relations since the establishment of the Turkish state, the causes of the continuous friction between the two states, the external factors and the international context that affect the relations between them, and the reflection of the Cyprus problem in these bilateral relations. The course examines in depth various themes concerning Greek-Turkish relations, such as their legal dimension, the political developments within the two states and how these affect relations between them, as well as the changes that the fluid international environment, especially after the end of the Cold War, imposes upon the development of these relations.

**TUM 463 Communal Relations in Cyprus (6 ECTS)***(History - Political Science Direction)***Prerequisites:** TUM 210, TUM 230 and TUM 260

In this course, emphasis will be placed on communal relations in Cyprus beginning just before the Ottoman period, during the Ottoman period and after. Daily life, cultural and linguistic interaction, mixed marriages, change of religion, social and working relations, etc.

**TUM 469 The Turkish-Cypriot Community (6 ECTS)***(History-Political Science Direction)*

After an introduction to the Ottoman rule of Cyprus, the development of the Turkish-Cypriot community in the 19<sup>th</sup> and 20<sup>th</sup> centuries will be studied. Special emphasis will be given to the population structure, social and religious institutions as well as to the emergence of nationalism within the community and its effects on the formation of the community's identity. The language of instruction is normally Turkish.

**TUM 471 Seminar in the History and Politics of Turkey (6 ECTS)***(History-Political Science Direction)***Prerequisite:** TUM 260

The seminar constitutes the most advanced level of the study of Turkish history and politics within the curriculum. It focuses on the development of economy and society in modern Turkey. Specific themes covered include the transition of Turkey from a largely agrarian country to a fast-developing nation, its social structures and developments (e.g. in the areas of population and education) and the role of religion in society.

**TUM 478 Seminar in Ottoman History (6 ECTS)***(History-Political Science Direction)***Prerequisite:** TUM 251

The purpose of the seminar is to study various periods of the Ottoman history, as well as the most important institutions of the Ottoman state (13<sup>th</sup>-20<sup>th</sup> century). Within the framework of this class, and with the help of sources, various thematic units will be analysed (e.g. social structures, expressions of authority, aspects of administrative organization). Students will have to write a paper on one of the topics, which will be discussed in the course of the seminar. Pre-requisite for participation in the seminar is the successful completion of the courses "Introduction to Ottoman History" and "Themes in the History of the Ottoman Empire".

**RESTRICTED ELECTIVE COURSES****I.LINGUISTICS-LITERATURE****TUM 405 Didactics of the Turkish Language (6 ECTS)**

The course introduces students to certain aspects of applied linguistics, especially in the field of language acquisition, language assessment methods and curriculum development. These aspects of applied linguistics are then used to formulate approaches to the teaching of Turkish to different age groups.

**TUM 407 Turkish Dialectology (6 ECTS)**

The course contains an introduction to the methods and problems of modern dialectology, particularly of dialect geography. Possibilities of classification of Turkish dialects in Anatolia and Rumelia will be discussed through isoglosses and other methods. After that, practical exercises with reading and linguistic analysis of dialect texts from different regions of Turkey will form the main part of the course.

**TUM 411 Old Anatolian Turkish: Its Linguistic Features and Literature (6 ECTS)**

The course aims at familiarizing students with the amalgam of linguistic forms which is the first written evidence of Turkish in Asia Minor: it appears in the 13<sup>th</sup> century during the Seljuk period. Old Anatolian Turkish ("Eski Anadolu Türkçesi"), as it is known, also includes early Ottoman ("Old Ottoman"). Old Anatolian's principal phonological and morphological features are taught, using modern Turkish as a comparison. Students will read literary texts of the 13<sup>th</sup> and 15<sup>th</sup> centuries.

**TUM 413 Literature of the Tanzimat (6 ECTS)**

During this course the literature written during the reforms of the 19<sup>th</sup> century is presented. This literature exhibits significant influences from Western Europe. It was in this period that the term Ottomanism became accepted in literature. After a review of the themes of Tanzimat literature (1860-1896), as well as the next movement, "New Literature" (of the magazine Servet-i Fünun), parts of the work of the main authors (i.e. Ahmed Midhat, Namık Kemal for the Tanzimat, Halid Ziya Uşaklıgil, Mehmed Rauf for the Servet-i Fünun) will be read and analysed.

**TUM 414 The Turkish Novel (6 ECTS)**

A survey of the development of the novel in Turkish literature from the first works (influenced by European novels), which appeared in the mid-19<sup>th</sup> century, down to contemporary authors. Representative texts are selected for reading and analysis in the course.

**TUM 415 Contemporary Turkish Poetry (6 ECTS)**

The course is an introduction to the works of the great contemporary poets from the 1930s to the 1970s. On the one hand, the most recent poets are examined from the perspective of tradition and on the other hand, the changes

in poetic tone and form which have taken place in the last few decades. The structural elements of contemporary poetry are examined within various theoretical frameworks.

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**TUM 416 Istanbul in Turkish Literature (6 ECTS)**

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In the history of Turkish literature Istanbul occupies an important position. Poets praised the city for centuries. In the modern period epochal changes have led to a changed perception of the metropolis on the Bosphorus. Time and again, Istanbul has been the place where the Ottoman past and the West meet. In this course, important works from different periods are treated from the following points of view: Which aspects of the city are selected as central themes? What consequences does this have for the description of the city as regards content and form?

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**TUM 423 The Turkish Cypriot Dialect (6 ECTS)**

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The aim of the course is the study of the Turkish Cypriot dialect in the framework of Turkish dialectology. Essential constituents of the course are: points of difference with the standard language, sociolinguistic aspects of the dialect's use and phenomena of language contact with the Greek Cypriot dialect. Oral and written texts in the dialect will be the base for linguistic analysis.

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**TUM 430 Bilingualism and Language Contacts (6 ECTS)**

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In this course, Contact Linguistics are applied to the study of linguistic phenomena observed in areas of contact and bilingualism involving Turkic and non-Turkic languages: for example, in central Asia Minor; in the cities of the Ottoman Empire and modern Turkey; in central Europe (where the language in question is that of Turkish migrants); the Gagauz: contacts between Iranian and Turkic languages. Different aspects of contact are examined: the phonetic, the morphological, syntax, vocabulary. Examples both from oral literature and from written texts are used.

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**TUM 432 Comparative Grammar of the Turkic Languages (6 ECTS)**

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A comparison of the Turkish of contemporary Turkey with languages in the other sub-groups of the Turkic languages. The grammar of the most representative languages in each group (Oghuz, Oghuz-Chuvash, Kipchak, Turki, southern Siberian, Yakut), is studied.

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**TUM 433 Greek-Turkish Language Contacts (6 ECTS)**

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After an introduction to the methods of general contact linguistics, examples of linguistic interaction in the periods and regions of Greek-Turkish contact are studied (Asia Minor, Pontos and Istanbul in the 19th century, Cyprus and the Balkans up to the present, districts of Greece such as Thrace, Epiros, Crete). Besides lexical "loans", the phonetic, phonological, morphological and syntactical aspects are examined as part of the process of linguistic application and substitute. An important example is the Turkish Cypriot and Greek Cypriot dialects.

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**TUM 434 Karamanlidika (6 ECTS)**

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An introduction to the history of the Turkish-speaking Greek populations of Asia Minor and to their literature ("Karamanlidika" as it is known) and to Turkish literature in the Greek alphabet in general (e.g. in Istanbul). The greater part of the course consists of an analysis of the script and language of texts taken from different periods and genres (religious, literary, historical).

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**TUM 435 Balkan Turcology (6 ECTS)**

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The course deals with the two main subjects of Balkan Turcology (a branch of General Turcology): the study of the Turkish dialects of the Balkan peninsula and the influence of the Turkish language on the languages of Southeast Europe. The objectives of the course are the following: familiarity with the classification of the Rumelian (Balkan) dialects in the framework of Turkish dialectology, the study of the phenomena of linguistic contacts with the Balkan languages and the exploration of the extent of Turkish influence on the relevant languages of the Balkans (e.g. Greek, Albanian, Romanian, Bulgarian, Serbian).

## **II. HISTORY - POLITICS**

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**TUM 440 The Byzantium and the Ottomans (6 ECTS)**

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In this course, the relations between the Ottoman Empire and Byzantium and from the mid-14th century to the mid-15th are examined. Special emphasis is placed on the question whether and to what extent the Ottomans inherited institutions from the Byzantine Empire. The course includes the study of primary sources in Greek and Turkish. This will include texts by Greek translation, texts by Byzantine authors accompanied by a Modern Greek translation; and texts in Ottoman Turkish (either in the Arabic or in the Modern Turkish alphabet).

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**TUM 441 Institutions of the Ottoman Empire (6 ECTS)**

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In this course, the institutions of the classical period (15th-16th century), the causes of their decline as well as the institutions that developed during the 19th century are examined. The course aims for a closer examination of significant aspects of the Ottoman Empire that were first studied in the introductory course TUM 250 and the direction course TUM 350. Selected primary sources will be read during the course.

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**TUM 442 Ottoman Chronicles (6 ECTS)**

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In this course, some of the principal Ottoman historical chronicles of the 16th and 17th century are examined. The course focuses on the study of the chronicles as sources for Ottoman History and their use in the historiography of the 19th century.

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**TUM 444 The Tanzimat (6 ECTS)**

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In this course, the reforms of the Tanzimat period and the institutions which resulted from these reforms are studied. Selected primary sources will be read.



### **TUM 445 The History of Education in the Ottoman Empire and Republican Turkey (6 ECTS)**

In the process of westernisation and modernisation in the Ottoman Empire education played a major role. Efforts to reform the educational system began in the first half of the 19th century. Here the emphasis was on the study of Islam. It was not until the early 20th century that secular schools and curricula were introduced. With the establishment of the Turkish Republic religious schools were abolished and a three-stage educational system came into being. The course will look at the historical background of the educational system of modern Turkey, as well as the contemporary education system itself, with reference to the more important trends in educational thinking.

### **TUM 452 The Emergence and Development of Turkish Nationalism (6 ECTS)**

The course starts with an introduction to theories of nationalism, and then progresses to an account of the development of Turkish nationalism. The course examines both the historico-political circumstances which favoured the development of Turkish nationalism and the ideas of its spiritual founders, for example, Ziya Gökalp and Yusuf Akçura. The coverage of the course extends to Kemal Atatürk's conception of Turkish nationalism and the latter's development in the period of single-party rule.

### **TUM 453 Islam in Contemporary Turkey (6 ECTS)**

The principal concern of the course is the status of Islam in the Turkish Republic. Among the subjects covered are the religious reforms during Kemal's tenure of power, Kemal's conception of the secular state, the relation between Islam and politics, the post-Kemal period and the relationship between the state, society and religion.

### **TUM 455 Contemporary Diplomatic History of Turkey (6 ECTS)**

The aim of the course is to introduce students to the international relations and diplomacy in the Turkish Republic. Students will learn in historical sequence the problems of Turkish foreign policy.

### **TUM 456 Turkey and the European Union (6 ECTS)**

The course focuses on the relations between Turkey and the European Union, which formally began in the early 1960s and are still continuing. Turkey's progress towards membership in the European Union and the effects of this progress on the internal structure of the country, including reforms, are one of the main subjects of the course. Emphasis is placed on the perception of Europe according to Turkish public opinion and the perception of Turkey by Europeans.

### **TUM 457 Political Thought in Contemporary Turkey (6 ECTS)**

In this course, the ideas and movements which emerged in the 19th century and affected contemporary Turkey are examined. Main topics of the course will be Kemalism,

liberal thought, left-wing thought, secularism, nationalism, conservative and particular Islamic movements.

### **TUM 458 Political Parties in Contemporary Turkey (6 ECTS)**

In this course the establishment and development of the political parties in contemporary Turkey are studied. The period of the one-party system (1920-1950), then the establishment of the multi-party system (1950 and after) are examined. The main political parties and their political programme, their ideological roots and the personalities who affected the political life of the country are presented.

### **TUM 460 Ottoman Sources for the History of Cyprus (6 ECTS)**

Archives of Ottoman sources on Cyprus. Historiographical survey and publications of Ottoman sources about Cyprus. Sources on the history of Cyprus (i.e. Ottoman, Greek and Western) in comparative perspective. Ottoman sources: Chronicles, Defters, Documents. Analysis (diplomatic and historical) and critical commentary of the Ottoman sources on Cyprus. Emerging conclusions and comparison with established historiographical theories.

### **TUM 470 Islamic Reform Movements (6 ECTS)**

Attempts to reform religious ideas and practices as well as political and social ways of life preceded Western influences in Islamic countries. The domination of European states in the Middle East gave additional impetus to the Islamic reform movements which emerged after the 18th century. The course examines the various movements (e.g. the Wahhabiya, the Salafiya) and compares their origins, programmes, activities and influence.

### **TUM 472 Contemporary Ideas and Movements in the Middle East (6 ECTS)**

The ideas and movements which have influenced the Middle East from the 19th century to the present day. The first part of the course concerns the movement for the modernisation of Islam. Secondly the rise of Arab nationalism is described. The third part of the course is concerned with Islamic fundamentalism.

### **TUM 473 The Kurds in the Middle East (6 ECTS)**

Kurdish history is generally studied from the viewpoint of the neighbouring peoples (Arabs, Iranians, Turks). On the one hand there are historical reasons for this (the sources for Kurdish history are predominantly in the relevant three languages) and on the other hand, there are current political reasons (hardly any promotion of historical research without nation-state). It is one of the objectives of the course to move the history of the Kurds from this marginality into the centre of attention. Particular themes will be examined: the Kurds in the Middle Ages (e.g. the emergence of the term "Kurdistan" under the Seljuks), the situation of Kurdish principalities between the empires of the Ottomans and the Safavids, the consequences of Ottoman centralisation policies for the Kurds in the 19th

century, the development of Kurdish nationalism and the partition of the regions inhabited by Kurds after World War I.

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**TUM 476 The Armenians Under Turkish Rule (6 ECTS)**

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The starting-point of the course is the Armenian massacres of the First World War. The next stage is the relations of the Republic of Armenia with Turkey up to the Second World War and the position of the Armenians in the Republic of Turkey. The course then goes back in time to the Armenian cultural renaissance of the 18th century, and from there progresses to the institutions of Armenian society in the Ottoman Empire and the links between those institutions and the state. Finally, the course examines the effect of the 19th-century Ottoman reforms on Armenian society, the development of the Armenian revolutionary movement and its consequences, particularly in the massacres. The course is taught as a seminar, where the students make an active contribution, normally in the form of presentations within the class.

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**TUM 477 History of the Balkan Peoples during the Ottoman Empire**

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An overview of the history of the Balkan peoples from the end of the 14th century to the beginning of the 20th century, with special emphasis on the legal and economic position of the individual as a member of a religious community, either Muslim or non-Muslim. Different peoples will be examined separately, taking into consideration the changes in the nature of Ottoman administration and in international commercial conditions. Students will read primary material and secondary sources in Turkish.

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**TUM 483, Contemporary Turkish Historiography (6 ECTS)**

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One of the corner-stones of Turkish Nationalism was the discovery of Anatolia as homeland of the Turks, a view was adopted and defended by academic and popular scientific historiography. Whereas pre-Islamic and Seljuk history were in fashion in the first decades of the Republic, Ottoman History has been the focus of attention since 1950's. The course covers the developments which have taken place in the 20th century and tries to show how historiography, ideology and politics interrelate.

## **COURSES COMMON TO BOTH DIRECTIONS**

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**TUM 480 Turkish Language Reform (6 ECTS)**

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Efforts at reforming the Turkish and Ottoman languages started in the second half of the 19th century. At the beginning of the 20th century several writers advocated the adoption of the Latin alphabet, while others tried to promote a reformed version of the Ottoman script. In 1928 the law concerning the introduction of the Latin alphabet was passed. In this course, the stages of language reform and language policies in the Turkish Republic and the current debate are discussed mainly on the basis of texts in the Turkish language.

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**TUM 490 Ottoman Paleography (6 ECTS)**

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The course is open to students who have already taken the course "Introduction to Ottoman Diplomats and Paleography." It includes the reading of manuscripts and the study of their different scripts.

## ANALYTICAL PROGRAMME OF STUDIES- LINGUISTICS AND LITERATURE

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
TUM 100 Grammar and Syntax I (6 hours) (C)	8	TUM 310 Translation Greek-Turkish (C)	6
TUM 106 Language Exercises I (Reading, Writing, Dialogue) (6 hours) (C)	11	TUM 316 Dialogue (C)	6
TUM 120 Introduction to Turkish Studies (IG)	6	TUM 322 Cyprus during Ottoman Rule (IG)	6
Foreign Language Course	5	TUM 340 Introduction to Ottoman Literature (IG)	7
<b>TOTAL</b>	<b>30</b>	Elective Course	5
		<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
TUM 101 Grammar and Syntax II (6 hours) (C)	8	TUM 301 Language of the Media (audiovisual) (C)	5
TUM 107 Language Exercises II (Reading, Writing, Dialogue) (6 hours) (C)	11	TUM 302 Themes of Turkish Linguistics (CD)	7
TUM 122 Introduction to Islam (IG)	6	TUM 304 Main genres of Modern Turkish Literature (CD)	6
Foreign Language Course	5	TUM 342 Literature and Society in Turkey (CD)	7
<b>TOTAL</b>	<b>30</b>	Elective Course	5
<b>YEAR TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>30</b>
		<b>YEAR TOTAL</b>	<b>60</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
TUM 200 Grammar and Syntax III (3 hours) (C) 6		TUM 402 Morphology of the Turkish language (C)	6
TUM 206 Language Exercises III (Reading, Writing, Dialogue) (6 hours) (C)	7	TUM 404 Issues in Turkish Syntax (C)	5
TUM 220 Introduction to Turkish Linguistics (IG)	6	TUM 410 Themes in Modern Turkish Literature (CD)	7
TUM 251 Introduction to Ottoman History (IG)	6	TUM 425 History of the Turkic Languages (CD)	7
Foreign Language Course	5	Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>8th Semester</b>	
TUM 201 Grammar and Syntax IV (C)	5	TUM 417 Seminar in Turkish Literature (CD)	6
TUM 210 Translation Turkish-Greek (C)	6	TUM 420 Turkish Cypriot Literature (CD)	6
TUM 230 Ottoman Language (C)	7	TUM 431 Seminar in Turkish Linguistics (CD)	6
TUM 240 Introduction to Modern Turkish Literature (IG)	6	Two Restricted Elective Courses	12
TUM 260 History of Turkey (IG)	6	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>GRAND TOTAL</b>	<b>240</b>

**Note:**

(C) = Compulsory Language Course

(IG) = Compulsory Introductory-General Course

(CD)= Compulsory Direction Course

## ANALYTICAL PROGRAMME OF STUDIES- HISTORY AND POLITICS

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
TUM 100 Grammar and Syntax I (6 hours) (C)	8	TUM 310 Translation Greek-Turkish (C)	6
TUM 106 Language Exercises I (Reading, Writing, Dialogue) (6 hours) (C)	11	TUM 316 Dialogue (C)	6
TUM 120 Introduction to Turkish Studies (IG)	6	TUM 322 Cyprus during Ottoman Rule (IG)	6
Foreign Language Course	5	TUM 340 Introduction to Ottoman Literature (IG)	7
<b>TOTAL</b>	<b>30</b>	Elective Course	5
		<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
TUM 101 Grammar and Syntax II (6 hours) (C)	8	TUM 305 Turkey in the World (CD)	6
TUM 107 Language Exercises II (Reading, Writing, Dialogue) (6 hours) (C)	11	TUM 301 Language of the Media (audiovisual) (C)	5
TUM 122 Introduction to Islam (IG)	6	TUM 350 Themes in the History of the Ottoman Empire (CD)	7
Foreign Language Course	5	TUM 380 History of the Islamic Middle East (CD)	7
<b>TOTAL</b>	<b>30</b>	Elective Course	5
<b>YEAR TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>30</b>
		<b>YEAR TOTAL</b>	<b>60</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
TUM 200 Grammar and Syntax III (3 hours) (C)	6	TUM 432 Literature and Politics in Contemporary Turkey (CD)	6
TUM 206 Language Exercises III (Reading, Writing, Dialogue) (6 hours) (C)	7	TUM 450 Themes in the History and Politics of Turkey (CD)	7
TUM 220 Introduction to Turkish Linguistics (IG)	6	TUM 455 Greek-Turkish Relations (CD)	5
TUM 251 Introduction to Ottoman History (IG)	6	TUM 463 Communal Relations in Cyprus (CD)	7
Foreign Language Course	5	Elective Course	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>8th Semester</b>	
TUM 201 Grammar and Syntax IV (C)	5	TUM 469 The Turkish-Cypriot Community	6
TUM 210 Translation Turkish-Greek (C)	6	TUM 471 Seminar in History and Politics of Turkey (CD)	6
TUM 230 Ottoman Language (C)	7	TUM 478 Seminar in Ottoman History (CD)	6
TUM 240 History of Modern Turkish Literature (IG)	6	Two Restricted Elective Courses	12
TUM 260 History of Turkey (IG)	6	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>YEAR TOTAL</b>	<b>60</b>	<b>GRAND TOTAL</b>	<b>240</b>

**Note:**

(C) = Compulsory Language Course

(IG) = Compulsory Introductory-General Course

(CD)= Compulsory Direction Course



## RESTRICTED ELECTIVE COURSES

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### A. LINGUISTICS - LITERATURE

TUM 405 Didactics of the Turkish Language  
TUM 407 Turkish Dialectology  
TUM 411 Old Anatolian Turkish: Its Linguistic Features and Literature  
TUM 413 Literature of the Tanzimat  
TUM 414 The Turkish Novel  
TUM 415 Contemporary Turkish Poetry  
TUM 416 Istanbul in Turkish Literature  
TUM 423 The Turkish Cypriot Dialect  
TUM 430 Bilingualism and Language Contacts  
TUM 432 Comparative Grammar of the Turkic Languages  
TUM 433 Greek-Turkish Language Contacts  
TUM 434 Karamanlidika  
TUM 435 Balkan Turcology

### B. HISTORY AND POLITICS

TUM 440 The Byzantium and the Ottomans  
TUM 441 Institutions of the Ottoman Empire  
TUM 442 Ottoman Chronicles

TUM 444 The Tanzimat  
TUM 452 The Emergence and Development of Turkish Nationalism  
TUM 453 Islam in Contemporary Turkey  
TUM 456 Turkey and the European Union  
TUM 457 Political Thought in Contemporary Turkey  
TUM 458 Political Parties in Contemporary Turkey  
TUM 460 Ottoman Sources for the History of Cyprus  
TUM 470 Islamic Reform Movements  
TUM 472 Contemporary Ideas and Movements in the Middle East  
TUM 473 Kurds in the Middle East  
TUM 476 The Armenians under Turkish Rule  
TUM 477 History of the Balkan Peoples  
TUM 483 Contemporary Turkish Historiography

### C. COMMON COURSES FOR BOTH DIRECTIONS

TUM 480 Turkish Language Reform  
TUM 490 Ottoman Paleography

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**Note:** All Restricted Courses can also be taught as Seminars.

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ΚΤΗΡΙΟ ΣΥΜΒΟΥΛΙΟΥ ΣΥΓΚΡ.  
"ΑΝΑΣΤΑΣΙΟΣ Γ. ΑΕΒΕΝΤΗΣ"





Faculty of Humanities

## ● ● ● ● The Language Centre

[www.ucy.ac.cy/langce/en](http://www.ucy.ac.cy/langce/en)

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## INTRODUCTION

The Language Centre of the University of Cyprus provides the necessary resources and services to University members, who might need foreign language competence for their studies or for personal interest. The Centre also assists students to satisfy the University's foreign language requirement (5 ECTS).

The Language Centre is dedicated to helping students succeed in mastering languages other than their mother tongue. As students acquire the four linguistic skills (speaking, listening, reading and writing), they also develop social and cultural competences in the language they study. These processes are enhanced, through guided use of contemporary media such as magazines and newspapers, television and cinema, as well as various forms of instructional technology, including the blackboard course management system, computer-mediated communication (discussion forum, chat, blogs) and the internet.

The programme currently offers three courses for general Academic English and ten English courses for Specific Purposes (ESP). It also offers four levels of French, German, Italian, Spanish and Turkish language studies. In addition, there are three levels for Russian and Chinese. All syllabi of languages, other than English, are aligned with the Common European Framework of References (CEFR)\* for Languages. All Language Centre courses, from beginner to advanced levels, are taught in the language of instruction.

Language Centre courses can be taken as elective or compulsory subjects. When compulsory, exemptions may be granted based on external certification, previous equivalent courses, or examination results. No exemption is granted for Languages Specific Purposes (LSP) Coursework. Further information on the exemption regulations is available at [www.ucy.ac.cy/langce/en](http://www.ucy.ac.cy/langce/en)

Courses offered at the 200 code are designed at the B2 CEFR Level, with elements of the C1 level.

The Centre supports adult education programmes of the Centre of Continuing Education, Assessment and Development by offering language courses to organizations and companies. It also contributes to the secondary School Teachers' Pre-service Programme offered by the University.

Since 2011, the Language Centre has been offering intensive summer elective courses. The courses are offered for 7 weeks during June and July.

\*The CEFR is used as reference in the design of all the English language courses; elements of the CEFR descriptions are covered in all the syllabi.

## ENGLISH LANGUAGE COURSES

The main aim of this programme is to help students function academically and socially in a university setting. Students engage collaboratively in the completion of pedagogically and linguistically motivating tasks in order to develop and enhance knowledge of English in an academic context. Students, entering the first level of English Language Studies (LAN 100), are expected to be

approximately at the level of the Cambridge FCE Exam or at the B1+ (Threshold) level of the Common European Framework of Reference for Languages.

In addition to where the courses are compulsory by the various departments, all English language courses can also be taken as free electives, provided that the prerequisites (if any) are met.

## COURSE DESCRIPTIONS

### LAN 100 General Advanced English (5 ECTS)

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This course is designed to help students function in English in an academic environment. Students are given ample opportunities to improve their command of English overall. By completing various task-based activities, students will have progressive practice in their reading, writing, speaking and listening skills. More specifically, students are introduced to a variety of techniques to help them read academic texts more quickly and productively, including: skimming and scanning, understanding the meanings of vocabulary items from context clues, locating the main idea(s) and supporting details, determining the author's purpose for writing, examining organizational patterns of writing, and finally preparing and delivering an informative presentation.

### LAN 101 Academic English (5 ECTS)

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**Prerequisite:** LAN 100 or equivalent

This course enables students to continue to develop proficiency in all areas of the language regarding reading, writing, speaking and listening. The primary focus of this course is to encourage students to engage critically with the language, whether spoken or written, and to recognize and question the validity of ideas encountered in materials. Emphasis will be placed on differentiating fact from opinion, detecting author bias, understanding inferences, recognizing tone, developing vocabulary, and expressing opinion in writing tasks. Students will also deliver a persuasive presentation. They will learn not only to collect, assess, and synthesize information, but also to use persuasive language effectively.

### LAN 200 General Topics in Academic English (5 ECTS)

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**Prerequisite:** LAN 101 or equivalent

This course is thematically designed to develop students' fluency and confidence in using English in an academic context, exploring various negotiated topics. Students will continue to improve their integrated language skills and proficiency in reading, writing, listening, and speaking addressing advanced English language vocabulary and language use. They will be encouraged to further hone their digital literacy skills and develop peer assessment skills, through various group and task-based activities: identifying specific writing techniques, locating and discussing contradictory viewpoints in materials, and learning to appraise sources for suitability, bias, and propaganda. A variety of media is used as teaching material: books, journals, newspapers, films as well as the internet.



## English for Specific Purposes

### LAN 102 English for Architecture (5 ECTS)

#### *Prerequisite: LAN 100 or equivalent*

This course is designed to meet the needs of undergraduate students specializing in the field of Architecture. Reading materials incorporated into the course, taken from a wide variety of authentic contemporary journal articles, are designed to familiarize students with the literature and terminology in the respective subject. The course focuses on activating all language skills, through cooperative task-based work. Tasks include delivering oral presentations on a topic connected to the field of Architecture, reading and writing documents in architectural contexts, developing academic study skills, listening, speaking and extensive terminology practice on topics such as construction sites, plans and materials.

### LAN 103 English for Biomedical Sciences (5 ECTS)

#### *Prerequisite: LAN 100 or equivalent*

This course is specifically designed to meet the needs of undergraduate students specializing in the fields of Biology and Medicine. It aims at enabling students to use the English language efficiently and fluently, during their academic studies and later in their professional lives. The course focuses on activating all language skills through collaborative task-based work. Tasks include delivering scientific poster presentations, reading and writing scientific texts such as articles and abstracts, developing academic study skills, listening and speaking within the context of biomedical sciences, and developing an extensive vocabulary, focused on topics related to biology and medicine.

### LAN 104 English for Technical Purposes (5 ECTS)

#### *Prerequisite: LAN 100 or equivalent*

This course aims at improving Engineering students' skills in reading, writing, listening and speaking, with particular emphasis on comprehending written material. Attention is also given to summary, process and memo writing, in addition to the expansion of engineering related vocabulary. In order to cater to the specific needs of students, class texts are taken from engineering and/or science magazines, so as to assist students in familiarizing themselves with real world materials. The ability to summarize and present information through PowerPoint presentations also enhances comprehension and allows students to better cope with the vast array of English language engineering related to literature.

### LAN 109 English for Law (5 ECTS)

#### *Prerequisite: LAN 100 or equivalent except for Law students*

This course is particularly designed to meet the needs of undergraduate students specializing in the field of Law. It aims at enabling students to use the English language efficiently and fluently, during their academic studies and later in the performance of their duties as qualified lawyers. The course focuses on activating all language skills,

through cooperative task-based work in a legal context: delivering oral presentations, reading and writing legal documents (such as letters giving legal advice, legal memos, case notes, etc.), developing academic study skills, listening and speaking about legal matters and extensive legal terminology practice.

### LAN 111 English for Computer Science (5 ECTS)

#### *Prerequisite: LAN 100 or equivalent*

This course aims at helping students communicate successfully in the field of Computer Science by teaching them the use of effective reading, writing and speaking strategies. The course intends to improve students' understanding by studying articles related to their field of study. In addition, students will engage in writing activities to facilitate the art of writing more concisely and coherently. Oral presentations will help improve speaking fluency. An additional aim of the course is to widen students' Computer Science vocabulary. Collaboration and interaction between students will be achieved through various group and task-based activities.

### LAN 201 Business Communication for Management (5 ECTS)

#### *Prerequisite: LAN 101 or equivalent*

This course aims to prepare students for the challenges they will face both at University level and in their workplace. Emphasis is placed on written and oral language as a way of improving communication. The instructor will facilitate the students' understanding of the theory behind good communication and will be looking for evidence of students having understood the theory and of being able to implement that given theory by producing business memos, by developing their note-taking and paraphrasing skills, by writing clear and accurate summaries of business readings, as well as by giving effective business oral presentations in the thematic areas of Business Communication and Accounting/Finance.

### LAN 202 English for Public Speaking (5 ECTS)

#### *Prerequisite: LAN 101 or equivalent except for European studies students*

This course is designed to improve communicative skills in English in an academic setting, through a combination of theory and practice. In order to develop proficiency in verbal communication, students will complete a variety of activities, both individual and group, and be evaluated by their peers and their instructor according to task type. Course materials are drawn from an extensive selection of current printed matter, online resources, video and podcasts. One of the intentions of this course is to encourage students to begin to recognize the parameters, within which their own culture operates, and understand the important role that intercultural skills play when engaging in public speaking activities.

### **LAN 203 English for European and International Relations (5 ECTS)**

**Prerequisite:** LAN 101 or equivalent

This course aims to encourage and support the practice of the English language, in the context of European and International relations, and at the same time to provide students with subject-specific knowledge through the medium of English. The course is task-oriented and addresses a number of thematic areas. Focus will be placed on comprehension and production, as well as on intercultural skills. Possible themes will include: The functioning of European and International institutions, European and Regional integration and political, economic and social cooperation, among others. This course offers students the opportunity to develop their communicative competence in the specific field of European and International Relations.

### **LAN 209 Advanced English for Global Communication (5 ECTS)**

**Prerequisite:** LAN 101 or equivalent

This course is designed to encourage the practice of the English language in a social, academic, and professional context. The course focuses on advanced level readings, such as the United Nations Human Development Report and other topics based on authentic material, as well as listening, all of which serve as a catalyst for discussion and writing tasks, i.e. note-taking and summary writing. The course is task-based, aiming at students in achieving fluency and developing concise and coherent text production; students will be required to work on a case study towards compiling a group opinion report and an individual podcast. Extensive vocabulary specific to Economics will be practiced throughout the course, in order to enhance students' overall language competence.

### **LAN 212 English for the Workplace (5 ECTS)**

**Prerequisite:** LAN 101 or equivalent

The course aims to better prepare learners for the workplace by introducing, developing and honing a set of transferable language-related skills, pivotal from the stage of looking for a job, to applying for one, to entering and practicing in the workplace. Using a wide range of authentic material, the four main linguistic skills will be exercised. The course will employ a mixture of task-based, skills-based methodologies and will encourage a hands-on approach. Students will receive ample practice and opportunities, working both individually and in groups, to become familiar with and refine the real-life tasks and skills introduced. Upon successful completion of the activities involved and of the assessment, learners will be expected to be well-equipped language- and skills-wise with regards to the respective workplace requirements.

## **FRENCH LANGUAGE COURSES**

The French language is one of the three working languages of the European Union together with the English and the German language and one of the two working languages of the UN, UNESCO and NATO, amongst others. The

decision making centres of the European Union and other international organizations are located in various French speaking cities, including Brussels, Strasbourg, Luxembourg, Geneva, and Lausanne. This implies work access in areas of politics, economics, diplomacy, law, business and transport.

The French language courses, structured in accordance with the proficiency levels of Common European Framework of Reference for Languages, are intended to develop effective communicative skills, as well as social and cultural skills and knowledge, through the use of a variety of approaches based on interaction and the use of audio-visual and authentic materials.

## **COURSE DESCRIPTIONS**

### **LAN 105 French Beginners Level I (5 ECTS)**

In this course, students will acquire the basic language skills of listening, speaking, reading and writing, enabling them to understand and use simple French in everyday life.

### **LAN 106 French Beginners Level II (5 ECTS)**

**Prerequisite:** LAN 105 or equivalent

At this stage, students will be able to communicate in simple routine situations and handle short social exchanges on familiar and everyday topics. By the end of the course, students are expected to be competent at the A1 (Breakthrough) level of the CEFR.

### **LAN 107 French Intermediate Level I (5 ECTS)**

**Prerequisite:** LAN 106 or equivalent

At this stage, students are expected to be able to communicate in situations related to routine matters and to have greater confidence in their oral and written expression. By the end of the course, students are expected to be competent at the A2 (Waystage) level of the CEFR.

### **LAN 108 French Intermediate Level II (5 ECTS)**

**Prerequisite:** LAN 107 or equivalent

This course continues to develop communicative skills, teaching students how to express opinions and exchange views on everyday situations and current events. It explores different aspects of contemporary France, using audiovisual and authentic materials. By the end of the course, students are expected to be well on their way to the B1 (Threshold) level of the CEFR.

## **French for Specific Purposes**

### **LAN 110 French for Specific Purposes – History and Archaeology - Intermediate Level I (5 ECTS)**

**Prerequisite:** LAN 106 or equivalent

This course is designed for the students of the Departments of Classics and Philosophy, History and Archaeology, and Byzantine and Modern Greek Studies. It aims at developing comprehension of French texts in these areas of specialization. Particular attention is focused on specialized vocabulary / terminology in the above fields of study.

Grammatical knowledge is expanded within the context of the texts examined. By the end of the course, students are expected to be well on their way to the A2 (waystage) level of the CEFR.

## GERMAN LANGUAGE COURSES

German is the language with the largest number of speakers within the European Union, spoken in Germany, Austria and most parts of Switzerland. Within the academic world, a good knowledge of German is especially important in disciplines such as Classics, Philosophy, Archaeology and History.

The programme of German courses is organized, in accordance with the proficiency levels of the Common European Framework of Reference for Languages (CEFR). It develops all four communicative skills, as well as social and cultural knowledge, through the use of a variety of methodologies based on interaction, the use of authentic material including modern media like film, and the exploitation of computer-based resources such as the internet and blackboard.

## COURSE DESCRIPTIONS

### LAN 070 German Beginners Level I (5 ECTS)

This course will teach students how to function at a very basic level of listening, speaking, reading and writing, enabling them to understand and use simple language, based on a limited sentence structure and familiar vocabulary related to areas of immediate relevance (personal background, cafés, countries/languages, housing, daily routine, etc.).

### LAN 071 German Beginners Level II (5 ECTS)

**Prerequisite:** LAN 070 or equivalent

This course will further strengthen the four communicative skills and enable students to understand and exchange information on familiar matters (restaurant, orientation in town, holidays/sights, shopping, etc.) By the end of the course, students are expected to be competent at the A1 (Breakthrough) level of the CEFR.

### LAN 072 German Intermediate Level I (5 ECTS)

**Prerequisite:** LAN 071 or equivalent

The course continues to develop communicative skills allowing students to communicate in situations relative to routine matters and to matters like health, language learning, family, traveling/mobility, spare time, fashion, etc. By the end of the course, students will be well on their way to A2 (Waystage) level of the CEFR.

### LAN 073 German Intermediate Level II (5 ECTS)

**Prerequisite:** LAN 072 or equivalent

This course will enable students to communicate in most situations, with greater confidence in their oral and written expression, concerning the description of experiences, events, future projects, wishes and hopes, reasons and explanations for opinions and plans (on going out,

restaurants, housing, culture, inventions and feasts in Germany, work and education, etc.). By the end of the course, students are expected to be competent at the A2 (Waystage) level of the CEFR.

## ITALIAN LANGUAGE COURSES

The courses of the Italian language, offered by the Language Centre, are structured according to the Common European Framework of Reference for Languages.

Our courses are guided by communicative approach principles and are based on practical activities linked to everyday life, requiring the use of the four language skills: speaking, listening, reading and writing. Particular emphasis is placed on interactive communication, focusing on language use in real situations. The general objectives of the courses are to enable students to communicate at different levels in a variety of contexts. Audio-visual materials and e-learning facilities will be used during the courses to encourage students to practice the structures and topics learned in the classroom, and to promote self-learning and self-evaluation.

## COURSE DESCRIPTIONS

### LAN 075 Italian - Beginners Level I (5 ECTS)

The general aim of the course is for students to acquire the necessary skills to produce and to understand basic oral and written Italian, to fulfil their personal needs and interests and thus be able to give and ask for information and interact with Italians in Italy and elsewhere using simple language.

### LAN 076 Italian - Beginners Level II (5 ECTS)

**Prerequisite:** LAN 075 or equivalent

The general aim of the course is for students to understand and to use common expressions for communication in routine tasks and matters, giving and describing personal details and information related to their immediate environment. By the end of the course, students are expected to be competent at the A1 (Breakthrough) level of the CEFR.

### LAN 077 Italian - Intermediate Level I (5 ECTS)

**Prerequisite:** LAN 076 or equivalent

The general aim of the course is for students to understand and to produce a broad range of communicative and interactive expressions related to personal information, social exchanges, shopping, and employment and to comprehend clear messages and announcements. By the end of the course, students are expected to be competent at the A2 (Waystage) level of the CEFR.

### LAN 078 Italian - Intermediate Level II (5 ECTS)

**Prerequisite:** LAN 077 or equivalent

The general aim of the course is for students to understand and produce a broader range of communicative and interactive expressions. A range of different situations will be given, requiring the exchange of everyday information

and expressions of personal viewpoint on topics discussed during the course. By the end of the course, students are expected to be well on their way to the B1 (Threshold) level of the CEFR.

## SPANISH LANGUAGE COURSES

More than four hundred million people speak Spanish today. Hispanic literature, music, cinema, art, architecture and business reflect a vibrant Latino world.

Studying Spanish as a foreign language offers a good opportunity to learn basic communicative and receptive skills (oral and written). Music, literature, movies and learning in real communicative situations are keys to becoming an autonomous learner. The programme of Spanish courses offered by the Language Centre is correlated with proficiency levels of the Common European Framework of Reference for Languages: A1-A2-B1. Teachers work with students to reach these levels, with particular attention to learner needs and objectives for language acquisition.

## COURSE DESCRIPTIONS

### LAN 085 Spanish – Beginners level I (5 ECTS)

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This course is designed for students with little or no previous knowledge of Spanish. Basic language patterns and vocabulary are taught. Repetition and comprehensible input are important components of this course. Focus is on all five language skills: listening, speaking, reading writing and interaction. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. Students learn to communicate in Spanish in everyday situations: greetings, asking and giving personal information, describing people, places and objects and talking about daily routines, food, recipes, ordering in a restaurant or doing shopping.

In addition to written tests and quizzes, students may also be assessed by means of aural activities. Homework assignments are an integral part of this course; they reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a more meaningful way. Active participation is required. The course is designed at approximately the A1 level as defined by the CEFR.

### LAN 086 Spanish – Beginners level II (5 ECTS)

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*Prerequisite: LAN 085 or equivalent*

This course is designed for students with some knowledge of the Spanish language. It teaches basic language patterns and vocabulary. Focus is on all five language skills: listening, speaking, reading, writing and interaction. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Students learn to describe people, places and objects, talk about traveling experiences, analyze urban structure of a place, describe artifacts and understand sequences of audiovisuals in Spanish.

Homework assignments are an integral part of this course; they reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a meaningful way. Active participation is required. The course is designed at approximately the A2.1 level as defined by the CEFR.

### LAN 087 Spanish – Intermediate level I (5 ECTS)

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*Prerequisite: LAN 086 or equivalent*

This third course is designed for students with a basic knowledge of the Spanish language. It teaches fundamental and more advanced language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Students learn to describe people, places and objects in the present and past tenses, talk and write about past experiences, describe and compare places today and historically, analyze urban structure of historical places, describe inventions and speak and write about cultural events in Spanish.

Homework assignments are an integral part of this course. Active participation is required. The course is designed at approximately the A2 level as defined by the CEFR.

### LAN 088 Spanish – Intermediate level II (5 ECTS)

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*Prerequisite: LAN 087 or equivalent*

This fourth course is designed for students with intermediate knowledge of the Spanish language. More advanced language patterns and vocabulary are taught. Repetition and comprehensible input are important components of this course. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Students learn to describe people, places and objects in the present and past tense, talk and write about experiences, compare and describe places and explain cultural events. They will also learn how to express wishes, orders using the subjunctive present and understand a conference about a familiar subject.

Homework assignments are an integral part of this course. Active participation is required. The course is designed at approximately the B1.1 level as defined by the CEFR.

## TURKISH LANGUAGE COURSES

These courses are intended to introduce students to the Turkish language and prepare them to use the language in their career and daily social activities. This course will help students to develop Turkish language skills in listening, speaking, reading and writing at a level equivalent to the Common European Framework A1 (Breakthrough).



## COURSE DESCRIPTIONS

### LAN 050 Turkish - Beginners level I

The beginner Turkish course is intended to introduce students to the Turkish language and prepare them to use the language in their future working life or daily social activities. They will gain confidence expressing themselves by using simple sentences and exchanging ideas about the culture of the target language. This course will help students to develop Turkish language skills in listening, speaking, reading and writing at a level equivalent to the Common European Framework A1.1 (Breakthrough).

By successfully completing this course, students will have a substantial advantage for their future careers and be able to take the LAN 051 Turkish Course.

### LAN 051 Turkish - Beginners level II

**Prerequisite:** LAN 050 or equivalent

Beginning level II is the sequel to level I and is designed to build upon the four basic skills such as speaking, listening, reading and writing given in level I. This course is intended to introduce students to the Turkish language and prepare them to use the language in their future working life or daily social activities. They will gain confidence expressing themselves, by using simple sentences and exchanging ideas about the culture of the target language. This course will help students to develop their Turkish language skills in listening, speaking, reading and writing.

### LAN 052 Turkish - Intermediate level I

**Prerequisite:** LAN 051 or equivalent

This course is designed to build on the current level of the Turkish language and to further improve on this knowledge. The course will cover aspects of grammar and vocabulary, as well as encompassing the four skills of speaking, listening, reading and writing. The general aim of the course is for students to acquire the ability to accurately understand oral and written Turkish and to speak and write it with some degree of fluency, using basic grammatical and lexical structures in a variety of communicative situations. The teaching methods offer role-play, group discussions, listening, written comprehension exercises and short essay writing.

### LAN 053 Turkish – Intermediate level II

**Pre-requisite** LAN 052 or equivalent

This course is designed for students to improve their previous basic knowledge in the Turkish language. In this course, students have an opportunity to improve their speaking skills through discussions on topics related to routine matters, experiences and future plans. At the end of the course, students are expected to be able to communicate easily both in oral and written language, by using more complicated phrases and expressions. By the end of the semester, students are expected to be able to reach the A2 (Waystage) level of the Common European Framework of Reference for Languages (CEFR).

## RUSSIAN LANGUAGE COURSES

Learning Russian is a process, which helps to develop closer links, relationships and communication between Cyprus and Russia: countries with common linguistic traditions and a rich culture. The programme offered by the Language Centre is organized in accordance with the Common European Framework of Reference for Languages at a level equivalent to A1 (Breakthrough).

## COURSE DESCRIPTIONS

### LAN 090 Russian - Beginners Level I (5 ECTS)

This course is an elementary Russian course, which is designed to teach basic listening, speaking, reading and writing skills. The course focuses on developing oral communicative competency. It seeks to establish oral communication skills, develop students' ability to take part in dialogues and discussions, teach students to read short texts, foster listening comprehension and develop writing skills.

### LAN 091 Russian - Beginners Level II (5 ECTS)

**Prerequisite:** LAN 090 or equivalent

The course is designed for learners with some previous knowledge of Russian. In particular, it seeks to strengthen communication skills, both oral and written, develop students' ability to understand the main ideas of speech directed to them, foster students' expression of their own ideas and opinions, teach students to read short texts on different topics, and develop writing skills, using simple grammatical structures.

### LAN 092 Russian - Intermediate Level I (5 ECTS)

**Prerequisite:** LAN 091 or equivalent

The course presupposes basic language skills in Russian. It seeks to advance students' communication skills, both oral and written, develop students' ability to attain greater competency in their written and oral expressions, and foster students' expression of their own wishes and opinions. The course teaches students to read short texts and review them, as well as further developing writing skills. In particular, it fosters students' ability to write short essays, using complex sentences. By the end of the course, students are expected to be competent at a level equivalent to A1 (Breakthrough) of the CEFR.

## CHINESE LANGUAGE COURSES

The Chinese language courses, offered jointly by the Language Center and the Confucius Institute at UCY, are designed to conform to levels that correspond to both the Common European Framework of Reference for Languages (CEFR) and China's Hànyǔ Shuǐpíng Kǎoshì (HSK, Chinese Proficiency Test).

Our courses are guided by communicative approach principles, and are based on practical activities linked to everyday life, requiring the use of the four skills: listening, speaking, reading and writing. Particular emphasis is placed on interactive communication, focusing on language use in representative situations. The general objectives of the courses are to enable students to communicate at different levels in a variety of contexts, with the aim of preparing them to use Chinese in their future careers and social communication.

Audio-visual materials and e-learning facilities will be used during the courses to encourage students to practice the structures and topics learned in the classroom, and to promote self-learning and self-evaluation. In addition to the 13-weeks of classroom sessions for each level of the course, there will be at least 6 Chinese Language Café Hours in the even weeks during the semester. Students are encouraged to participate in all the Chinese Language Café Hours, to practice and consolidate the language they have learned in class.

## COURSE DESCRIPTIONS

### LAN 060 Chinese Beginners Level I (5 ECTS)

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This course is designed to give students the knowledge to produce and understand basic Chinese - oral and written - in situations of giving and asking basic personal information and interacting in very simple ways with native Chinese speakers.

The learning outcomes upon completion of the first level course, are as follows: (1) Acquisition of the 100 most frequently used Chinese words; (2) Ability to understand and use simple Chinese words and sentences in order to carry out basic communicative activities such as greeting, ordering food, and shopping; (3) Attainment of the CEFR-Pre-level A1 and HSK Pre-level 1 of the Chinese language proficiency test.

### LAN 061 Chinese Beginners Level II (5 ECTS)

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**Prerequisites:** LAN 060 or equivalent

The learning outcomes upon completion of the second level course, are as follows: (1) Acquisition of the 200 most frequently used Chinese words; (2) Ability to use Chinese to communicate in a simple and direct way on familiar topics such as everyday life, work, plans, personal skills, weather, food, accommodation, etc.; (3) Attainment of the CEFR-A1 and HSK Level 1 of the Chinese language proficiency test.

### LAN 062 Chinese Intermediate Level I (5 ECTS)

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**Prerequisites:** LAN 061 or equivalent

The learning outcomes upon completion of the third level course, are as follows: (1) Acquisition of 300 frequently used Chinese words; (2) Ability to use Chinese to carry out communicative tasks in a variety of areas such as daily life, work, study, and travelling; (3) Attainment of the CEFR-A2 and HSK Level 2 of the Chinese language proficiency test.

### LAN 063 Chinese I Intermediate Level II (5 ECTS)

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**Prerequisites:** LAN 062 or equivalent

The learning outcomes upon completion of the fourth level course, are as follows: (1) Acquisition of 500 frequently used Chinese words; (2) Ability to interact fluently in Chinese with native Chinese speakers on much broader topics; (3) Attainment of the CEFR-Pre-level B1 and HSK Pre-level 3 of the Chinese language proficiency test.

## LIST OF COURSES OFFERED BY THE LANGUAGE CENTRE (5 ECTS each)

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LAN 050 Turkish - Beginners Level I  
LAN 051 Turkish - Beginners Level II  
(prerequisite LAN 050 or equivalent)  
LAN 052 Turkish - Intermediate Level I  
(prerequisite LAN 051 or equivalent)  
LAN 053 Turkish - Intermediate Level II  
(prerequisite LAN 052 or equivalent)  
LAN 060 Chinese Beginners Level I  
LAN 061 Chinese Beginners Level II  
(prerequisite LAN 060 or equivalent)  
LAN 062 Chinese Intermediate Level I  
(prerequisite LAN 061 or equivalent)  
LAN 063 Chinese I Intermediate Level II  
(prerequisite LAN 062 or equivalent)  
LAN 070 German - Beginners Level I  
LAN 071 German - Beginners Level II  
(prerequisite LAN 070 or equivalent)  
LAN 072 German - Intermediate Level I  
(prerequisite LAN 071 or equivalent)  
LAN 073 German - Intermediate Level II  
(prerequisite LAN 072 or equivalent)  
LAN 075 Italian - Beginners Level I  
LAN 076 Italian - Beginners Level II  
(prerequisite LAN 075 or equivalent)  
LAN 077 Italian - Intermediate Level I  
(prerequisite LAN 076 or equivalent)  
LAN 078 Italian - Intermediate Level II  
(prerequisite LAN 077 or equivalent)  
LAN 085 Spanish - Beginners Level I  
LAN 086 Spanish - Beginners Level II  
(prerequisite LAN 085 or equivalent)  
LAN 087 Spanish - Intermediate Level I  
(prerequisite LAN 086 or equivalent)  
LAN 088 Spanish - Intermediate Level II  
(prerequisite LAN 087 or equivalent)  
LAN 090 Russian - Beginners Level I  
LAN 091 Russian - Beginners Level II  
(prerequisite LAN 090 or equivalent)  
LAN 092 Russian - Intermediate Level I  
(prerequisite LAN 091 or equivalent)  
LAN 100 General Advanced English  
LAN 101 Academic English  
(prerequisite LAN 100 or equivalent)  
LAN 200 General Topics in Academic English  
(prerequisite LAN 101 or equivalent)  
LAN 105 French - Beginners Level I  
LAN 106 French - Beginners Level II  
(prerequisite LAN 105 or equivalent)  
LAN 107 French - Intermediate Level I  
(prerequisite LAN 106 or equivalent)  
LAN 108 French - Intermediate Level II  
(prerequisite LAN 107 or equivalent)

### Courses for Specific Purposes

LAN 102 English for Architecture  
(prerequisite LAN 100 or equivalent)  
LAN 103 English for Biomedical Sciences  
(prerequisite LAN 100 or equivalent)  
LAN 104 English for Technical Purposes  
(prerequisite LAN 100 or equivalent)  
LAN 109 English for Law  
(prerequisite LAN 100 or equivalent, except for Law Students)  
LAN 110 French for Specific Purposes, History and Archaeology - Intermediate Level I  
(prerequisite LAN 106 or equivalent)  
LAN 111 English for Computer Science  
(prerequisite LAN 100 or equivalent)  
LAN 201 English for Public and Business Administration  
(prerequisite LAN 101 or equivalent)  
LAN 202 English for Public Speaking  
(prerequisite LAN 101 or equivalent)  
LAN 203 English for European and International Relations  
(prerequisite LAN 101 or equivalent, except for European Studies Students)  
LAN 209 Advanced English for Global Communication  
(prerequisite LAN 101 or equivalent)  
LAN 212 English for the Workplace  
(prerequisite LAN 101 or equivalent)













## FACULTY OF LETTERS

Dean:

*Chris Schabel*

Deputy Dean:

*Alexander Beihammer*

## DEPARTMENT

- Byzantine and Modern Greek Studies
- Classics and Philosophy
- History and Archaeology



Faculty of Letters

## ● ● ● ● Department of Byzantine and Modern Greek

[www.ucy.ac.cy/bmg/en](http://www.ucy.ac.cy/bmg/en)

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## OBJECTIVES OF THE DEPARTMENT

The Department of Byzantine and Modern Greek Studies covers the subjects of Byzantine Philology, Modern Greek Literature, Theory of Literature, Comparative Literature and Linguistics, and offers a single Major in Byzantine and Modern Greek Language and Literature. The Department focuses on both research and teaching. The main areas of research include the following:

- (a) the study of Greek Language and Literature from the early post-Christian era to the present, always within the more general frame of how Greek language and literature evolved through time, starting with the Archaic period and coming up to the period under examination,
- (b) the examination of Greek literary production, within a European as well as a world context,
- (c) the study of Greek language and literature in Cyprus.

The programme of study is designed to provide a scholarly grounding in the areas covered by the Department. It also includes modules in Ancient Greek Philology, Latin Philology, History and Philosophy (from the programmes of study of the other two departments of the Faculty of Letters), that will equip the students with the necessary skills to teach the respective subjects in secondary schools. It is for the same reason that the programmes of study run by the other departments of the Faculty of Letters also include modules in Byzantine Philology, Modern Greek Literature and Linguistics. Apart from providing scholarly knowledge, the programme of study aims at developing the students' critical thinking, as well as broadening their intellectual horizons.

Graduates of our Department are qualified to seek employment in secondary education, research institutes and cultural foundations. Alternatively, they may choose to continue their studies and specialize at postgraduate level.

The Department also offers a Minor in Byzantine and Modern Greek Language and Literature. The Minor Programme includes twelve courses (see Table V).

The Department additionally offers service courses for programmes of study run by other faculties (see Table IV). More specifically, the Department contributes to the programmes of study of the Department of Education (with two courses, i.e. BMG 090 Introduction to Modern Greek Literature and LAS 093 Introduction to Modern Greek Language), and to the B.A. Programme in Journalism, offered by the Department of Social and Political Sciences (with three courses, i.e. BMG 160 Essay Writing, BMG 390 History of Modern Greek Literature and LAS 290 Sociolinguistics).

Free electives in Byzantine Philology, in Modern Greek Literature, in Theory of Literature/ Comparative Literature and in Linguistics have course codes BMG 001-020, BMG 021-050, BMG 051-074 and LAS 075-099, respectively. Apart from elective courses specifically targeted at students of other departments, these students may also alternatively select departmental courses marked as E (for elective).

## STRUCTURE AND ORGANIZATION OF THE PROGRAMME OF STUDY

The B.A. Programme in Byzantine and Modern Greek Language and Literature consists of 45 courses, corresponding to a total of 241 ECTS. For the distribution of courses per subject see Table I. Courses in Byzantine Philology, Modern Greek Literature, Theory of Literature, and Comparative Literature have course codes which start with BMG for (B)yzantine and (M)odern (G)reek Studies, while Linguistics courses have course codes which start with LAS for (La)nguage (S)ciences. Courses are offered at three levels. The course codes for each level are presented next.

- (1) Introductory Courses (BMG 100, BMG 110, BMG 120, BMG 130, BMG 141, BMG 160, BMG 170 and LAS 150). They correspond to 5 ECTS each.
- (2) Courses offering an overview of a topic or of a literary period (BMG 200-399 and LAS 200-299). They correspond to 5 ECTS each.
- (3) Seminars offering an in depth examination of some topic (BMG 400-499). They correspond to 9 ECTS each.

The seventh semester course BMG 435 Overview of Modern Greek Literature corresponds to 8 ECTS.

For the distribution of course codes see Table II. For the distribution of courses per semester see Tables III and IV.

## COMPULSORY COURSES

The programme of study for the B.A. in Byzantine and Modern Greek Language and Literature includes twelve Compulsory Courses (cf. the Descriptions for Compulsory Courses). Ten of these courses are introductory: two courses in Byzantine Philology, three courses in Modern Greek Literature, one course in Literary Theory, one Linguistics course, two courses in Ancient Greek Philology, and one course in Latin Philology. The remaining two compulsory courses include an Essay Writing course and an Overview of Modern Greek Literature. Eleven of the compulsory courses are offered in the first three semesters, as follows. In the first semester: BMG 100 Introduction to Byzantine Literature, BMG 120 Introduction to Modern Greek Literature, BMG 160 Essay Writing, LAS 150 Introduction to Theoretical Linguistics, AEF 101 Introduction to Classical Scholarship and AEF 131 Ancient Greek Prose Composition. In the second semester: BMG 110 Introduction to Greek Paleography, BMG 130 Introduction to the Theory of Literature, BMG 141 Introduction to Modern Greek Metrics and BMG 170 Landmarks in Modern Greek Literature. In the third semester: LAT 195 Latin Prose Composition. Course BMG 435 Overview of Modern Greek Literature is taught in the seventh semester.

## BYZANTINE PHILOLOGY

Apart from the two compulsory courses in Byzantine Philology (BMG 100 and BMG 110), students must attend a course in each one of the three chronological periods for Byzantine texts (see Table II), as well as a seminar in Byzantine Philology. Courses covering more than one chronological period (see General Topics in Byzantine Philology in Table II) can satisfy the distinct period requirement with respect to only one chronological period.

## MODERN GREEK LITERATURE

Apart from the three compulsory introductory courses in Modern Greek Philology (BMG 120, BMG 141 and BMG 170), as well as the Compulsory Overview Course BMG 435, students must attend a course in each one of the seven core areas of Modern Greek Literature (see Table II) and two seminars in Modern Greek Literature. Courses covering more than one core area of Modern Greek Literature (see General Topics in Modern Greek Literature in Table II), can satisfy the above requirement with respect to only one core area.

## THEORY OF LITERATURE - COMPARATIVE LITERATURE

Apart from the compulsory course BMG 130, students must attend one other lecture course in this area.

## LINGUISTICS

Apart from the compulsory course LAS 150 Introduction to Theoretical Linguistics, students must attend three courses from the two areas of Linguistics (see the distinction between Theoretical Linguistics and other branches of Linguistics in Table II).

## ANCIENT GREEK PHILOLOGY

Apart from the compulsory courses AEF 101 and AEF 131, students must take four 200-level Ancient Greek Philology courses from the Department of Classics and Philosophy.

## LATIN PHILOLOGY

Apart from LAT 195 Latin Prose Composition, students must take one 200-level Latin Philology course from the Department of Classics and Philosophy.

## HISTORY

Students must take four History courses from the Department of History and Archaeology, distributed as follows: one course in Ancient Greek History, one course in Byzantine History, one course in Modern or Contemporary Greek History and one 100-level or 200-level option.

## PHILOSOPHY

Students must take one 100-level Philosophy Course and one 200-level Philosophy Course (PHIL 200-299) from the Department of Classics and Philosophy.

## Seminars

From the fifth semester onwards, students must attend one seminar in Byzantine Philology and two seminars in Modern Greek Literature. Prerequisites for seminars include all the compulsory courses (except for BMG 435), as well as at least two courses in Byzantine Philology and Modern Greek Literature, respectively.

## Elective Courses

Students must take three elective courses. In line with the University Regulations for Undergraduate Studies, in the case of three elective courses these must be selected from at least two different faculties of the University. Only one first-level foreign language course can be taken as an elective. The student may take a second-level course in the same foreign language, in which case both levels are credited as electives.

In view of the fact that Archaeology and History of Art play a certain role in the understanding of medieval and modern civilization, students are advised to take as elective courses a course in Byzantine Archaeology and/or a course in Modern or Contemporary Art from those offered by the Department of History and Archaeology.

## Foreign Language

Students must select two courses in a foreign language. Both courses must be in the same foreign language.

## COURSE DESCRIPTIONS

### Compulsory Courses

#### BMG 100 Introduction to Byzantine Literature (5 ECTS)

The course offers an overview of Byzantine Philology, focusing on the main characteristics of Byzantine Literature, as well as on language change from Medieval to Modern Greek. It also familiarizes students with the use of reference works (dictionaries, grammars, text books, etc.). A variety of passages are studied and translated in Modern Greek, while other passages are read in Modern Greek translations. The selected texts cover a wide range of literary genres and stylistic levels from the 1st to the 15th centuries inclusive.

#### BMG 110 Introduction to Greek Paleography (5 ECTS)

The course introduces the history of Greek writing and manuscripts, starting with the appearance of the codex (2nd century A.D.) and up to the development of printing (16th century). It also covers more general issues (materials, scripts, writing techniques and scriptoria, financial and social context, dating). Students practice reading and transcribing manuscripts.

#### BMG 120 Introduction to Modern Greek Philology (5 ECTS)

The course introduces a variety of issues relating to Modern Greek Philology. These include bibliography, history of literature, terminology, literary genres, the literary essay, literary criticism and so on.

**BMG 130 Introduction to the Theory of Literature (5 ECTS)**

The course introduces basic concepts of literary theory. It examines the literary text in relation to such fundamental notions as the author, the reader, and reality (i.e. mimesis), tracing the historical perceptions and developments associated with these concepts. It also explores specific literary theories, such as the psychoanalytic literary criticism, structuralism, post-structuralism, postcolonial theory, deconstruction, cultural studies, the Marxist literary critique, etc. The course draws its material from a variety of theoretical disciplines that include anthropology, psychology, political theory, sociology, linguistics and philosophy. Its main aim is to introduce the students to different methodological approaches and interpretations of literary texts.

**BMG 141 Introduction to Modern Greek Metrics (5 ECTS)**

The course examines Modern Greek traditional metres, as well as the development of free verse.

**BNE 160 Essay Writing (5 ECTS)**

The aim of the course is: a) to familiarize students with academic discourse (structure of texts, argumentation) and b) to cultivate critical thinking as well as the academic use of the Greek language. In the context of the course, essays of important thinkers are closely examined and, at the same time, students have the opportunity to develop their academic essay writing skills.

**BNE 170 Landmarks in Modern Greek Literature (5 ECTS)**

This course constitutes an introduction to Modern Greek Literature. A set of literary works standardly taken to be the milestones of Modern Greek literature are firstly presented within their historical contexts, and are then critically discussed.

**BMG 435 Overview of Modern Greek Literature (5 ECTS)**

The course aims at familiarizing final year students with the most important texts of Modern Greek Literature, from the early post-Christian era to the present. The course syllabus includes 62 texts of Modern Greek Literature, some of which are taught in class during term time. The list of texts can be obtained from the academic advisors/tutors and the Departmental Secretary.

**LAS 150 Introduction to Theoretical Linguistics (5 ECTS)**

The course begins with challenging traditional assumptions about (the Greek) language. The language myths discussed in the course include misconceptions about language change, about the relationship between Ancient Greek and Modern Greek, as well as about the concept of language errors. The course goes on to present the basic principles of Modern Linguistics, such as linguistic equality, the precedence of speech over the written language and the meaning-form distinction. It introduces key distinctions of modern Linguistics, such as the synchrony-diachrony distinction, the description-prescription distinction and the langue-parole distinction. It examines whether there are universal characteristics of languages, as well as what it

involves to have native knowledge of a language. The course focuses on the study of language as a system. It presents the four branches of Theoretical Linguistics, namely Phonology, Morphology, Syntax and Semantics, giving emphasis on data description and the construction of explanatory models in linguistic theory. Students are guided in developing problem-solving skills in each one of the core areas of Theoretical Linguistics.



**TABLE I: PROGRAMME OF STUDY FOR THE B.A. IN BYZANTINE  
AND MODERN GREEK LANGUAGE AND LITERATURE**

	Number of Courses	ECTS		Number of Courses	ECTS
Essay Writing	1 (C)	5	History	4 (4L)	20
Byzantine Philology	6 (2C+3L+1S)	34	Philosophy	2 (2L)	10
Modern Greek Literature	13 (4C+7L+2S)	76	Elective Courses	3 (3L)	15
Theory of Literature and Comparative Literature	2 (1C+1L)	10	Foreign Language	2 (2L)	10
Linguistics	4 (1C+3L)	20	<b>TOTAL</b>	<b>45</b>	<b>241</b>
Ancient Greek Philology	6 (2C+4L)	31	<i>C = Compulsory Course</i>		
Latin Philology	2(1C+1L)	10	<i>L = Lecture Course</i>		
			<i>S = Seminar</i>		

**TABLE II: DISTRIBUTION OF COURSE CODES**

#### **INTRODUCTORY COURSES (5 ECTS each)**

BMG 100 Introduction to Byzantine Literature  
 BMG 110 Introduction to Greek Paleography  
 BMG 120 Introduction to Modern Greek Philology  
 BMG 130 Introduction to the Theory of Literature  
 BMG 141 Introduction to Modern Greek Metrics  
 BMG 160 Essay Writing  
 BMG 170 Landmarks in Modern Greek Literature  
 LAS 150 Introduction to Theoretical Linguistics

#### **SPECIAL COURSE FOR FOURTH-YEAR STUDENTS (8 ECTS each)**

BMG 435 Overview of Modern Greek Literature

#### **LECTURE COURSES IN BYZANTINE PHILOLOGY (5 ECTS each)**

BMG 200-214 Early Byzantine Period (300-700 A.D.)  
 BMG 215-229 Middle Byzantine Period (700-1200 A.D.)  
 BMG 300-314 Late Byzantine Period (1200-1500 A.D.)  
 BMG 315-329 General Topics

#### **LECTURE COURSES IN MODERN GREEK LITERATURE (5 ECTS each)**

BMG 230-245 Medieval / Renaissance Literature, Folk  
Songs  
 BMG 246-261 From the Fall of Crete up to 1821  
 BMG 262-277 Heptanese Peak Literature

BMG 278-293 Prose of the 19th and the beginning of the  
20th centuries

BMG 330-345 Poetry of the 19th and the beginning of the  
20th centuries

BMG 346-361 Modern Prose

BMG 362-377 Modern Poetry

BMG 378-393 General Topics

#### **LECTURE COURSES IN THEORY OF LITERATURE AND COMPARATIVE LITERATURE (5 ECTS each)**

BMG 294-299

BMG 394-399

#### **LECTURE COURSES IN LINGUISTICS (5 ECTS each)**

LAS 200-259 Theoretical Linguistics

LAS 260-299 Other branches of Linguistics

#### **PHILOLOGY SEMINARS (9 ECTS each)**

BMG 400-434 Byzantine Philology

BMG 436-499 Modern Greek Literature, Theory of  
Literature, Comparative Literature

#### **ELECTIVE COURSES (5 ECTS each)**

BMG 001-020 Byzantine Philology

BMG 021-050 Modern Greek Literature

BMG 051-074 Theory of Literature and Comparative  
Literature

LAS 075-099 Linguistics

**TABLE III: PROGRAMME OF STUDY FOR THE FIRST FOUR SEMESTERS**

		ECTS			ECTS
<b>1st Semester</b>			<b>3rd Semester</b>		
BMG 100	Introduction to Byzantine Literature	5	BMG 2../3..	Course in Byzantine Philology	5
BMG 120	Introduction to Modern Greek Literature	5	BMG 2../3..	Course in Modern Greek Literature	5
ENG 150	Introduction to Theoretical Linguistics	5	LAT 195	Latin Prose Composition	5
ENG 160	Essay Writing	5	HIS	Course in Ancient Greek or Byzantine History	5
AEF 101	Introduction to Classical Scholarship	5	HIS	Course in Modern or Contemporary Greek History	5
AEF 131	Ancient Greek Prose Composition	6	LAN	Foreign Language Course	5
<b>TOTAL</b>		<b>31</b>	<b>TOTAL</b>		<b>30</b>
<b>2nd Semester</b>			<b>4th Semester</b>		
BMG 110	Introduction to Greek Palaeography	5	BMG 2../3..	Course in Byzantine Philology	5
BMG 130	Introduction to the Theory of Literature	5	BMG 2../3..	Course in Modern Greek Literature	5
BMG 141	Introduction to Modern Greek Metrics	5	AEF 200-256	Course in Ancient Greek Philology	5
BMG 170	Landmarks in Modern Greek Literature	5	LAT 267-299	Course in Latin Philosophy	5
AEF 200-256	Course in Ancient Greek Philology	5	PHIL 1	Introductory Philosophy Course	5
HIS	Course in Ancient Greek or Byzantine History	5	LAN	Foreign Language Course	5
<b>TOTAL</b>		<b>30</b>	<b>TOTAL</b>		<b>30</b>
			<b>GRAND TOTAL</b>		<b>121</b>

**TABLE IV: SET OF COURSES FOR THE 3rd AND 4th YEAR OF THE B.A. PROGRAMME IN BYZANTINE AND MODERN GREEK LANGUAGE AND LITERATURE**

BMG 200-229 and BMG 300-329:	1 Course in Byzantine Philology
BMG 230-293 and BMG 330-393:	5 Courses in Modern Greek Literature
BMG 294-299 and BMG 394-399:	1 Course in the Theory of Literature/Comparative Literature
BMG 400-434:	1 Seminar in Byzantine Philology
BMG 436-499:	2 Seminars in Modern Greek Literature
BMG 435	Overview of Modern Greek Literature (in the 7th semester)
LAS 200-299:	3 Linguistics Courses
AEF 200-299:	2 Courses in Ancient Greek Philology
HIS 1.-2.:	1 History Course
PHIL 200-294:	1 Philosophy Course
3 Elective Courses	

- Regarding the restrictions relevant to the selection of courses, see Structure and Organization of the programme of study.
- It is recommended that students select one seminar per semester.

**TABLE V: MINOR PROGRAMME OF STUDY IN BYZANTINE  
AND MODERN GREEK LANGUAGE AND LITERATURE**

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BMG 100 Introduction to Byzantine Literature  
 BMG 120 Introduction to Modern Greek Literature  
 BMG 130 Introduction to the Theory of Literature  
 BMG 170 Landmarks in Modern Greek Literature  
 LAS 150 Introduction to Theoretical Linguistics

**2 Courses of Byzantine Philology**

(without the restriction of one course per core area of Byzantine Literature)

**3 Courses of Modern Greek Literature**

(without the restriction of one course per core area of Modern Greek Literature)

**1 Linguistics Course**

**1 option from the remaining Compulsory Courses or Lecture Courses offered by the Department**

(i.e. a course in Byzantine Philology, Modern Greek Literature, Theory of Literature, Comparative Literature or Linguistics)

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**TABLE VI: SERVICE COURSES TO OTHER DEPARTMENTS**

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**Courses for the Department of Education  
(5 ECTS each)**

BMG 090 Introduction to Modern Greek Literature  
 LAS 093 Introduction to Modern Greek Language

**Courses for the Department of Social and Political  
Sciences (B.A. in Journalism)**

BMG 160 Essay Writing  
 BMG 390 History of Modern Greek Literature  
 LAS 290 Sociolinguistics

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## Faculty of Letters

# ● ● ● ● Department of Classics and Philosophy

[www.ucy.ac.cy/cph/en](http://www.ucy.ac.cy/cph/en)

### **CHAIRPERSON**

Antonios Tsakmakis

### **VICE-CHAIRPERSON**

Anna Panayotou–Triantaphyllopoulou

### **PROFESSOR**

Anna Panayotou–Triantaphyllopoulou

### **ASSOCIATE PROFESSORS**

Demokritos Kaltsas

Dimitris Portides

Antonios Tsakmakis

Spyridon Tzounakas

Georgios Xenis

### **ASSISTANT PROFESSORS**

Maria Ypsilanti

### **LECTURERS**

Christos Kyriacou

Vasileios Livanios

## OBJECTIVES

The Department aims at generating and conveying knowledge in the fields of Classical Antiquity (both Greek and Latin) and Philosophy.

The Department offers two programmes of study leading to the acquisition of two respective degrees:

- a) Degree in Classics
- b) Degree in Philosophy

The duration of studies is eight semesters. Programmes of study include compulsory courses in the essential areas of study, elective courses and foreign language courses. Graduates may pursue careers in public or private education, in cultural administration, in the public sector, or in the media. They may also undertake postgraduate study with a view to further specialization.

Apart from the above two programmes of study, the Department offers postgraduate courses in Classics, as well as two Minors in Ancient Greek Philology and in Philosophy. The Department also offers introductory and specialization courses for students in other departments of the Faculty of Letters, as well as for students in other faculties.

Research and international scholarly cooperation are highly prioritized at the Department of Classics and Philosophy. The Department's connections with universities and research centres abroad contribute to its international reputation and promote mutual international exchange of students and academic staff.

## PROGRAMME IN CLASSICS

The Programme in Classics aims at providing students with a sound philological background, which will allow them to undertake advanced studies in Classics or to pursue careers in Education and other sectors. More specifically, the Programme's objectives are: to provide students with an excellent knowledge of Greek and Latin; to educate them on the methodology of classical scholarship; to further their acquaintance with a large corpus of classical texts, as well as with the history of Greek and Latin literature and language. The programme which includes courses on Byzantine and Modern Greek literature, aims at providing students with the necessary knowledge of History and Linguistics and promoting interdisciplinary study.

## STRUCTURE OF THE PROGRAMME IN CLASSICS

The Programme in Classics consists of 44 courses (242 ECTS). (One ECTS corresponds to 25-30 hours of study by the student) More specifically:

- Thirteen Courses in Ancient Greek Literature
- Eight Courses in Latin Literature
- One Course in Byzantine Literature (BMG 100) offered by the Department of Byzantine and Modern Greek Studies (BMG)
- Six Courses in Modern Greek Literature (from the courses offered by BMG)
- Four Courses in Linguistics (including LAS 150)
- Four Courses in History (from the courses offered by the Department of History and Archaeology)
- Two Courses in Philosophy
- Three Elective Courses
- Three Courses in a Foreign Language (from the courses offered by the Language Centre)

## PROGRAMME IN PHILOSOPHY

The programme in Philosophy aims at providing the philosophic education required for the students to become acquainted with the wide variety of basic philosophical notions and principles, as well as to prepare them for advanced study in Philosophy. Therefore, special emphasis is placed on the study of the history of philosophy (especially Greek philosophy), but there is also an emphasis on particular areas of modern and contemporary philosophy (ethics and political philosophy, philosophy of science, philosophy of mind) in order to promote critical thinking and further broaden the students' scholarly perspectives.

Furthermore, the programme includes a selection of 'philological' courses from all departments of the Faculty of Letters, which ensures that graduates develop a broad academic background enabling them to work in secondary education.

## STRUCTURE OF THE PROGRAMME IN PHILOSOPHY

The programme in Philosophy consists of 44 courses (243 ECTS). More specifically:

- Eighteen Courses in Philosophy
- Six Courses in Ancient Greek Literature
- Three Courses in Latin Literature
- Three Courses in History (from the courses offered by the Department of History and Archaeology)
- One Course in Byzantine Literature (BMG 100) from those offered by the Department of Byzantine and Modern Greek Studies (BMG)
- Four Courses in Modern Greek Literature (from the courses offered by BMG)
- One Course in Literary Theory (from the courses offered by BMG)
- Three Courses in a Foreign Language (from the courses offered by the Language Centre)
- Three Elective Courses
- One Course in Psychology (from the courses offered by the Department of Psychology)
- One Course in Sociology (from the courses offered by the Department of Social and Political Sciences)



## COURSE DESCRIPTIONS

### Classical Studies

#### AEF 101 Introduction to Classical Scholarship (5 ECTS)

Introduction to the object of study, methodology and history of classical scholarship. Special attention is given to the following areas:

- History of ancient literature. Periods, genres, representatives. Survivals and influence.
- History of the transmission and criticism of ancient texts.
- Principles and methods of literary criticism from Antiquity to the modern era.
- Research tools: dictionaries, handbooks on grammar and syntax, bibliographical resources, electronic sources, etc.

#### AEF 103 Methodology of Classical Philology (5 ECTS)

Introduction to philological study and methodology with emphasis on practical exercise. Special emphasis on issues such as:

- Textual criticism and critical edition
- Papyrology and Paleography
- Analysis and interpretation of the texts
- Kinds of scholarly publications
- Clues on how to do research and write scholarly essays

#### AEF 131 Ancient Greek Prose Composition (6 ECTS)

Reading of selected passages from the work of Attic prose writers. The course focuses on topics such as:

- Language and style of the texts
- Textual criticism
- Translation techniques

A tutorial is offered as an integral part of the course.

#### AEF 132 Texts of Ancient Philosophy (5 ECTS)

In this course, texts of classical Greek philosophy, mainly Plato (secondarily Aristotle), are read and subjected to philological analysis and interpretation. Our main goal is to have students familiarize themselves with the philosopher's language and style; to this end we study in detail his choices in grammar, syntax and vocabulary. Much stress is further laid on techniques of translation into Modern Greek. A parallel goal is to introduce the students to the philosophical, historical and literary problems concerning Plato.

The text studied can be either one of the shorter dialogues in its entirety or selections from the whole oeuvre.

#### AEF 202 Introduction to Ancient Greek Rhetoric (5 ECTS)

Introductory overview of the theory and practice of ancient Greek rhetoric, with emphasis on Attic oratory. Characteristic samples, demonstrative of the main structural and stylistic features of rhetorical speech, are examined.

- Principles and evolution of rhetoric in Antiquity

- Rhetorical treatises, elements of ancient rhetoric theory
- Attic oratory: principal representatives and their work.
- Analysis of selected speeches and passages with emphasis on matters of rhetorical style and technique.

#### AEF 210 Homer (5 ECTS)

Aim of the course is an introduction to Homer and to the problems of Homeric scholarship; also, familiarization with the reading and the study of the Homeric text. Characteristic samples from the Homeric epics are analysed, and the following topics are discussed:

- Definition, description and evaluation of the Archaic period of ancient Greek literature.
- Historical, socio-political and literary conditions of the Archaic period. Epic - heroic epic.
- The poet
- History of the transmission of the Homeric text
- The language of the Homeric epic – elements of metrics
- The Homeric Problem

#### AEF 214 Lyric Poetry (5 ECTS)

Introductory overview of Archaic lyric poetry. Issues discussed include: lyric genres, ancient and modern classifications; main representatives; poetry and society in Archaic Greece; festivals, games, symposium; epic tradition, popular and personal poetry; music and dance; history of the text of lyric poets; language of the poems. The basic metres of the poems are examined, and characteristic texts are commented upon in detail (elegy, iamb, melic poetry, older choral lyric). There is also an indicative discussion and criticism of various modern translation approaches.

#### AEF 217 Introduction to Ancient Drama (5 ECTS)

Introductory topics on the study of Ancient Greek drama. More specifically, the course focuses on:

- The birth of ancient Greek drama as evidenced by literary, historical and archaeological sources
- Dramatic festivals
- The theatre and the performance
- Dramatic genres and their evolution
- Major representatives and their work

#### AEF 243 Ancient Greek Historiography (5 ECTS)

Introductory overview of classical historiography with emphasis on the work of its three chief representatives. Other issues, like the birth of Greek historical thought, the origins of historiography, the first representatives and the main features of their work are discussed. Selected passages from the work of Herodotus, Thucydides and Xenophon are analysed (linguistic study, literary and historical commentary, observations on narrative techniques and historical thought) and the relation among the three writers, as well as the evolution of the genre, are also discussed.

### AGL 263 Historical Linguistics I (5 ECTS)

Overview of undeciphered scripts of the East Mediterranean with regard to pre-Hellenic linguistic material. Examination of the dialects of the Greek-speaking world during the second and first millennium B.C. and the corresponding syllabic scripts or alphabets.

### AGL 369 Historical Linguistics II (5 ECTS)

Examination of the historical and political conditions that allowed the formation and expansion of Koine in the Greek-speaking world during the Hellenistic and Roman periods. Description (Phonetics, Phonology, Morphology, Semantics, Syntax) of this form. Atticism. Written and oral code during the Byzantine era. The formation of modern Greek dialects.

### AGL 445-470 Linguistics Seminar (10 ECTS)

#### *(e.g. AGL 465 Morphology of Ancient Greek Language)*

Forms and structure of different categories of words in Ancient Greek (articles, pronouns, nouns, adjectives, verbs, etc.). Inflection, word-formation, paradigms, derivation and compounds, stress changes, etc.

### LAT 195 Latin Prose Composition (6 ECTS)

Linguistic, syntactic and stylistic exercises on Latin prose, based on selected passages of Latin literature. Parallel examination of certain poetic texts.

### LAT 272 Latin Oratory (Cicero) (5 ECTS)

Brief introduction to classical oratory, oratory as a literary genre, kinds and structure of rhetorical speech. Oratory in Rome, its evolution and principal representatives. The political and literary quality of Cicero and his historical and political milieu. Selected passages from one or more speeches of Cicero are analysed with special emphasis on rhetorical and stylistic issues of the text, the structure and effectiveness of argumentation, the writer's political thought and the reconstruction of various aspects of contemporary political and social life.

### LAT 274 Latin Prose (5 ECTS)

Analysis of a text, preferably from Roman Historiography or Biography. Main features of Roman Historiography and Biography, the interrelation of these two literary genres, their origins and evolution. Introduction to the writer under discussion and his era. Philological and historical interpretation of a selected work, where issues of style, narrative techniques, objectivity and impartiality, political interests and historical thought are principally investigated.

### LAT 276 Vergil, Aeneid (5 ECTS)

The course offers a systematic introduction to Roman epic and, more specifically, to the Aeneid. The structure and content of the lectures aim at:

a) Familiarizing students with the classical Latin language.

b) Offering a detailed introduction to certain critical, historical and cultural elements that underline the composition of Latin epic. Issues discussed include:

- the correlation of myth, history, and politics in Latin epic
- the association of a poetical and metapoetical approach to the text with narratology, structure and content, and also with the political and cultural contexts of the era.
- Vergil's literary models

## Philosophy

### PHIL 101 Introduction to Philosophy (5 ECTS)

- Term, beginning and definition of Philosophy
- The relation of Philosophy to art, religion and science
- Ontology: Being, non-Being, becoming. The four causes of Being. The ten categories of being in Aristotle. Substance and accident.
- Anthropology: body and soul. Language, thought and reality. Freedom and necessity. The substance of man and the conception of consciousness.
- Epistemology: Logical principles. The cognitive powers of man and their validity. The problem of truth. Rationalism, Empiricism and Positivism. A priori and posteriori knowledge.
- Ethics: The good and the bad. Virtue and happiness. The conception of the moral consciousness. Moral values. Principles of morality. The meaning of life.

### PHIL 102 Ancient Greek Philosophy (5 ECTS)

The aim of the course is to acquaint students with philosophical language and the most important stages of ancient Greek philosophical thought: Presocratics, the Sophists, Plato, Aristotle, Hellenistic philosophy, Neo-Platonism. Our primary target is to explore the different models and standards of rationality, that are raised in both theoretical and practical quests of Greek philosophy. Emphasis is placed on the original texts and their interpretation, avoiding the repetition of secondary bibliography.

### PHIL 103 Modern European Philosophy (5 ECTS)

Students are introduced to some of the major thinkers in the tradition of modern European Philosophy, including Bacon, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, Nietzsche, Husserl. Study of texts by these thinkers will enable students to gain a critical understanding of some of the main issues in their philosophies. Students will develop an awareness of the major philosophical problems associated with the notion of modernity.

### PHIL 104 Logic (5 ECTS)

Introduction to propositional logic, and the basic concepts (attributes of sentences, consistency of sets of sentences, validity of inferences) and distinctions of Logic. Truth-functional logic will be developed and the structure of

compound propositions and arguments will be analysed. The course will focus on the translation of natural language to propositional language and the use of semantic trees for determining truth-functional validity, consistency, etc.

#### **PHIL 176 Applied Ethics (5 ECTS)**

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The aim of this series of lectures is to show that moral philosophy in conjunction with meta-ethics can contribute to a better understanding and even the solution of practical problems, for instance, those of minorities, starvation, the destruction of the environment, animal rights, organ transplantations and genetic engineering; or even issues such as death, euthanasia, abortion, infanticide, equality between the two sexes, capital punishment, war, nuclear weapons.



## CONTENT OF PROGRAMME IN CLASSICS (Indicative)

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### A. BACKGROUND COURSES

1. Introduction to Classical Scholarship
2. Ancient Greek and Latin Language (reading courses)
3. Ancient Greek and Latin Metre
4. Papyrology
5. Palaeography and Textual Criticism
6. History of the Greek Language
7. History of Latin Literature
8. Latin Language and Grammar
9. General Linguistics

### B. SUBJECT AREAS

#### 1. Ancient Greek Literature

Epic, archaic lyric, drama, historiography, philosophy, rhetoric, science, Hellenistic poetry, literary theory, novel, essay writing, Second Sophistic, poetry in Late Antiquity.

#### 2. Latin Literature

Epic, lyric, drama, satire, historiography, philosophy, rhetoric, novel, medieval Latin.

#### 3. Linguistics

Indo-European languages, the Pre-Hellenic linguistic substratum, Linear B and Mycenaean Greek, Cypriot syllabary, alphabets and Greek dialects of the 1st millennium B.C., the Koine during the Hellenistic and Roman periods, Atticism, Greek in Late Antiquity.

## ANALYTICAL PROGRAMME OF STUDIES IN CLASSICS (Major)

	ECTS		ECTS
<b>1st Semester</b>		<b>5th Semester</b>	
AEF 101 Introduction to Classical Scholarship	5	AEF XXX Ancient Greek Literature Course	5
AEF 131 Ancient Greek Prose Composition	6	LAN III Foreign Language from Language Centre	5
LAT 195 Latin Prose Composition	6	LAT XXX Latin Literature Course	5
BMG 120 Introduction to Modern Greek Literature	5	AGL 4... Seminar	10
BMG 100 Introduction to Byzantine Literature	5	BMG XXX Modern Greek Literature	5
LAS 150 Introduction to Theoretical Linguistics	5	HIS Roman History	5
<b>TOTAL</b>	<b>32</b>	<b>TOTAL</b>	<b>35</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
AEF 132 Texts of Ancient Philosophy	5	AEF/LAT Seminar	10
AEF 202 Introduction to Ancient Greek Rhetoric	5	AEF XXX Ancient Greek Literature Course	5
AEF 217 Introduction to Ancient Drama	5	BMG XXX Modern Greek Literature	5
LAT 274 Latin Prose	5	LAT XXX Latin Literature Course	5
HIS 144 Introduction to Ancient History	5	HIS History Course of optional subject	5
LAN I Foreign Language, from Language Centre	5	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>30</b>	<b>7th Semester</b>	
<b>3rd Semester</b>		BMG XXX Modern Greek Literature	5
AEF 103 Methodology of Classical Philology	5	LAT/AEF Seminar	10
AEF 210 Homer	5	PHIL XXX Philosophy Course	5
AEF 243 Ancient Greek Historiography	5	Free Elective Course	5
LAT 272 Latin Oratory (Cicero)	5	<b>TOTAL</b>	<b>25</b>
AGL 263 Historical Linguistics I	5	<b>8th Semester</b>	
LAN II Foreign Language, from Language Centre	5	AEF/LAT Seminar	10
<b>TOTAL</b>	<b>30</b>	LAT XXX Latin Literature Course	5
<b>4th Semester</b>		Free Elective Course	5
AEF 214 Lyric Poetry	5	Free Elective Course	5
LAT 276 Vergil, Aeneid	5	BMG XXX Modern Greek Literature	5
PHIL XXX Philosophy Course	5	<b>TOTAL</b>	<b>30</b>
AGL 369 Historical Linguistics II	5	<b>GRAND TOTAL</b>	<b>242</b>
HIS/ARC Ancient History or Classical Archaeology Course	5		
BMG XXX Modern Greek Literature	5		
<b>TOTAL</b>	<b>30</b>		

### Notes:

1. The distribution of courses for the 5th to 8th semester is indicative, on condition that students take one seminar per semester.
2. When the course number is not specified, students may choose from among the courses offered in the Department of Classics and Philosophy. Courses in Modern Greek Literature should not be chosen from among those with code BMG 0..
3. Students must attend two 300-level courses in Ancient Greek and two 300-level courses in Latin.
4. No student may attend a seminar course without having already successfully completed a 300-level course in the same subject.
5. The three seminars in the Ancient Languages can be distributed either as two in Ancient Greek Literature with one in Latin Literature or as one in Ancient Greek Literature with two in Latin Literature.
6. Free elective courses may not be chosen from the Department of Classics and Philosophy.

### Codes:

AEF = Ancient Greek Literature  
 LAT = Latin Literature  
 LAN = Foreign Language  
 AGL = Historical Linguistics  
 PHIL = Philosophy  
 HIS = History  
 ARC = Archaeology  
 BMG = Byzantine and Modern Greek Studies  
 LAS = Language Sciences

### A. INTRODUCTORY COURSES

1. AEF 101 Introduction to Classical Scholarship
2. AEF 131 Ancient Greek Prose Composition
3. LAT 195 Latin Prose Composition
4. AGL 263 Historical Linguistics I

**TOTAL: 16 ECTS**

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*Note:*

*Courses AEF 101 and AEF 131 are prerequisites to the main structure courses (B1-8). Course AGL 263 can be replaced with course LAT 195 as prerequisite for one of the courses LAT 270-299: Latin Literature (see C below).*

### B. MAIN STRUCTURE COURSES

**Five courses in Ancient Greek Literature from different subject areas:**

1. AEF 206-210 Archaic Epic
2. AEF 211-216 Archaic Lyric Poetry
3. AEF 217-230 Drama
4. AEF 231-234 Hellenistic Poetry
5. AEF 235-240 Philosophy
6. AEF 243-247 Historiography
7. AEF 248-251 Rhetoric
8. AEF 241-242, 252-253, 254-256 (other fields)

**One of the five courses can be selected from:**

9. General Courses in Classical Civilization
  - AEF 500 Introduction to Ancient Greek Literature
  - AEF 501-510 Religion and Mythology
  - AEF 511-529 Topics in Ancient Greek Literature
  - AEF 530-539 Public and Private Life
  - AEF 540-549 Classical Antiquity: Survivals
  - LAT 580-599 Topics in Latin Literature

**TOTAL: 25 ECTS**

### C. GENERAL COURSES

1. Introduction to Ancient History (from the Department of History and Archaeology)
2. One course from the following categories:
  - AEF 200-203 History of Ancient Greek Literature
  - AEF 204-205 Translation/Greek Literature in Translation
  - LAT 267-269 History of Latin Literature
  - LAT 270-299 Latin Literature
  - AGL 560-569 Topics in Greek Linguistics
  - Main Structure courses (B 1-8, in a subject area from which no other course has been chosen)
  - General courses of Classical Civilization (B 9, in an area from which no other course has been chosen)
  - Prehistoric or Classical Archaeology (offered by the Department of History and Archaeology)
  - History of Ancient Greek Political Thought

**TOTAL: 10 ECTS**



## ANALYTICAL PROGRAMME IN PHILOSOPHY (Major)

	ECTS		ECTS
<b>1st Semester</b>		<b>5th Semester</b>	
PHIL 101 Introduction to Philosophy	5	PHIL 3.. Systematic Philosophy Course	5
PHIL 102 Ancient Greek Philosophy	5	PHIL 4.. Seminar	10
PHIL 176 Applied Ethics	5	AEF 200-259 Ancient Greek Literature Course	5
AEF 101 Introduction to Classical Scholarship	5	LAT 267-299 Latin Literature Course	5
AEF 131 Ancient Greek Prose Composition	6	HIS XXX History Course	5
BMG 100 Introduction to Byzantine Literature	5	BMG XXX Modern Greek Literature	5
<b>TOTAL</b>	<b>31</b>	<b>TOTAL</b>	<b>35</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
PHIL 103 Modern European Philosophy	5	PHIL 3.. Systematic Philosophy Course	5
PHIL 104 Logic	5	PHIL 4.. Seminar	10
LAT 195 Latin Prose Composition	6	AEF 200-259 Ancient Greek Literature Course	5
HIS 144 Introduction to Ancient History	5	Free Elective Course	5
AEF 200-259 Ancient Greek Literature Course	5	<b>TOTAL</b>	<b>25</b>
LAN I Foreign Language I, from Language Centre	5	<b>7th Semester</b>	
<b>TOTAL</b>	<b>31</b>	PHIL 3.. Systematic Philosophy Course	5
<b>3rd Semester</b>		PHIL 4.. Seminar	10
PHIL 200-299 History of Philosophy	5	BMG XXX Modern Greek Literature	5
PHIL 200-299 History of Philosophy	5	Free Elective Course	5
BMG 120 Introduction to Modern Greek Literature	5	SPS XXX Sociology Course	6
HIS 181 Introduction to Modern European History (1789-1918)	5	<b>TOTAL</b>	<b>31</b>
LAT 267-299 Latin Literature Course	5	<b>8th Semester</b>	
LAN II Foreign Language, from Language Centre	5	PHIL 3.. Systematic Philosophy Course	5
<b>TOTAL</b>	<b>30</b>	PHIL 4.. Seminar	10
<b>4th Semester</b>		BMG XXX Modern Greek Literature	5
PHIL 200-299 History of Philosophy	5	Free Elective Course	5
PHIL 200-299 History of Philosophy	5	PSY XXX Psychology Course	5
PHIL 3.. Systematic Philosophy Course	5	<b>TOTAL</b>	<b>30</b>
BMG 130 Introduction to the Theory of Literature	5	<b>GRAND TOTAL</b>	<b>243</b>
AEF 200-259 Ancient Greek Literature Course	5		
LAN III Foreign Language, from Language Centre	5		
<b>TOTAL</b>	<b>30</b>		

### Notes:

1. Upon permission of the academic advisors, courses AEF 200-259 and LAT 267-299 can be replaced with 300-level courses.
2. The distribution of courses for the 5th - 8th semesters is merely indicative.
3. When the course number is not specified, students may choose from among the courses offered in the Department of Classics and Philosophy. Courses in Modern Greek Literature should not be chosen from among those with code BMG 0..
4. Free Elective Courses may not be chosen from the Department of Classics and Philosophy)
5. For the subject areas of Philosophy courses see p. 159.

### Codes:

AEF = Ancient Greek Literature  
 LAT = Latin Literature  
 LAN = Foreign Language  
 PHIL = Philosophy  
 HIS = History  
 SPS = Social and Political Sciences  
 BMG = Byzantine and Modern Greek Studies  
 PSY = Psychology

## CONTENT OF PROGRAMME IN PHILOSOPHY

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### A. BACKGROUND COURSES (5 ECTS each)

PHIL 101 Introduction to Philosophy  
PHIL 102 Ancient Greek Philosophy  
PHIL 103 Modern European Philosophy  
PHIL 104 Logic  
PHIL 176 Applied Ethics

### B. HISTORY OF PHILOSOPHY (5 ECTS each)

PHIL 200-239 Ancient Greek Philosophy  
PHIL 240-244 Medieval Philosophy  
PHIL 245-249 Byzantine and Modern Greek Philosophy  
PHIL 250-269 Modern European Philosophy  
PHIL 270-294 Contemporary Philosophy

### C. SYSTEMATIC PHILOSOPHY (5 ECTS each)

PHIL 300-309 Ontology - Metaphysics  
PHIL 310-324 Ethics  
PHIL 325-339 Political and Social Philosophy  
PHIL 340-349 Theory of Knowledge  
PHIL 350-354 Aesthetics and Philosophy of Art  
PHIL 355-359 Logic  
PHIL 360-364 Epistemology

PHIL 365-369 Analytical Philosophy  
PHIL 370-374 Philosophy of Language  
PHIL 375-379 Philosophical Anthropology  
PHIL 380-384 Philosophical Hermeneutics  
PHIL 385-389 Philosophy of Law  
PHIL 390-394 Philosophy of History

### D. SEMINARS (10 ECTS each)

PHIL 400-409 Ontology - Metaphysics  
PHIL 410-424 Ethics  
PHIL 425-439 Political and Social Philosophy  
PHIL 440-449 Theory of Knowledge  
PHIL 450-454 Aesthetics and Philosophy of Art  
PHIL 455-459 Logic  
PHIL 460-464 Epistemology  
PHIL 465-469 Analytical Philosophy  
PHIL 470-474 Philosophy of Language  
PHIL 475-479 Philosophical Anthropology  
PHIL 480-484 Philosophical Hermeneutics  
PHIL 485-489 Philosophy of Law  
PHIL 490-494 Philosophy of History

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#### Notes:

1. Successful completion of 4 200 level courses from at least 3 different areas is necessary.
2. Successful completion of 5 300 level courses from 5 different areas is necessary.
3. Successful completion of 4 seminars from at least 3 different areas is necessary.

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## PROGRAMME IN PHILOSOPHY (Minor)

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### A. Four Compulsory Basic Structure Courses (20 ECTS)

PHIL 101 Introduction to Philosophy  
PHIL 102 Ancient Greek Philosophy  
PHIL 103 Modern European Philosophy  
PHIL 104 Logic

### B. Two Courses from different subject areas in History of Philosophy (10 ECTS)

PHIL 200-299

### C. Three Courses from different subject areas in Systematic Philosophy (15 ECTS)

PHIL 300-399

### D. One Seminar (10 ECTS)

PHIL 400-454

**TOTAL: 55 ECTS**



Faculty of Letters

## ● ● ● ● Department of History and Archaeology

[www.ucy.ac.cy/hisarch/en](http://www.ucy.ac.cy/hisarch/en)

### **CHAIRPERSON**

Petros Papapolyviou

### **VICE-CHAIRPERSON**

Maria Parani

### **PROFESSORS**

Alexander Beihammer

Maria Iacovou

Vasiliki Kassianidou

Theodoros Mavrogiannis

Chris Schabel

### **ASSOCIATE PROFESSORS**

Stella Demesticha

Maria Kantirea

Georghios Kazamias

Ourania Kouka

Aggel Nicolaou-Konnari

Petros Papapolyviou

Georghios Papasavvas

Maria Parani

### **ASSISTANT PROFESSORS**

Michalis Olympios

Athanasios Vionis

### **LECTURERS**

Anna-Anastasia Constantinidou

## OBJECTIVES OF THE DEPARTMENT

The Department of History and Archaeology works towards the promotion of knowledge and research in the disciplines of History and Archaeology. Its chief activities are teaching (both at undergraduate and postgraduate levels) and research. Research is carried out at postgraduate and faculty level. In the field of Archaeology, the Archaeological Research Unit (A.R.U.) is also particularly active. The A.R.U. was founded in 1992 and it was integrated into the Department of History and Archaeology in 1996. The A.R.U. covers all the archaeological activity of the Department that concerns Cyprus and it is in charge of teaching all the relevant postgraduate courses. It offers a full study programme for the undergraduates of the Department, as well as elective courses for students of other departments. These include courses taught by members of the A.R.U. that cover all aspects of Cypriot Archaeology, examined in relation to the cultures of neighbouring regions.

The Department offers a joint degree in History and Archaeology, with a specialization either in History or Archaeology. The degree allows our graduates to seek employment in a large number of sectors, bodies and institutions, such as secondary education, the archaeological service, the diplomatic service, research centres, archives, cultural foundations, museums, galleries, etc.

The Department's programme of studies aims at the scholarly preparation of the students in the two disciplines, and it functions in close partnership with the other two departments of the Faculty of Letters, as well as with departments of other faculties of the University. This offers students of the Department of History and Archaeology the opportunity to acquire the knowledge and skills necessary to teach in secondary education, if they so desire. The programme also prepares students to pursue studies at the postgraduate level. Thus, students who wish to follow a career in either History or Archaeology acquire all the practical training they are likely to need during the course of their studies.

## STRUCTURE OF THE PROGRAMME OF STUDIES

At the beginning of their studies, students follow a common syllabus for the first three semesters. Upon completion of the third semester, students choose to specialize in either History or Archaeology. Consequently, the degrees offered by the Department are (a) Degree of the Department of History and Archaeology, with specialization in History, or (b) Degree of the Department of History and Archaeology, with a specialization in Archaeology.

100-Level Courses are introductory courses. They are compulsory for the students of the Department; they are also open to students of other departments of the University as elective courses.

200-Level Courses have as prerequisites the corresponding 100-Level Courses. The students of the Department of History and Archaeology must choose from among these, in order to complete their programme of studies. Students of other departments may also select them as elective courses, provided they have already successfully attended

the corresponding 100-Level Course (or have the permission of the instructor). The Department also organizes 200-Level Elective Training Courses in History and Archaeology.

300-Level Courses offered by the Department are seminars, which have as prerequisites the equivalent 200-Level Courses. They are open to students of the Department who have successfully completed the fifth semester of their studies. Students must take three seminars in the specialization they have selected. The Department will not approve changes to the programme of studies or the timetable.

## SPECIALISATION IN HISTORY

The programme of studies for the degree with a specialization in History comprises 45 courses, structured as follows:

	ECTS
• Six Introductory 100-Level Courses in History (Compulsory)	30
• Six Introductory 100-Level Courses in Archaeology (Compulsory)	30
• Thirteen 200-Level Courses in History distributed among the following thematic areas (Compulsory):	65
– Ancient History (2)	
– Byzantine History (2)	
– Medieval History (2)	
– Early Modern and Modern Greek History (2)	
– Early Modern and Modern European History (2)	
– Contemporary Greek History (2)	
– Post-war World (1)	
• Two 200-Level Elective Courses offered by the Department in History or Archaeology	10
• Three 300-Level Courses (Seminars) in History	30
• Three Courses in Ancient Greek Philology	15
• Two Courses in Latin Philology	10
• One Course in Byzantine Philology	5
• Two Courses in Modern Greek Philology	10
• Four Elective Courses	20
• Three Courses in Foreign Language(s)	15
<b>TOTAL</b>	<b>240</b>

## SPECIALISATION IN ARCHAEOLOGY

The programme of studies for the degree with a specialisation in Archaeology comprises 45 courses, structured as follows:

	ECTS
• Six Introductory 100-Level Courses in History (Compulsory)	30
• Six Introductory 100-Level Courses in Archaeology (Compulsory)	30



• Thirteen 200-Level Courses in Archaeology distributed among the following thematic areas (Compulsory)	65
– Prehistoric and Protohistoric Archaeology (2)	
– Classical Archaeology (Sculpture, Vase painting or Monumental painting and Architecture) (3)	
– Byzantine Archaeology (2)	
– Introduction to the History of Western Art (1)	
– Byzantine Archaeology or History of Western Art (1)	
– Material Culture of Modern Times (1)	
– Archaeometry (1)	
– Introduction to Environmental Archaeology (1)	
– Introduction to Maritime Archaeology (1)	
• Three 200-Level Elective Courses offered by the Department in History or Archaeology	15
• Three 300-Level Courses (Seminars) in Archaeology	30
• Three Courses in Ancient Greek Philology	15
• Two Courses in Latin Philology	10
• One Course in Byzantine Philology	5
• Two Courses in Modern Greek Philology	10
• Three Elective Courses	15
• Three Courses in Foreign Language(s)	15
<b>TOTAL</b>	<b>240</b>

## MINOR DEGREE IN HISTORY

For a minor degree in History, students must successfully complete 11 courses (60 ECTS). The courses required are the following:

### A. Five Compulsory Introductory Courses (25 ECTS)

HIS 108 Introduction to Modern Greek History

HIS 112 Introduction to Byzantine History

HIS 134 Introduction to Medieval Western History

HIS 144 Introduction to Ancient History

HIS 181 Introduction to European History (1789-1918)

### B. Five 200-Level Courses (25 ECTS),

from those offered every semester by the Department of History and Archaeology (see Table II).

### C. One 300-Level Seminar (10 ECTS),

from those offered every semester by the Department of History and Archaeology (see Table II).

## MINOR DEGREE IN ARCHAEOLOGY

For a minor degree in Archaeology, students must successfully complete 11 courses (60 ECTS). The courses required are the following:

### A. Five Compulsory Introductory Courses (25 ECTS)

ARC 118 Introduction to the Mediterranean Bronze Age Cultures

ARC 123 Introduction to Classical Archaeology I (Geometric – Classical period)

ARC 132 Introduction to Byzantine Art and Archaeology

ARC 140 Introduction to Folk Art- Traditional Craftsmen

ARC 141 Introduction to Environmental Archaeology

### B. Five 200-Level Courses (25 ECTS)

from those offered every semester by the Department of History and Archaeology (see Table II).

### C. One 300-Level Seminar (10 ECTS)

from those offered every semester by the Department of History and Archaeology (see Table II).

## ADMISSION, CONDITIONS FOR ADMISSION, SELECTION

Fifteen students are admitted to each minor degree programme every year. Students may register in the programme during the third or the fifth semester of their main studies. Application and registration take place during the fall semester. The minor degree begins in the spring semester of each academic year. Courses in History (for the minor degree in History) and courses in Archaeology (for the minor degree in Archaeology) that the students may have already passed during their main programme of studies will be recognized as part of the minor degree.

Criteria for selection are the student's academic record (minimum grade 7/10) and the consent of the Chairs of the two relevant Departments.

## COURSE DESCRIPTIONS

### FALL SEMESTER

#### HIS 105 Introduction to Historical Studies, Methodology and Philosophy of History (5 ECTS)

General theoretical issues. The formation of historiographic tradition (before historiography, birth and development of historiography from the beginning until the mid-19th century, formation of the modern science of history and methodology, new trends, interdisciplinarity of contemporary historiography). The technique of historical research. Writing history (preparation, collection, archiving and processing historical material, analysis of historical data, synthesis).

#### HIS 108 Introduction to Modern Greek History (5 ECTS)

Introduction to modern Greek historiography and a brief view of modern and contemporary Greek history from Ottoman rule to the fall of the dictatorship in Greece and the Turkish invasion of Cyprus. A survey that examines the historical sequence of events, the development of political and state institutions, and social and political changes.

#### HIS 134 Introduction to Medieval History (5 ECTS)

Basic chronological survey of the main events and currents in the West from the decline and fall of the Western Roman Empire to the Protestant Reformation. Students take a

midterm examination that covers the Early Middle Ages (until 1000) and the High Middle Ages until 1191. The final examination stresses the second half of the High Middle Ages (1191-1300) and the Late Middle Ages (1300-1525). Students also write a paper analyzing a recent scholarly article.

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#### **HIS 144 Introduction to Ancient History (5 ECTS)**

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Greek and Roman History from the "Dark Ages" to the Late Roman Empire. The course is divided into three main parts:

- a) Consideration of the available sources
- b) Ancient Greek History: From the end of the Mycenaean Period to the end of the Hellenistic Period.
- c) Roman History: From the 8th century BC to the end of Late Antiquity.

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#### **HIS 181 Introduction to Modern European History (1789-1918) (5 ECTS)**

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This is an introductory, "broad brush" survey of the history (mainly political) of Europe from the French Revolution to the end of the First World War. Themes that are developed in the course include: The French Revolution – Napoleonic Europe – The Congress of Vienna – The Revolutions of 1830 and 1848 – Napoleon III – The Eastern Question - The unifications of Italy and Germany – The scramble for Empire – The origins of the First World War – The outbreak and the course of First World War – The Russian Revolution – The end of the War.

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#### **ARC 117 Introduction to Prehistory (5 ECTS)**

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The course will introduce students to the Prehistory of the Eastern Mediterranean. The chronological periods which will be covered are the Neolithic and the Chalcolithic, as well as questions relating to the transition to the Bronze Age. The course will focus on issues such as the way of life in these first farming communities, architecture, burial customs and technology. As an integral part of the course there will be visits to the Archaeological Museum of Nicosia, as well as archaeological sites of this period.

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#### **ARC 123 Introduction to Classical Archaeology I (Geometric-Classical Periods) (5 ECTS)**

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The course examines the period from 1100-330 BC, i.e. it comprises the Geometric, Archaic and Classical eras. It presents the specific character of each period and analyses its achievements. It is based on a presentation of representative monuments of each period and on the analysis of works of sculpture, vase painting, architecture and metalworking. Furthermore, it investigates phenomena such as the appearance of myths in Greek art, the establishment of the human figure at the centre of artistic representation, and the quests that led to the genesis of monumental sculpture and Greek temples.

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#### **ARC 132 Introduction to Byzantine Art and Archaeology (5 ECTS)**

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This course aims to introduce students to Byzantine material culture and secular and religious art from the 4th

century down to the fall of the Byzantine Empire in A.D. 1453. It is structured as a survey of representative works of art from various artistic media, including architecture, sculpture, monumental painting (mosaics and frescoes), illuminated manuscripts, panel icons, and the minor arts. One of the main objectives of this course is highlighting the diversity and the salient characteristics of artistic expression in Byzantium, as well as investigating the role that art played in the lives of the Byzantines, both in the private and public spheres.

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#### **ARC 140 Introduction to Folk Art-Traditional Craftsmen (5 ECTS)**

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Definition of Folk Culture, Folk/Traditional Art, Folklore, Ethnology, Ethnography, Cultural Anthropology, etc.

- Ethnography - Folklore in its modern perspective
- Survey of research
- Methods, sources and importance of Folk Art
- The role of Ethnographic Museums
- Historical background
- Socio-economic conditions
- Traditional Craftsmen
- Methods of recording traditional crafts
- Processing of raw materials

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### **SPRING SEMESTER**

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#### **HIS 112 Introduction to Byzantine History (5 ECTS)**

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The course aims to provide students with the basic knowledge of Byzantine history from the early period until 1453. Special emphasis will be placed on the chronological facts of each period, the role and function of the institutions of the Byzantine Empire as well as the peculiar features of Byzantine society within the limits of the medieval world. Moreover, the endogenous and exogenous factors which were decisive for the formation of political and religious powers will be analysed.

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#### **HIS 144 Introduction to Ancient History (5 ECTS)**

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See Fall Semester above.

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#### **ARC 118 Introduction to the Mediterranean Bronze Age Cultures (5 ECTS)**

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Introductory course on the archaeology of the Mediterranean cultures during the Bronze Age. The geographical co-ordinates of the course are defined by the Greek peninsula to the west and by the Syro-Palestinian coast to the east. Although the emphasis is placed upon the development of the Aegean Bronze Age cultures - the Trojan, the Cycladic, the Helladic and the Minoan - an elementary introduction is also provided for the Egyptian, the Canaanite and the Cypriote Bronze Age cultures in the Eastern Mediterranean.

### **ARC 124 Introduction to Classical Archaeology II (Hellenistic and Roman Periods) (5 ECTS)**

General survey of the Hellenistic and Roman world: Hellenistic Kingdoms (323-30 BC), early Rome (264-30 BC) and the Roman Empire (27 BC-4th cent. A.D.). Main stages of development and characteristics of the two periods. Presentation and analysis of key monuments and works of art.

### **ARC 141 Introduction to Environmental Archaeology (5 ECTS)**

Environmental Archaeology studies the morphology of the ground, plant, animal and even human remains, relics of ancient agricultural activities, and other issues relating to the ancient environment. The study of all these enables us to reconstruct the ancient environment. With environmental archaeology we learn about the whole of human life in the past. The course will introduce students to the various fields of Environmental Archaeology (Geoarchaeology, Archaeobotany, Zooarchaeology and Palaeopathology) and the methods applied in each of these for the study of ancient environmental remains.

### **ARC 150 Introduction to the History of Western Art (4th-18th C.) (5 ECTS)**

An overview of Western European art from Late Antiquity to Rococo. Discussion will focus on representative works of architecture, sculpture, painting and the minor arts from each individual period (Early Christian, Early Medieval, Romanesque, Gothic, Renaissance, Mannerism, Baroque and Rococo). The course aims to familiarize students with issues of periodization and current methodological approaches to the examination and analysis of works of art.

### **ARC 180 Introduction to Maritime Archaeology (5 ECTS)**

The purpose of the course is to introduce the students to Maritime Archaeology, so that they can: a) understand that its particular character lies on the interpretative approach of material remains, as parts of maritime civilization, b) study the archaeological remains pertinent to the scope of the domain, and c) learn about the special methods and techniques used in underwater archaeology. With the completion of the course, students are expected to a) have acquired basic knowledge in the following thematic areas: methods and techniques of underwater archaeology, ancient shipbuilding and ship types, pre-industrial seafaring, coastal changes related to natural phenomena, types of ancient harbours, and history of maritime archaeology; b) to have understood that underwater is only a part of maritime archaeology, which is not limited by the environment where the antiquities are found.

**TABLE I: ANALYTICAL PROGRAMME OF STUDIES  
FOR THE FIRST FOUR SEMESTERS**

	ECTS		ECTS		
<b>1st Semester</b>		<b>4th Semester</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>			
ARC 117	Introduction to Prehistory	5	<b>For students specialising in Archaeology:</b>		
ARC 123	Introduction to Classical Archaeology I (Geometric - Classical period)	5	ARC 141	Introduction to Environmental Archaeology	5
HIS 108	Introduction to Modern Greek History	5	ARC 150	Introduction to the History of Western Art (4th-18th century)	5
HIS 144	Introduction to Ancient History	5	ARC 180	Introduction to Maritime Archaeology	5
BMG 100	Reading Byzantine Texts	5	AEF	One course in Ancient Greek Philology	5
BMG 120	Introduction to Modern Greek Philology	5	LAT	One course in Latin Philology	5
<b>TOTAL</b>	<b>30</b>	BMG	One course in Modern Greek Philology	5	
		<b>TOTAL</b>	<b>30</b>		
<b>2nd Semester</b>		<b>For students specialising in History:</b>			
<b>Spring Semester</b>					
ARC 118	Introduction to the Mediterranean Bronze Age Cultures	5	HIS		5
ARC 124	Introduction to Classical Archaeology II (Hellenistic and Roman periods)	5	HIS		5
HIS 112	Introduction to Byzantine History	5	HIS		5
AEF 131	Ancient Greek Prose Composition	6	AEF	One course in Ancient Greek Philology	5
LAT 195	Latin Prose Composition	5	LAT	One course in Latin Philology	5
BMG	One course in Modern Greek Philology	5	BMG	One course in Modern Greek Philology	5
<b>TOTAL</b>	<b>31</b>	<b>TOTAL</b>	<b>30</b>		
<b>3rd Semester</b>					
<b>Fall Semester</b>					
ARC 132	Introduction to Byzantine Art and Archaeology	5			
ARC 140	Introduction to Folk Art – Traditional Craftsmen	5			
HIS 105	Introduction to Historical Studies, Philosophy and Methodology of History	5			
HIS 134	Introduction to the History of the Medieval West	5			
HIS 181	Introduction to Modern European History	5			
AEF	One course in Ancient Greek Philology	5			
<b>TOTAL</b>	<b>30</b>				

**Note:**

*Students of the Department must have completed ALL Compulsory Courses from the Departments of History and Archaeology, Classics and Philosophy and Byzantine and Modern Greek Studies by the 4th Semester of their studies.*



TABLE II: COURSES OFFERED

	ECTS		ECTS
<b>Fall Semester</b>		<b>Spring Semester</b>	
ARC 117 Introduction to Prehistory	5	HIS 112 Introduction to Byzantine History	5
ARC 123 Introduction to Classical Archaeology I (Geometric – Classical period)	5	ARC 118 Introduction to the Mediterranean Bronze Age Cultures	5
ARC 132 Introduction to Byzantine Art and Archaeology	5	ARC 124 Introduction to Classical Archaeology II (Hellenistic and Roman Periods)	5
ARC 140 Introduction to Folk Art- Traditional Craftsment	5	ARC 141 Introduction to Environmental Archaeology	5
HIS 105 Introduction to Historical Studies, Philosophy and Methodology of History	5	ARC 150 Introduction to the History of Western Art (4th-18th century)	5
HIS 108 Introduction to Modern Greek History	5	ARC 180 Introduction to Maritime Archaeology	5
HIS 134 Introduction to Medieval History	5		
HIS 144 Introduction to Ancient History	5		
HIS 181 Introduction to European History (1789-1918)	5		

\* **Note:** Additional courses will be announced in due course.











# MEDICAL SCHOOL

Dean:  
*Gerasimos Filippatos*





## Medical School

[www.ucy.ac.cy/medical/en](http://www.ucy.ac.cy/medical/en)

### DEAN

Dr Gerasimos Filippatos

### PROFESSORS

Dr Christos Dervenis

Dr Zacharias Zachariou

Dr Panayiotis Yiallourous

### ASSOCIATE PROFESSORS

Dr. Evangelos Kalaitzakis

### ASSISTANT PROFESSORS

Dr Nikolas Dietis

Dr Giorgos Nikolopoulos

### LECTURERS

Dr Eirini Christaki

Dr Anastasia Konstantinidou

Dr Constantinos Parperis

Dr Anneza Yiallourou

Note: The Medical School also employs a number of Visiting Professors, Special Teaching Staff and Special Scientists.

## INTRODUCTION

The University of Cyprus Medical School accepted its first students in September 2013. The Medical School offers a complete undergraduate Medical Programme (MD) in Cyprus, a six-year programme based at the University of Cyprus and at affiliated hospitals in Nicosia (Nicosia General Hospital, Makarios Hospital, Bank of Cyprus Oncology Center and Cyprus Institute of Neurology and Genetics). Students, who successfully complete the programme, will graduate as qualified medical practitioners.

In addition to the standard medical curriculum, the UCY medical degree programme also emphasizes critical thinking skills, lifelong learning and excellence in patient-centred clinical practice. By offering an innovative undergraduate curriculum underpinned by the academic excellence of the University of Cyprus, the new programme will train medical doctors fully qualified to practice in today's world.

## PROGRAMME

The Programme is divided into three phases:

- Phase I: one year pre-medical studies in basic sciences.
- Phase II: two years integrated basic medical sciences including behavioral principles.
- Phase III: three years clinical studies.

The programme is taught and assessed in Greek, with a limited number of lectures in English. Students have the option to do their required presentations in Greek or English.

The programme has been drawn from well-regarded and long-established European medical schools, and has developed its own comprehensive as well as unique medical sciences curriculum, adapted to the needs and the environment of Cyprus.

The expertise and resources of the University of Cyprus are supplemented with newly appointed international experts who assist in developing the educational, research and administrative components of the new Medical School.

For more information, please contact the Medical School Secretariat tel.: 22894352, e-mail: [medical@ucy.ac.cy](mailto:medical@ucy.ac.cy) or visit the Medical School's website at [www.ucy.ac.cy/medical-en](http://www.ucy.ac.cy/medical-en).









# FACULTY OF PURE AND APPLIED SCIENCES

Dean:

*Giorgos Papadopoulos*

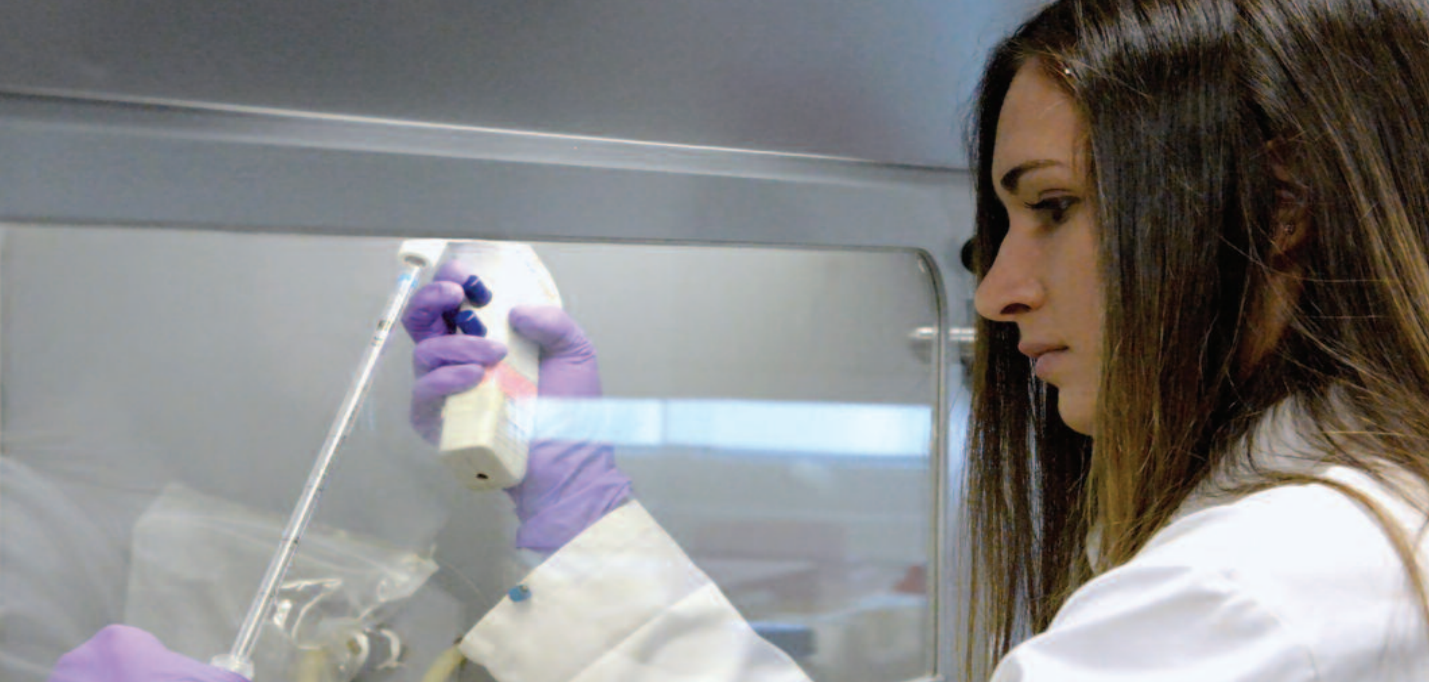
Deputy Dean:

*Alekos Vidras*

## DEPARTMENT

- Biological Sciences
- Chemistry
- Mathematics and Statistics
- Physics





Faculty of Pure and Applied Sciences

## ● ● ● ● Department of Biological Sciences

[www.ucy.ac.cy/biol/en](http://www.ucy.ac.cy/biol/en)

### **CHAIRPERSON**

Spyros Sfenthourakis

### **VICE-CHAIRPERSON**

Pantelis Georgiades

### **PROFESSORS**

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Constantinos Deltas

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Niovi Santama

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### **ASSISTANT PROFESSORS**

Yiorgos Apidianakis

Alexander N. G. Kirschel

Anna Papadopoulou

Chrysoula Pitsouli

Vasilis J. Promponas

Katerina Strati

## INTRODUCTION

Biology lies at the forefront of scientific discovery and public attention at a global level, since in the past few decades our understanding of life has increased at an unprecedented rate, from the molecular and cellular level to that of the biotic communities and ecosystems. At the same time, biological sciences contribute to the interdisciplinary nature of modern research, uniting traditional disciplines and opening up new areas of interdisciplinary research.

In addition to the deeper understanding of nature, the function and evolution of all living beings as well as, the phenomenal increase of our knowledge on biological systems leads to novel and exciting applications in a variety of domains, such as health (understanding diseases, genetic diagnoses, new treatment strategies using stem cells, etc.), drug industry (drug design, pharmacogenomics, etc.), agricultural production and food industry (organic and sustainable practices, genetically improved plants and animals, aquaculture, etc.), sustainable use of biological resources (fisheries, forestry, etc.), and conservation.

## OBJECTIVES

The main objectives of the Department are:

- To develop competitive research programmes in fields like immunology, cell biology, developmental biology, embryology, bioinformatics, genetics, epigenetics, virology, neurobiology, and cancer treatment and prevention, as well as in evolution, ecology, biodiversity and sustainable use of its components.
- To offer high quality education and training to students, so that they become competitive at a global scale.
- To offer high quality services to the public and private sectors in Cyprus, especially concerning public health and the environment.

## UNDERGRADUATE PROGRAMME OF STUDY

It offers a good background in scientific principles and all fields of biology.

Graduates may continue their studies in postgraduate programmes in Cyprus or abroad, or find employment in education, clinical and diagnostic labs, the pharmaceutical industry, medicinal and genetic research, biotechnology, biomechanics, aquaculture, organic farming, environmental impact studies, environmental management, biodiversity conservation and many more.

## Courses offered by the Department of Biological Sciences

### Compulsory Courses

- BIO 102 Principles of Biology I
- BIO 111 Principles of Biology II
- BIO 201 Genetics
- BIO 202 Molecular Biology
- BIO 221 Biochemistry I
- BIO 222 Biochemistry II
- BIO 230 Introduction to Computational Biology
- BIO 241 Laboratory Methods and Techniques I
- BIO 242 Laboratory Methods and Techniques II
- BIO 301 Ecology
- BIO 302 Molecular Cell Biology
- BIO 361 Introduction to Developmental Biology
- BIO 371 Microbiology
- BIO 382 Animal Physiology
- BIO 401 Evolutionary Biology
- BIO 451 Epigenetics
- BIO 471 Immunology
- BIO 481 Zoology
- BIO 482 Botany
- BIO 490 Search and Management of Bibliographic Sources
- BIO 491 Undergraduate Thesis I
- BIO 492 Undergraduate Thesis II

### Departmental Elective Courses

- BIO 311 Molecular and Cellular Neuroscience
- BIO 331 Computational and Systems Biology
- BIO 350 Development and Genetics of Model Organisms
- BIO 351 Human Molecular and Medical Genetics
- BIO 353 Evolutionary Genetics and Genomics
- BIO 354 Systems Biology
- BIO 355 Gene Regulation
- BIO 362 Special Topics in Developmental Biology
- BIO 365 Stem Cells
- BIO 372 Bacterial Pathogenesis
- BIO 381 Plant Physiology
- BIO 402 Advanced Issues in Ecology
- BIO 403 Marine Biology
- BIO 404 Environmental Pollution
- BIO 405 Phylogenetics
- BIO 406 Ornithology
- BIO 408 Ecophysiology
- BIO 409 Conservation Biology
- BIO 410 Biodiversity of Cyprus
- BIO 411 Behavioral Ecology
- BIO 413 Biogeography
- BIO 414 Field Course
- BIO 415 Statistical Methods in Ecology
- BIO 423 Molecular Oncology
- BIO 424 Microscopic Techniques
- BIO 431 Advanced Topics in Computational and Systems Biology

- BIO 432 Clinical Bioinformatics
- BIO 434 Principles of Structural Biology
- BIO 442 Internship in Biology
- BIO 461 Experimental Embryology
- BIO 462 Advanced Topics in Molecular Embryology
- BIO 472 Virology
- BIO 473 Advanced Topics in Cellular and Molecular Immunology
- BIO 474 Hot Topics in Infectious Diseases
- BIO 475 Viral Ecology
- BIO 495, 496, 497, 498, 499 Current Topics in Biology

### Courses offered by other Departments

- PHY 102 Physics for Chemists
- MAS 001 Mathematics I
- MAS 002 Mathematics II
- MAS 030 Introduction in Probability and Statistics
- LAN 100 General Advanced English
- LAN 103 English for Biology
- CHE 021 Introductory Chemistry (for Biologists and Physicists)
- CHE 030 Organic Chemistry Lab for Students of Biology
- CHE 031 Organic Chemistry for Students of Biology
- Free Elective Course
- Free Elective Course
- Free Elective Course

### Courses Taught in English for ERASMUS COURSES

- BIO 221 Biochemistry
- BIO 230 Introduction to Computational Biology
- BIO 301 Ecology

## COURSE DESCRIPTIONS

### Compulsory Courses

#### BIO 102 Principles of Biology I (7 ECTS)

An introductory course on the biology of organisms, providing an integrative overview of a wide array of organisms, starting with bacteria and archaea, moving to the protists and fungi and finally examining multicellular eukaryotes. The course presents life in an evolutionary context and stresses solutions imposed on organisms by their environment. Special emphasis is given to organisms that are important model systems in modern biological research and, in addition, seminal discoveries using these model systems are also described. Additional topics that are covered include basic taxonomy, concepts of cell biology, biological molecules and biodiversity.

#### BIO 111 Principles of Biology II (7 ECTS)

This foundation course will introduce students to key concepts of Modern Molecular Biology, Genetics and

Virology. Topics include: principles and methodology of prokaryotic and eukaryotic genetics; chemical, molecular and functional properties of the genetic material; applications of recombinant DNA technology; the fundamental aspects of molecular virology and of human diseases.

#### BIO 201 Genetics (6 ECTS)

The course focuses on the basic principles of genetics by presenting the important concepts of classical genetics and the scientific process by showing how scientific concepts develop from observation and experimentation. We provide numerous examples to show how genetic principles have emerged from the work of different scientists.

We emphasize that science is an ongoing process of observation, experimentation, and discovery. We incorporate human examples showing the relevance of genetics to societal issues. Students are keenly interested in the genetics of their own species and they find it easier to comprehend complex concepts, when these concepts are illustrated with human examples. We develop critical thinking skills by emphasizing the analysis of experimental data and problems.

The course comprises 8 chapters: Chapters 1–2 introduce the science of genetics, basic features of cellular reproduction, and some of the model genetic organisms; Chapters 3–8 present the concepts of classical genetics - Mendelism and its extensions, and the chromosomal basis of inheritance per Morgan and colleagues - as well as the basic procedures for the genetic analysis of microorganisms.

#### BIO 202 Molecular Biology (6 ECTS)

From DNA to protein: the mechanisms in the flow of genetic information and their regulation. DNA replication, recombination, repair. Dynamic chromatin structure. RNA transcription and mechanisms of regulation of gene expression. RNA splicing and post-transcriptional processing. Non-coding RNAs (microRNAs, siRNAs, piRNAs, long ncRNAs). Protein synthesis and post-translational processing of proteins. Topology of the flow of genetic information in the nucleus, nuclear architecture and nuclear organelles. Nucleocytoplasmic import and export mechanisms. Techniques for the analysis of the flow of genetic information.

#### BIO 221 Biochemistry I (6 ECTS)

The course is designed to provide an understanding of the physical, structural and functional properties of the chemical components of living matter. The course will cover the three major classes of biological molecules: proteins, carbohydrates and lipids. Emphasis will be on the chemical properties and three-dimensional structure of these molecules in relationship to their biological function, as well as laboratory techniques for their isolation and characterization. Topics include: Protein structure and function, Hemoglobin-Structure, function and genetic disorders, Sugars and Polysaccharides, Lipids and bio-

logical membranes. Principles of thermodynamics, the mechanisms of enzyme action, enzyme kinetics, and the control mechanisms which regulate enzymatic reactions will be discussed. Principles governing metabolism, including bioenergetics, compartmentalization, the operation and control of pathways, the major metabolic pathways of carbohydrate metabolism, oxidative metabolism and lipid metabolism (i.e., triglycerides, phospholipids and sterols).

#### **BIO 222 Biochemistry II (6 ECTS)**

The course is designed to examine selected topics in Biochemistry, including hormones: molecular physiology of endocrine system, the hypothalamus-hypophysis axis, hormonal control of biochemical processes, metabolic disorders. Signal transduction: receptors, G proteins, second messenger systems and intracellular cascades. Enzyme-linked receptors and their intracellular cascades. Genetic, cellular and organismal responses to hormone signaling. Advanced research and diagnostic techniques in Biochemistry and Clinical Biochemistry (RIA, ELISA).

#### **BIO 230 Introduction to Computational Biology (6 ECTS)**

This course will demonstrate, through Lectures and Laboratory work, how Computational tools have revolutionized modern biological research with an emphasis on nucleic acid and protein sequence and structural analysis, also including an introduction to the analysis of complex biological systems. Lectures cover principles and methods used for sequence alignment, motif finding, structural modeling, structure prediction and network modeling. Laboratory practicals include examples on power usage of state-of-the-art methods/tools related to the topics covered in the lectures, and student mini-research projects based on programming and analysis of real-world datasets.

#### **BIO 241 Laboratory Methods and Techniques I (6 ECTS)**

This course focuses on various experimental techniques widely used in Biochemistry. It also includes extensive practice in scientific style writing. It emphasizes integration of factual knowledge with understanding the design of experiments and data analysis, so as to promote acquisition of reasoning skills. Students first learn how to perform simple calculations (dilutions, concentrations, pKa values, extinction coefficients and absorbance using Beer's Law) and how to use basic laboratory equipment (pipettes, scale, pH meter, centrifuge, spectrophotometer). They are then introduced to spectroscopic methods for determination of enzyme kinetics and to various techniques for protein extraction, quantification and characterization including SDS-PAGE, Western Blot, Dot Blot, ELISA, and immunofluorescence.

#### **BIO 242 Laboratory Methods and Techniques II (6 ECTS)**

**Prerequisite:** BIO 241

This course provides students with a research-inspired laboratory experience, introducing standard techniques of Molecular Biology, in the context of cloning a gene of interest from genomic DNA. Techniques include

DNA extraction from tissue and bacteria cultures, DNA manipulation (PCR, agarose gel electrophoresis, agarose gel extraction and transformation), X-gal blue/white screening, Restriction Enzyme digests, RNA isolation and characterization, cDNA synthesis (RT-PCR) and analysis. This course also provides students with a diagnostic laboratory experience, introducing standard techniques of histology (fixation, processing, embedding in paraffin wax, sectioning with microtome and H&E staining).

#### **BIO 301 Ecology (6 ECTS)**

Introduction to Ecology. Interactions of biological systems with their environment. Principles and concepts of population and community ecology. The various concepts of niche and habitat. Life history tables. Cost-benefit analysis. The ecosystem approach. Energy flow and biogeochemical cycles. Productivity and food webs. Short-term field work where students will become familiar with basic ecological techniques.

#### **BIO 302 Molecular Cell Biology (6 ECTS)**

**Prerequisite:** BIO 201

This is a comprehensive core course in Molecular Cell Biology providing a robust foundation in the understanding of structure-function relationship in the dynamic organization of the eukaryotic cell that underlies biological processes. Topics covered are: An introduction to the basic concepts of organization and function of the eukaryotic cell; Biological membranes, their dynamic structure and function; Intracellular compartments, protein sorting and modification; Intracellular vesicular traffic, secretion and the endocytotic pathway; Cytoskeleton and molecular motors; Cellular junctions and organization of the extracellular matrix; Nuclear organization and nucleocytoplasmic transport; Cell cycle, overview and its regulation; Apoptosis; Research techniques in Modern Cell Biology.

#### **BIO 361 Introduction to Developmental Biology (6 ECTS)**

This course introduces embryonic development: the fascinating, but still not fully understood, transformation of the fertilized egg into a newborn individual. The importance of Developmental Biology to Medicine and its general concepts are discussed. Emphasis is given to mammalian development using the mouse as model and its clinical importance to humans. The course focuses on current understanding of cellular and genetic/epigenetic basis of fundamental processes taking place during preimplantation and early postimplantation periods. The course does not only present what is known, but also discusses the supporting evidence, thereby introducing the student to critical scientific thinking.

#### **BIO 371 Microbiology (6 ECTS)**

The course offers an overview of microorganisms, including bacteria, archaea, viruses and eukaryotic microorganisms. Topics include microorganism structure, metabolism, and genetics. We will examine the diversity of microbial lifecycles, as well as the role of microorganisms in ecology, disease, and biotechnology applications. Recent advances in the field will be highlighted.



**BIO 382 Animal Physiology (6 ECTS)**

Basic principles of cellular physiology: Membrane potential, action potential, ion channels, synaptic transmission, intracellular signaling pathways.

Nervous system: Cell types, brain anatomy, blood-brain barrier, sensory systems, neuromuscular junction, spinal reflexes, autonomic nervous system. Muscle: Structure, contraction and mechanics of striated and smooth muscle.

Cardiovascular system: Cardiac muscle, electrical activity of the heart, cardiac cycle, blood circulation, vascular system.

Respiratory system: Anatomy, lung volumes, gas flow, gas exchange.

Endocrine system: Hormones, hypothalamus, pituitary, pancreas, thyroid gland, adrenal gland, regulation of the metabolism, reproduction.

Kidney: Anatomy, function, hormonal regulation.

Correlation of physiology and environment.

**BIO 401 Evolutionary Biology (6 ECTS)**

The course covers basic macro- and microevolution and the history of evolutionary biology. Topics include natural and sexual selection, genetic drift and gene flow, phylogenetics and biogeography, speciation, co-evolution, species concepts, population genetics and systematics.

**BIO 451 Epigenetics (6 ECTS)**

*Prerequisite: BIO 201*

The characteristics of a cell or an organism depend on more than just the sequence of bases in its DNA; they are also affected by the structure of chromatin. This demonstration introduces epigenetics, a phenomenon that underlies the differentiation of cells in a complex multicellular organism, and explains some heritable traits that are independent of DNA sequence.

**BIO 471 Immunology (6 ECTS)**

Introduction to Immunology, with attention to the genetics, molecular, and cell biology of antibody production; T-cell mediated immune responses and innate immunity. Topics include the nature of antigens, hypersensitivities, transplantation, cytokines, autoimmunity, cancer, response to infection, and vaccines.

**BIO 481 Zoology (6 ECTS)**

Evolution and divergence of animal phyla. Main morphological characteristics, systematics, ecology and behavior of major animal phyla. Special emphasis on larger phyla, such as Cnidaria, Platyhelminthes, Annelida, Nematoda, Mollusca, Arthropoda, Echinodermata and Chordata.

**BIO 482 Botany (6 ECTS)**

This course considers the fundamental biological principles as they apply to plants. The plant cell and the basic organization of the plant body. Evolution and differentiation of plants. The major groups of plants and their most important characteristics. Structure and function of the organs of representative plants will be considered.

**BIO 490 Search and Management of Bibliographic Sources (1 ECTS)**

The seminar, which is carried out by the Library of University Cyprus in collaboration with the Department of Biological Sciences, is designed to introduce students to electronic Information services offered by the Library of the University of Cyprus, as well as techniques and strategies for searching bibliographic databases and library catalogues via the use of Boolean operators. The use of the software package "RefWorks" is discussed as a tool for gathering, storing and managing bibliographies and citations. Successful completion of this seminar is a prerequisite for undergraduate thesis courses. Students who sign up for BIO 491 Undergraduate Thesis I, in the Spring semester, must also concurrently sign up for BIO 490.

**BIO 491, 492 Undergraduate Thesis I, II (13-14 ECTS)**

The thesis can either be carried out in a laboratory or be of a bibliographical nature. Students, who choose to carry out their thesis in a laboratory, must secure a position in one of the available laboratories, in consultation with their academic advisor. A bibliographical thesis is carried out under the supervision of a thesis advisor, who is also responsible for the topic selection.

**Departmental Elective Courses****BIO 311 Molecular and Cellular Neuroscience (6 ECTS)**

Neurons and Glia, the cell types of the nerve tissue. The basic architecture of the nervous system in vertebrates. Ion homeostasis, electrochemical gradients, gated ion channels and membrane potential. The generation and propagation of action potential in neurons and its characteristics. Synaptic communication, the neuromuscular junction, classical and non-classical neurotransmitters. The glutamatergic synapse and synaptic plasticity. The molecular basis of senses: vision, touch, hearing, taste, smell. Model systems and current research techniques in Molecular and Cellular Neuroscience.

**BIO 331 Computational and Systems Biology (6 ECTS)**

Computational approaches are key to understanding biological systems. This course offers a broad introduction to concepts and tools from computer science and their practical applications in solving real-life biological problems. This is achieved through a series of introductory lectures and hands-on exercises, covering an array of topics including: foundational concepts of modern operating systems, network architectures and applications, online databases and tools for biological data, introduction to problem solving techniques and programming in a high level programming language (Perl or Python), principles of quantitative biological data analysis in the R language / environment for statistical computing.

**BIO 350 Development and Genetics of Model Organisms (6 ECTS)**

This course provides an overview of the model organisms used in basic biomedical research. A historical perspective of the studies in worms, flies, mice, fish, planarians and

plants will be presented, with a focus on the developmental mechanisms governing body plan formation. In addition, special emphasis will be given to discussing the pros and cons of each organism, the availability of genetic tools, methods and resources that facilitate scientists working on these systems.

#### **BIO 351 Human Molecular and Medical Genetics (6 ECTS)**

Examines the molecular basis of inheritance, the genetic code and the flow of genetic information; Mendelian laws of inheritance and presentation of diseases with autosomal-dominant, autosomal-recessive, X-linked and mitochondrial inheritance, mutations and polymorphisms in the human genome. Description of examples of monogenic disorders with reference to the Cypriot population (Thalassaemia, Cystic Fibrosis, Muscular Dystrophy, Familial Mediterranean Fever, inherited nephropathies, neuro-pathies, cancer), and description of special phenomena such as founder effects, gene flow, genetic drift, reduced (or incomplete) penetrance, clinical and phenotypic heterogeneity. Brief description of principles of population genetics and Hardy-Weinberg equilibrium. The significance of genome-environment interactions; approaches to applications of molecular diagnostics. There is also discussion of the dilemmas resulting from contemporary molecular genetics applications.

#### **BIO 353 Evolutionary Genetics and Genomics (6 ECTS)**

Explores the genetic and genomic mechanisms underlying evolutionary change. Special emphasis is given to complex trait evolution and its quantitative analysis, and the impact of modern mapping and genomic techniques on evolutionary biology. Topics include, but are not limited to, the genetics of adaptation and character regression; the evolution of complex characters and traits such as organ systems, the senses, and patterns of behavior; and methods for the study of quantitative trait locus (QTL) variation and multifactorial systems.

#### **BIO 354 Systems Biology (6 ECTS)**

Introduction to genomic methods for acquiring and analyzing genomic DNA sequence. Topics: genomic approaches to determining gene function, including determining genome-wide expression patterns; the use of genomics for disease-gene discovery and epidemiology; the emerging fields of comparative genomics and proteomics; and applications of genomics to the pharmaceutical and biotech sectors. Throughout the course, the computational methods for analysis of genomic data are stressed.

#### **BIO 355 Gene Regulation (6 ECTS)**

All cells in an organism contain the same genomic material but the variability in gene expression among cells defines the cell type and function. The aim of this course is to familiarize students with the variety of mechanisms responsible for regulating the expression of genes in eukaryotic cells. Detailed molecular mechanisms that operate at different levels, such as during transcription,

RNA processing, and translation, will be discussed. In addition, teaching will focus on the organization and packaging of the genetic material in eukaryotic cells and the implications that this has on gene expression. The lectures will introduce a wide range of model organisms and experimental approaches, that are used to study the regulation of gene expression.

#### **BIO 362 Special Topics in Developmental Biology (6 ECTS)**

Detailed analysis of selective topics in mammalian developmental biology (including humans), with emphasis on early embryogenesis, organogenesis and embryoderived stem cells. Important research papers will be presented and discussed in class and students will be required to interpret and discuss their significance.

#### **BIO 365 Stem Cells (6 ECTS)**

The course introduces the concept the 'stem cell', the different types of stem cells and their significance to Medicine and in particular to Regenerative Medicine. Adult stem cells and their importance to human health is discussed. Focus is given to the current knowledge of the cellular and genetic basis of the extraordinary properties of embryo-derived stem cells (such as 'embryonic stem cells') in both mice and humans and their potential uses in Regenerative Medicine. This course is expected to allow students to critically evaluate the significance and future prospects of stem cells.

#### **BIO 372 Bacterial Pathogenesis (6 ECTS)**

The course explores the mechanisms by which bacterial pathogens cause disease in humans and animals. Students learn the strategies that bacterial pathogens use to survive and multiply within their hosts, as well as the strategies hosts use to fend off infections. Lectures focus on the core principles of the underlying similarities among pathogens and their mechanism of action. Thought-provoking exercises are deployed to convey the excitement and fun of the scientific discovery.

#### **BIO 381 Plant Physiology (6 ECTS)**

Introduction to the physiology, biochemistry, and development of plants. Emphasis on the physiological basis for structural adaptations of plants in relation to environmental constraints and on mechanisms leading to developmental and physiological integration at the whole plant level. Understanding of plant physiological processes is necessary for optimized productivity, e.g. industrial products (manufactured fibers, lumber, essential oils, pharmaceuticals) or other massively consumed products (cereal, vegetables, floricultural). Basic principles and current trends in plant physiology (based on recent research) are presented. Topics include: Principles of plant cell biology, hormones, long-range solute transport, nutrients, photosynthesis, nitrogen and sulfur, carbohydrate metabolism, respiration and photorespiration, external stimuli and signaling. Laboratory sessions provide an introduction to basic measurement techniques in plant physiology.

**BIO 402 Advanced Issues in Ecology (6 ECTS)**

Discussion of several advanced issues of community and evolutionary ecology. Intra- and interspecific competition, commensalism, parasitism and altruistic interactions. Life history strategies. Metapopulations and metacommunities. Null model approaches to ecology.

**BIO 403 Marine Biology (6 ECTS)**

The course begins with a brief introduction to the physical, chemical, and geological processes that affect the major features of the ocean: plate tectonics, ocean circulation, tidal cycles and shoreline processes. Understanding the biology of marine organisms: adaptations of animals and plants to a saltwater existence, the different kinds of marine habitats and the diversity, abundance and distribution of organisms associated with them, as well as selected examples of population and community ecology of marine ecosystems and their productivity. In addition, various aspects of applied ecology, which may include commercial fisheries, mariculture, and marine pollution, will be considered.

**BIO 404 Environmental Pollution (6 ECTS)**

The course focuses on the causes of environmental pollution as well as the ways of monitoring pollution. Topics include: Pollution assessment and analysis, environmental monitoring, chemical processes in the air, water and soils, data and environmental analysis and problem solving, environmental carcinogens.

**BIO 405 Phylogenetics (6 ECTS)**

Principles and methods of phylogenetic analysis using morphological and molecular data. Maximum parsimony, maximum likelihood and Bayesian inference. Analysis of sequence data. Statistical support of clades and trees. Dating of cladogenetic events. Commonly used software.

**BIO 406 Ornithology (6 ECTS)**

Systematics, distribution, behavior and ecology, morphology and physiology of birds. Field trips introduce students to birds in their habitats, migration, communication, reproduction, and to data collection methods including bird ringing, and survey methods such as point counts and line transects.

**BIO 408 Ecophysiology (6 ECTS)**

General principles of ecophysiology. Physiological responses of plants and animals to environmental stress. Addressing ecological questions under a biophysical, biochemical, and molecular perspective. Physiological adaptations of plants and animals in a changing world. Responses to climate change and pollution load. Case studies on Mediterranean species of plants and animals.

**BIO 409 Conservation Biology (6 ECTS)**

Threats to biodiversity. Extinctions: past and current rates and their causes. Habitat fragmentation and degradation. Invasive species. Diversity and endemism hotspots. Protected areas and species. Conservation and manage-

ment of ecosystems, communities and species. Concepts of stability, equilibrium and resilience. Population viability analysis and GIS methods in conservation biology. Biodiversity values and uses.

**BIO 410 Biodiversity of Cyprus (6 ECTS)**

Introduction to the most important elements of the biodiversity of Cyprus. General patterns of endemism and species richness, and their relationships with the palaeogeographical and palaeoecological history of the island. Most important floral and faunal elements with emphasis on endemics and threatened species. Hotspots of diversity and protected sites.

**BIO 411 Behavioral Ecology (6 ECTS)**

A review of animal behaviour focusing on proximate and ultimate mechanisms of behavior, including topics such as animal communication, foraging strategies, migration, social competition, sexual selection, mating systems, cooperation and social behavior. The course includes field trips, where students work on individual or group projects in animal behavior. Students then analyze data, write up project reports and present their work.

**BIO 413 Biogeography (6 ECTS)**

Content, history and development of biogeographical research. Basic principles and major processes governing the spatial distribution of organisms. The divergence of ecological and historical biogeography. Theories and methods in ecological biogeography. The significance of the MacArthur-Wilson paradigm in island biogeography. The importance, interpretation and ramifications of the species-area relationship. Assembly rules in biotic communities – core and satellite species, species co-occurrence, community nestedness and methods of analysis. Basic principles and methods in historical biogeography. The recent bloom of phylogeography. Conservation biogeography – biogeography as a tool for the protection and conservation of biodiversity.

**BIO 414 Field Course (6 ECTS)**

The course provides a few introductory lectures describing common and tractable methods of sampling, recording and studying in the field. Students will then apply such methods during a continuous 2-3 week field trip or repeated short-term visits to sampling sites. They will undertake small-scale projects in ecology, biodiversity, animal behavior and ornithology. Afterwards, in the lab, students will sort samples, analyze and evaluate data collected, and finally submit a report with their findings.

**BIO 415 Statistical Methods in Ecology (6 ECTS)**

An introduction to the most commonly used statistical methods in ecological research. Examples from real case studies. Calculation of diversity indices, community (dis)similarity, ANOVA and multivariate statistics. Introduction to analysis of survivorship tables, mark-recapture and environmental data. General principles of null model analysis. Widely used software for ecological analysis.



### **BIO 423 Molecular Oncology (6 ECTS)**

By examining the role of chemical carcinogens and oncogenic viruses, students will gain an understanding of malignant cellular transformation and the onset of cancer. They will also learn how oncogenes and tumor suppressor genes control gene expression, cell cycle, apoptosis and metastasis. Students will understand how chemoprevention through dietary components, synthetic compounds and hormones contribute to reducing the risk of cancer. Finally, the new approaches of targeted cancer therapeutics and personalized medicine will be compared to the established approaches. Those selecting this course must have good knowledge of Biochemistry and Molecular/Cellular Biology.

### **BIO 424 Microscopic Techniques (6 ECTS)**

Emphasis is placed on understanding the operation of microscopes(s) (including routine maintenance), interaction of beam and specimen, a variety of specimen preparation techniques, photographic techniques for microscopy, and photographic procedures for presentation of data.

### **BIO 431 Advanced Topics in Computational and Systems Biology (6 ECTS)**

This course will cover more specialized and applied topics of Computational and Systems Biology. Topics to be covered include Probabilistic and Optimization methods, Machine Learning approaches (clustering, classification, prediction), image analysis methods. Emphasis is placed on applications to specific biological problems, such as Phylogenetic inference and Ancestral state reconstruction, Comparative genomics and phylogenomics, Protein structure prediction and design, as well as "Omics" approaches to describing biological systems.

### **BIO 432 Clinical Bioinformatics (6 ECTS)**

Due to recent advancements in High Throughput Genomics technology, we are able to study the function of many genes. We have the ability to compare genes in normal vs. diseased cells, to help us better understand the molecular mechanisms of the different diseases. In this course students will learn how to: program in R, a powerful statistical programming language, how to use statistical methods to analyze real biomedical data and how to interpret the results.

### **BIO 434 Principles of Structural Biology (6 ECTS)**

An introduction to the various methods currently in use for determining the three-dimensional structures of biological macromolecules and macromolecular complexes at or near atomic resolution. A general introduction to the methods is provided, followed by summaries of the practical aspects and the range of applications for which each technique is applicable. The structure-function relationship is enforced, through examining specific examples (e.g., DNA-binding, structural and membrane proteins; large macromolecular assemblies). Advanced topics: Protein folding and stability; protein mechanics and design; protein structure prediction; Structural proteomics; Genomes in 3D.

### **BIO 442 Internship in Biology (6 ECTS)**

This course involves laboratory or field research supervised by a faculty member of the Department of Biological Sciences. Only students with superior academic performance are eligible for this course. Student assessment is based on a ten-minute public presentation of the lab/field work results in front of his/her Academic Advisor and Internship Supervisor. Students may sign up for this course after completion of their second year of studies, but not concurrently with their diploma thesis research.

#### **Prerequisites:**

1. The student must have attained a Grade Point average of at least 8.00 during the first two years of study.
2. The student must have completed successfully at least 19 courses during the first two years of study.
3. The Academic Advisor, the faculty member that will supervise the internship ('Supervisor') and the Departmental Committee of Undergraduate Studies must approve the student's application for the course. The Supervisor must also submit to the aforementioned Committee a short description of the proposed research project, which should be different from a possible future project for a diploma thesis that the student may conduct or has already conducted in the same lab.

### **BIO 461 Experimental Embryology (6 ECTS)**

An introduction to basic problems in developmental biology by direct experimentation. Both classical and modern molecular manipulations of developing embryos are performed to study cell specification, differentiation, organ formation, and embryonic induction. Various aspects of pattern formation are analyzed, including the establishment of polarity and body axes, making use of frogs, mice, and fish.

### **BIO 462 Advanced Topics in Molecular Embryology (6 ECTS)**

In-depth exploration of topics in embryology mainly covering primary literature with emphasis on its molecular basis. Seminal papers will be presented and discussed in class and students will be asked to critique and analyze the findings. Lectures will provide the conceptual basis for contemporary research in embryogenesis and organogenesis, while laboratory sessions will provide a hands-on introduction to embryo analysis.

### **BIO 472 Virology (6 ECTS)**

The course examines aspects of fundamental and applied virology. It covers principles, such as the structure of virions, virus replication and the classification of viruses. A number of lectures focus on particular groups of viruses, where both principles and applications of virology are covered. Furthermore, applications of virology are examined, including viral vaccines and anti-viral drugs. Importantly, much of virology is concerned with characteristics of the proteins and nucleic acids of viruses, and with interactions between these molecules and the proteins and nucleic acids of cells. A fine background in molecular biology and

cellular biology and microbiology is considered prerequisite for this course.

#### **BIO 473 Advanced Topics in Cellular and Molecular Immunology (6 ECTS)**

In-depth exploration of a topic in cellular and molecular aspects of immunity, including cellular interactions, antigen processing and presentation, pathogenesis, viral immunology, and cytokines.

#### **BIO 474 Hot Topics in Infectious Diseases (6 ECTS)**

The course is designed as a detailed survey of some of the most important human microbial and viral pathogens. It investigates these agents in detail and includes the most cutting edge basic research findings, as well as epidemiology, treatment and prevention of infections. The course is organized as a lecture course but interactivity with the students is greatly encouraged. At the end of the course, students make an oral presentation on a relevant topic of their choice.

#### **BIO 475 Viral Ecology (6 ECTS)**

This course explains the ecology of viruses by examining their interactive dynamics with their animal hosts, giving emphasis on the types of transmission cycles that viruses have evolved on principal and alternate hosts. It investigates the concept that viral infections represent areas of overlap in the ecologies of the involved species.

#### **BIO 495, 496, 497, 498, 499 Current Topics in Biology (6 ECTS)**

The course focuses on specific areas of biology, approaching the material through lectures and reading primary literature. Topics in the course will vary between semesters but may include in-depth analysis of specialized areas of biology, advances in methodology, novel applications, etc. Emphasis will be placed on developing skills relevant to careers in biology, such as the ability to analyze, discuss, and present primary sources.

#### **Courses offered to other Departments**

These are introductory courses of general interest, which have been designed to cater to the needs of non-biologists. The overall aim is to introduce students of other departments to the basic concepts of biology and reveal the importance of modern biological sciences in every aspect of life. Each of these courses is 5 or 6 ECTS.

#### **BIO 101 Introduction to Modern Biological Sciences (5 ECTS)**

We are becoming increasingly aware of the relevance of biology to our lives. There are issues that require us to have an elementary knowledge of basic biological trends in order to make informed decisions. This course addresses how and why basic biological research is performed, providing a basic knowledge of experimental design. The major goal of this course is to provide students from all fields with basic intellectual tools needed to approach these issues. Topics are drawn from the subject matter of modern molecular biology, genetics and virology. A

secondary goal of this course is to emphasize historical sequences and intellectual processes involved in the development of biological understanding.

#### **BIO 003 Introduction to Bioinformatics (5 ECTS)**

This course is designed to demonstrate through lectures and laboratory work, how the multidisciplinary field of Bioinformatics has revolutionized modern biological research. Topics include: Biological data and databases, nucleotide sequence analysis, protein sequence and structure analysis, biomolecular sequence comparison methods and applications in deciphering the information encoded in genomic data. Practicals include examples of state-of-the-art methods/tools related to the topics covered in the lectures.

#### **BIO 004 Life Before Birth (5 ECTS)**

An introduction to the still mysterious process of how genes and cells bring about the remarkable transformation of the first-formed cell (the fertilized egg) into a human being. Key concepts in the genetic and cellular aspects of Modern Developmental Biology, with emphasis on human embryos and the usefulness of embryos of other animals for understanding human embryogenesis.

#### **BIO 005 Renegade Cells (5 ECTS)**

Normal cells hold down their cell numbers, by controlling their ability to multiply (divide) and by committing suicide (apoptosis) when necessary, sacrificing themselves for the common good. Normal cells respect their boundaries and obey the signals for growth or death they receive from their neighbors. By comparison, renegade cells, the cells that give rise to cancer, disregard the needs of the community of cells, become "selfish and unsociable," and are only "interested" in their own proliferative advantage. This is a course on the origins and evolution of cancer, designed for the student who has little or no knowledge of biology. Students will learn about the fascinating discoveries of molecular oncology the past 30 years that revolutionized our understanding of the origins and the behavior of cancer, and will understand how this knowledge may lead to targeted therapeutics, tailored or rational drug design and cancer prevention strategies. We will discuss topics of general interest such as: Is there genetic predisposition for cancer? Can diet and other lifestyle habits (smoking, exercise) affect our risk for cancer? Has the incidence of cancer increased in recent years? Does meat contain carcinogens? Does fat or alcohol contribute to cancers? What types of cancer are affected by diet? Are vegetarians at a lower risk for developing cancer?

#### **BIO 006 Biotechnology in our lives (5 ECTS)**

Innovation in the field of Biology affects modern lives through the development of technologies in health-related and other industrial applications. Despite the prevalence of such technologies societies are often uninformed about the underpinnings and mechanisms underlying such technologies resulting in unnecessary bias and poor policy making. This is a course aimed at students with a minimal or no biology background who are interested in

improving their understanding of applications of biology or biotechnology. In this course students will examine various aspects of the effects of biotechnology in everyday life. The goal is to understand the mechanism behind specific technologies and to gain skills required to research and understand novel technologies in the future. Key technologies which are used in nutrition, health, agriculture, research and other industries will be examined (production of genetically modified crops, vaccines/ pharmaceuticals, etc.). Students will also be introduced to ways of mining reliable information and critical analysis in biology. This course will provide an introduction to the concepts and evaluation of established and emerging technologies and discussion of potential ethical and societal implications.

#### **BIO 100 Introduction to Human Genetics (5 ECTS)**

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This course is for students with no previous knowledge of biology and biological systems. Students will be introduced to the main concepts and basic principles of human genetics, so that they can understand the genetic basis of inherited diseases in humans. The class lectures will target issues and questions such as the following:

- Does marriage between close relatives favor the birth of children with inherited conditions?
- Is cancer inherited?
- Will human cloning bring back our lost loved ones?
- What is known about Cypriot genetics and the Cypriot genetic heritage?
- How did foreign occupants influence the Cypriot gene pool?
- Why do people inherit characteristics from ancestors not only seven, but even... 1007 generations back?

These and similar questions are answered during this course, by describing molecular genetic testing methodology and discussing ethical dilemmas. Topics include: molecular basis of inheritance, genetic code, genetic information flow, anatomy of the human genome, recombinant DNA technology, Mendelian inheritance, diseases with autosomal (dominant- recessive) and sex-linked modes of inheritance.



## ACADEMIC PROGRAMME CURRICULUM

ECTS			ECTS		
1st YEAR			3rd YEAR		
1st Semester			5th Semester		
BIO 102	Principles of Biology I	7	BIO 302	Molecular Cell Biology	6
LAN 100	General Advanced English	5	BIO 382	Animal Physiology	6
MAS 001	Mathematics I	6	BIO 471	Immunology	6
PHY 102	Physics for Chemists	6	BIO 482	Botany	6
CHE 021	Introductory Chemistry (for Biologists and Physicists)	6		Departmental Elective Course	6
TOTAL		30	TOTAL		30
2nd Semester			6th Semester		
BIO 111	Principles of Biology II	7	BIO 361	Introduction to Developmental Biology	6
BIO 490	Search and Management of Bibliographic Sources	1	BIO 371	Microbiology	6
LAN 103	English for Biology	5	BIO 401	Evolutionary Biology	6
MAS 002	Mathematics II	6	BIO 451	Epigenetics	6
MAS 030	Introduction in Probability and Statistics	5		Departmental Elective Course	6
CHE 031	Organic Chemistry for Students of Biology	6	TOTAL		30
TOTAL		30	YEAR TOTAL		60
YEAR TOTAL		60	4th YEAR		
2nd YEAR			7th Semester		
3rd Semester					
BIO 221	Biochemistry I	6	BIO 491	Undergraduate Thesis I	13
BIO 230	Introduction to Computational Biology	6		Departmental Elective Course	6
BIO 241	Laboratory Methods and Techniques I	6		Free Elective Course	5
BIO 301	Ecology	6		Free Elective Course	5
CHE 030	Organic Chemistry Lab for Students of Biology	6	TOTAL		29
TOTAL		30	8th Semester		
4th Semester					
BIO 201	Genetics	6	BIO 492	Undergraduate Thesis II	14
BIO 202	Molecular Biology	6		Departmental Elective Course	6
BIO 222	Biochemistry II	6		Departmental Elective Course	6
BIO 242	Laboratory Methods and Techniques II	6		Free Elective Course	5
BIO 481	Zoology	6	TOTAL		31
TOTAL		30	YEAR TOTAL		60
YEAR TOTAL		60	GRAND TOTAL		240

### Note:

- Students must take three Free Elective Courses. These must be from at least two faculties of the University and are selected in consultation with the academic advisor.
- Students must take a total of five Departmental Elective Courses during the third and fourth years of study.

## ECTS WORKLOAD DISTRIBUTION

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	TOTAL ECTS	FROM THE DEPARTMENT OF BIOLOGY	FROM OTHER DEPARTMENTS
1st Semester	30	7	23
2nd Semester	30	8	22
3rd Semester	30	24	6
4th Semester	30	30	0
5th Semester	29	24	5
6th Semester	31	31	0
7th Semester	29	24	5
8th Semester	31	26	5
<b>TOTAL</b>	<b>240</b>	<b>174</b>	<b>66</b>

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Faculty of Pure and Applied Sciences

## • • • • Department of Chemistry

[www.ucy.ac.cy/chem/en](http://www.ucy.ac.cy/chem/en)

### **CHAIRPERSON**

Nikolaos E. Chronakis

### **VICE-CHAIRPERSON**

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### **ASSISTANT PROFESSORS**

Eftychia Pinakoulaki

### **LECTURERS**

Agapios Agapiou  
Savvas Georgiades



## CHEMISTRY AT THE UNIVERSITY OF CYPRUS

The University of Cyprus has offered Chemistry education since its inception in 1992, when a Chemistry Section was established within the (then) Department of Physical Sciences. The first undergraduate students of Chemistry were enrolled in September 1994 and graduated with a B.Sc. in Chemistry in June 1998. The M.Sc. and Ph.D. programmes in Chemistry were initiated in 1998 and proved quite dynamic, as they earned the University international research recognition for Chemistry. The Chemistry Section evolved into an independent Department in February 2000.

## CHEMISTRY AS A SCIENCE

Chemistry is one of the fundamental natural sciences. Its main areas of interest are the study of transformations of matter through chemical reactions (synthetic chemistry), and the analysis of the chemical structure of matter (analytical chemistry). Chemistry plays a prominent role in many other sciences, such as medicine and the health sciences, the environmental sciences and most branches of engineering. Chemistry is closely interlinked with the other natural sciences, with which it often works cooperatively and is therefore, a key science for modern civilization.

## DEPARTMENT'S OBJECTIVES

The Department aims at producing and promoting scientific knowledge and research in Chemistry, and providing society with highly trained and skilled graduates. Chemistry graduates can be employed by local industry (mainly the chemical industry, plastics, pharmaceuticals, food, beverages, construction materials, detergents, cosmetics, etc.), hi-tech private companies, the public sector and the education sector.

Chemistry is a very broad science with many different branches and a high degree of specialization, which is attained, to a large extent, through postgraduate studies. Most Chemistry graduates continue in postgraduate programmes, as the need for specialization becomes more pronounced every day.

## UNDERGRADUATE PROGRAMMES OF STUDIES

From the academic year 2017-2018 the Chemistry Department offers a new unified Chemistry programme, while students admitted in previous years have been distributed in three parallel chemistry directions, with specialization in (a) Food and Environmental Chemistry, (b) Materials Chemistry and (c) Biological Chemistry. In addition to its standard basic programme(s) of study, the Department of Chemistry offers a Chemistry minor degree to students of other Departments of the University of Cyprus

All programmes are based on ECTS and comprise: (a) Introductory Courses in Chemistry, Physics, Mathematics and Computer Programming (1st and 2nd semester); (b) Basic Courses for the Chemistry degree, such as analytical, inorganic, organic and physical chemistry, and biochemistry (3rd - 6th semester); (c) Courses specific to each of the three directions programme (7th and 8th semester) for students admitted prior to the academic year 2017-2018, while for

students admitted to the new unified Chemistry programme, courses that cover a wide range of modern Chemistry areas are offered in the seventh and eighth semester. To graduate with a B.Sc. in Chemistry, students must acquire a total of 240 ECTS.

At the theoretical level, Chemistry is taught through lectures that are complemented by seminars and problem-solving sessions. Chemistry is by nature an experimental science; therefore, the Department places strong emphasis on Laboratory Courses (eight laboratory courses of 6-7 ECTS each), which are regarded as independent courses, meaning that their grades are not compounded with those of the relevant theoretical courses. To complete a Chemistry degree, the student must also take four university-wide Elective Courses (20 ECTS total) from at least three different Faculties of the University, as stipulated by the University regulations. The student must also acquire 10 ECTS units in foreign language courses. All courses include a written final examination. However, the final grade of a course is calculated based on the student's performance in the final exams, homework, intermediate examination, scientific literature projects, and laboratory reports. There are usually prerequisite courses in a series of related courses (e.g. Inorganic Chemistry I, II and III), where level I must precede level II, etc., and it is not possible to enroll in an advanced level course, without having first performed satisfactorily in the lower level course(s) in the series (see related Table).

All Chemistry programmes cover all the basic Chemistry courses in the first three years of studies. This ensures that all graduates with a B.Sc. in Chemistry will have equal credentials in the job market. The differentiation of the three directions occurs in the fourth year of studies, in which all courses of each programme are different, providing the students with a significant first level of specialization in three important areas of modern Chemistry. However, it must be emphasized that this level of specialization cannot match that offered by a postgraduate degree. In the 4th year of studies of the new unified Chemistry programme, courses that cover a wide range of modern Chemistry areas are offered.

The Diploma Thesis (9 ECTS) is an important feature of the undergraduate programme. During the fourth year of studies, each student works independently for two semesters under the supervision of a member of the academic staff, studying one of the special experimental projects proposed. During the course of their Diploma work, students learn how to work independently, solve laboratory problems, search, study and analyse scientific literature, give seminars to their fellow students in a clear and comprehensive way, and present the results and conclusions of their Thesis work. Although a Diploma Thesis need not contain original research work, students usually work on truly original research related to the research interests of their supervisors.

## MINOR (SECONDARY) DEGREE IN CHEMISTRY

The Minor degree in Chemistry is offered to those students of other departments of the University of Cyprus, who are interested in pursuing academic studies in chemistry. For the

academic year 2010-2011, the Department offered its original minor degree, which was designed to operate in parallel with the original Chemistry programme.

The Minor in Chemistry contains both Mandatory and Elective Courses. Mandatory Courses ensure that, the students enrolling in this programme will obtain a broad view of modern Chemistry, including all its major fields. Elective Courses enable students to focus on the topics that they prefer. The minor degree comprises four different groups of courses:

Group A: 3 Theoretical Courses at level 1. Students must elect 3 of the 5 theoretical Chemistry courses with codes 1xy (x,y are the numbers 0-9).

Group B: 2 Laboratory Courses. Students must elect 2 laboratory courses, one with code 1x0 and one with code 2x0 or 3x0. The lab codes must correspond to the elected theoretical courses of group A, to ensure compatibility between the laboratory courses and the theoretical courses.

Group C: 3 Theoretical Courses at level 2 or 3. The students elect 3 additional theoretical courses compatible to those of group A, with codes 2xy or 3xy. Courses are considered compatible, when they have the same middle number x.

Group D: 2 Electives. Students elect 2-3 additional Chemistry courses, which may be: (a) 4th year Elective Courses or Mandatory Courses with codes 4xy, after obtaining the permission of the teaching staff. (b) Additional courses from Group A (codes 1xy). (c) Additional Laboratory Courses from Group B (codes 2x0 or 3x0). (d) Additional courses from Group C, provided they are compatible with the rest (codes 2xy or 3xy).

## COURSE DESCRIPTIONS

(K) Core Course – Mandatory Course, (E) Elective Course, BC (Biological Chemistry Programme), FEC (Food and Environmental Chemistry Programme), MC (Materials Chemistry Programme)

### CHE 110 Classical Methods of Chemical Analysis Lab I (7 ECTS)

BC(K), FEC(K), MC(K)

Analytical Chemistry LAB I is a laboratory course focusing on classical methods of chemical analysis. The main goal of the experiments is to introduce students to analytical chemical work and way of thinking, and to provide skills in the qualitative and quantitative analysis of chemical species in laboratory and real samples. The experiments cover the following analytical methods: a) Wet Chemistry Techniques of Qualitative Analysis, b) Classical Chromatographic Techniques (separation of species by paper and thin layer chromatography, and column ion exchange chromatography), c) Gravimetry, d) Volumetry (acid-base, complexometric, argentometric and redox titrations) and e) the Determination of Nitrogen by Kjeldahl.

### CHE 111 Chemical Equilibria and Classical Methods of Analysis I (6 ECTS)

BC(K), FEC(K), MC(K)

The course covers the following chapters: Introduction, errors and statistical evaluation of analytical data. Errors in chemical analysis. Application of descriptive and inductive methods of statistics to analytical data. Pre-analytical procedures. Classical and modern methods of dissolution and separation. Classical methods of analysis. Chemical equilibrium and analytical chemistry, equilibria in aquatic solutions, activity and pH. Simple and complex protolytes, acid/base titrations indicators and buffer solutions, titration curves, species distribution diagrammes, nonaqueous solutions of protolytes. Complex formation and complexometric titrations, redox reactions and redox titrations, solubility of salts.

### CHE 121 Introductory Chemistry (for Chemists) (6 ECTS)

BC(K), FEC(K), MC(K)

**Atomic Structure:** Hydrogen Atom (the Bohr model, the Schrödinger equation, the principal, azimuthal, magnetic and spin quantum numbers, the atomic orbitals), Polyelectronic Atoms (the Pauli exclusion principle, the Hund's rule, the building – up principle, electronic configuration).

**Periodic table:** Blocks, Periods and Groups, Periodicity of Physical Properties, Trends in Chemical Properties.

**Chemical Bonds and Molecular Structure:** Ionic Bonds, Covalent Bonds, Lewis structure, VSEPR theory, Molecules with multiple bonds, Metallic bond.

**Nomenclature:** Rules for Writing and Naming Inorganic and Metal-Organic Compounds According to IUPAC Conventions.

**Thermodynamics and Equilibrium:** Free Energy, Enthalpy, Entropy, Equilibrium, Stoichiometry, Solution, Chemical Kinetics, Activation Parameters.

**Chemical reactions:** Acid - Base Theories, Chemical Reactions, Energy, Basicity - Acidity, Nucleophilicity - Electrophilicity, Potential Definition, Redox Reactions.

**Applications:** Descriptive Chemistry of the Elements, H<sub>2</sub>SO<sub>4</sub>, NH<sub>3</sub>, Industrial Applications, Environment.

### CHE 122 Inorganic Chemistry I (6 ECTS)

BC(K), FEC(K), MC(K)

Periodic table of the elements, bonds in inorganic compounds, shapes of inorganic compounds, bond polarity, electrical properties of inorganic solids. Crystal structures of metals and simple ionic compounds (NaCl, CsI, CaF<sub>2</sub>, CdI<sub>2</sub>). Basic concepts in crystallography. Thermodynamic properties of inorganic ionic materials. Transition metal elements. Theory of the structure of complexes. The atmosphere energy sources.

### CHE 130 Organic Chemistry Laboratory I (7 ECTS)

BC(K), FEC(K), MC(K)

Separation-Purification Methods: Extraction (separation of organic compound mixtures), recrystallisation, distillation, thin layer chromatography (TLC), column chromatography. Isolation of Natural Products: Isolation of eugenol from cloves, isolation of piperine from pepper. Synthetic-Mechanistic Organic Chemistry: synthesis of piperine. Spectroscopic characterization and comparison with piperine isolated from pepper.

### CHE 131 Organic Chemistry I (6 ECTS)

BC(K), FEC(K), MC(K)

Fundamental concepts (orbitals, hybridization, electronegativity, types of chemical bonds, resonance, Lewis acidity/basicity). Alkanes and cycloalkanes: nomenclature, physical and chemical properties, conformational analysis, 3D-structures, Newman projections. Classes of chemical reactions, reaction mechanisms and energy diagrams. Alkenes: nomenclature, structure, geometric isomerism (E/Z, cis/trans), stability, carbocation formation, preparation of, chemical properties. Alkynes: nomenclature, structure, preparation of, chemical properties. Introduction to organic synthesis and retrosynthetic analysis. Stereochemistry: enantiomers, diastereomers, meso-compounds, racemic mixtures, Fischer projections, R/S nomenclature. Stereochemistry of addition reaction to alkenes. Alkylhalides: structure, preparation of, chemical properties. Nucleophilic substitution (S<sub>N</sub>2, S<sub>N</sub>1). Elimination reactions (E1, E2). Spectroscopy (mass IR, NMR, UV). Conjugated dienes. Diels-Alder cycloaddition.

### CHE 140 Physical Chemistry Laboratory I (7 ECTS)

BC(K), FEC(K), MC(K)

Temperature dependence of the viscosity of liquids. Phase diagram, liquification and critical point. Use of molecular dynamics to study the states of matter. Thermochemistry at constant volume and constant pressure. Chemical equilibria of complexes and indicators. Chemical kinetics: a) Study of a chemical reaction, using volumetric determination of the product, b) Study of a hydrolysis reaction, using spectroscopic determination of the reactant and c) Study of a saponification reaction, using conductivity measurements.

### CHE 141 Physical Chemistry I (6 ECTS)

BC(K), FEC(K), MC(K)

Ideal and real gases. Kinetic theory of gases. Intermolecular forces, elementary theory of the liquid state. Introduction to chemical kinetics. Kinetics and mechanism. Elementary reactions and their orders. Integrated rate laws. Synthetic mechanisms. Internal energy, work and heat. First law of thermodynamics. Thermochemistry. Thermodynamic and microscopic definition of entropy. Second law of thermodynamics, spontaneous processes and thermal cycles. Entropic calculations in physical and chemical processes. Third law of thermodynamics. Combination of the first and second law and free energies.

### CHE 210 Laboratory of Instrumental Chemical Analysis I (6 ECTS)

BC(K), FEC(K), MC(K)

In this course, instrumental qualitative and quantitative analysis experiments are performed. These experiments include spectrometric methods (Ultraviolet – Visible Spectrometry, Infrared Spectrometry, Atomic Emission Spectrometry), chromatographic methods (Gas Chromatography, High Performance Liquid Chromatography), and electrochemical methods (potentiometry, conductivity).

### CHE 221 Inorganic Chemistry II (6 ECTS)

BC(K), FEC(K), MC(K)

**Bonding Models in Inorganic Chemistry:** Ionic Bond (Lattice Energy, the Predictive power of thermochemical calculations on ionic compounds), Covalent Bond (Valence Bond Theory, Molecular Orbital Theory), Electronegativity.

**The structure and Reactivity of Molecules:** The Structure of Molecules, Structure and Hybridization, Experimental Determination of Molecular Structure, Some Simple Reactions of Covalently Bonded Molecules.

**Chemical Forces:** Intermolecular Distances and Atomic Radii, Types of Chemical Forces, Hydrogen Bonding, Effects of Chemical Forces. Acid – Base Chemistry: Acid – Base Concepts, Measures of Acid – Base Strength, Hard and Soft Acids and Bases.

**Chemistry in Aqueous and Nonaqueous Solvents:** Water, Nonaqueous Solvents, Molten Salts, Electrode Potentials and Electromotive Forces.

**Inorganic Chains, Rings, Cages and Clusters:** Chains, Rings, Cages, Boron Cage Compounds, Metal Clusters.

### CHE 230 Organic Chemistry Laboratory II (7 ECTS)

BC(K), FEC(K), MC(K)

**Risk Evaluation:** R/S risk and safety codes; COSHH compliance. Unknown Identification: purification; spectroscopic analysis and identification. **Laboratory Techniques:** azeotropic distillation use of Dean-Stark apparatus, vacuum distillation; vacuum sublimation; short path distillation; microscale; multi-step synthesis; thin layer chromatography (TLC), spectroscopic analysis NMR, IR and UV. **Project Synthesis:** searching the literature, chemical abstracts; planning and costing a 3-step synthesis; evaluating and choosing best synthetic route based on cost and safety. **Report Writing:** journal format; use of word processing and chemical drawing software. Review of the scientific literature on a topic related to Organic Chemistry.

### CHE 231 Organic Chemistry II (6 ECTS)

BC(K), FEC(K), MC(K)

NMR Spectroscopy, Benzene and Aromaticity, Benzene Chemistry, Alcohols, Thiols, Ethers, Epoxides, Sulfoxides, Carbonyl Chemistry (Aldehydes, Ketones, Carboxylic Acids and their Derivatives), Amines, Arylamines, Phenols, Pericyclic Reactions (Cycloadditions, Electrocyclic Reactions, Sigmatropic Rearrangements).



**CHE 241 Quantum Chemistry (6 ECTS)**

BC(K), FEC(K), MC(K)

- The need for a quantum consideration of matter. The Rutherford Model, Atomic Emission spectrum of Hydrogen, Rydberg formula, Photoelectric effect. The Bohr atomic model. Wave nature of matter, De Broglie wavelength. Heisenberg uncertainty principle. Schrödinger equation.
- Probabilities, expectation values and operators. Postulates of Quantum Mechanics. Quantum particle-in-a-box. Classic harmonic oscillator. Quantum harmonic oscillator. Tunneling effects. Three-dimensional quantum chemical systems. Rigid Rotor. Spherical harmonics, angular momentum, hydrogen atom.
- Complex quantum systems. Helium atom. Electron spin. Pauli exclusion principle, many-electron atoms. Molecules and Born- Oppenheimer approximation. Valence Bond Theory. Molecular Orbital Theory. Bonding and antibonding orbitals, homonuclear and heteronuclear diatomic molecules. Polyatomic molecules, hybridisation states.

**CHE 242 Physical Chemistry II (6 ECTS)**

BC(K), FEC(K), MC(K)

Introduction to chemical thermodynamics. Chemical potential, fugacity and activity of gases, liquids and mixtures. Solutions and mixtures, colligative properties. Thermodynamic and practical equilibrium constants. Phase equilibria of pure substances. Vapor pressure. Phase transitions. Gibbs's phase rule. Vapor-liquid equilibria, distillation, azeotropic mixtures. Electrolyte solutions, ionic strength. Electrolytic conductance. Galvanic cells, standard electrode potentials and Nernst equation. Electrolysis and transference numbers. Unimolecular reactions. Activated complex theory, dynamic potential surfaces and reaction dynamics. Liquid state reactions. Catalytic and enzymatic reactions.

**CHE 311 Laboratory of Instrumental Chemical Analysis II (6 ECTS)**

BC(K), FEC(K), MC(K)

Instrumental Analysis Methods: Classification, Analytical Instrumentation, Characteristics of Methods, Figures of Merit, Signal-to-Noise Ratio, Sources and Elimination Methods of Noise, Signal-to-Noise Enhancement. Atomic Spectroscopy: Atomic Absorption Spectrometry, Atomic Fluorescence Spectrometry, Atomic Emission Spectrometry, Atomic Mass Spectrometry, Atomic X-Ray Spectrometry. Molecular Spectroscopy: Ultraviolet-Visible Molecular Absorption Spectrometry, Molecular Luminescence Spectrometry, Infrared Spectrometry, Raman Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Molecular Mass Spectrometry. Electroanalytical Methods: Potentiometry, Coulometry, Voltammetry. Separation Methods: Gas Chromatography, High Performance Liquid Chromatography, Capillary Electrophoresis, Capillary Electrochromatography.

**CHE 320 Inorganic Chemistry Laboratory (7 ECTS)**

BC(K), FEC(K), MC(K)

1. Main group chemistry. Synthesis and characterization of chlorotribenzyltin(IV) and tri(propoxy)borate.
  2. Vanadium Chemistry: Oxidation states, complexes, oxo and non oxo vanadium molecules. Synthesis of bis(acetylacetonate)vanadyl(IV) and tris(catecholate vanadium(IV) dis(triethylammonium).
  3. Cobalt Chemistry: Synthesis, structure and kinetic stability. Synthesis of tris(ethylenediamino)cobalt(III) chloride,  $[(+)\text{Co(en)}_3]\text{I}_3\cdot\text{H}_2\text{O}$  and  $[(+)\text{Co(en)}_3]\text{I}_3\cdot\text{H}_2\text{O}$ .
  4. Copper Chemistry: Dinuclear metal complexes, bioinorganic chemistry of copper. Synthesis of aqueous copper(II) acetate, cis- and trans-bis(glycinate)(hydrate)-copper(II).
  5. Nickel Chemistry: Structure of Nickel complexes, electronic states. Synthesis of bis(hydrate)bis(acetylacetonate)nickel(II),  $\text{H}_2\text{Salen}$  and  $[\text{Ni}(\text{salen})]$ .
- Characterization of the compounds:
- a)  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{119}\text{Sn}$ ,  $^{11}\text{B}$  NMR spectroscopy 1, 3, 5
  - b) UV-Vis spectroscopy 2, 3, 4, 5
  - c) IR spectroscopy 2, 4, 5
  - d) Magnetic Measurements 2, 4, 5
  - e) Cyclic Voltammetry 2, 5
  - f) Polarimetry 3
  - g) Conductivity 3
  - h) Melting point 1

**CHE 321 Inorganic Chemistry III. Bond Theory, Structure and Reactivity of Metal Complexes (6 ECTS)**

BC(K), FEC(K), MC(K)

1. Coordination Chemistry, Bond, Spectroscopy, Magnetism (Bond theories of metal complexes, infra red and visible spectroscopy of metal complexes, magnetic properties of Metal complexes).
2. Structure (Structure and isomerism of metallorganic molecules with coordination number 1-12, enantiomeric complexes, experimental distinction of enantiomers, chelate effect, macrocyclic ligands, selective binding, template synthesis).
3. Reactions, Kinetics and mechanisms (Substitution reactions of square planar compounds and octahedral complexes, effect of crystal field stabilization to the kinetics of metal complexes, acid and base catalysis, fluxional complexes, redox reactions, inner-outer sphere mechanisms, electron transfer, mixed valence compounds, light induced catalytic reactions, applications).
4. Descriptive chemistry of transition metal, lanthanides and actinides (Periodic table, oxidation states-electrochemistry, chemistry of the various oxidation states of the metal ions, chemistry of the heavier transition metals, bonding and structure of lanthanides and

actinides, coordination chemistry, visible spectroscopy and magnetic properties of lanthanides and actinides, transuranium elements).

### **CHE 331 Organic Chemistry III (6 ECTS)**

BC(K), FEC(K), MC(K)

Heterocycles: furan, thiophene, pyrrole, pyridine, quinoline, isoquinoline and indole. Organic Free Radical Chemistry: mechanisms; functional group manipulation; C-C bond formation; Alicyclic Chemistry: ring strain; cycloalkanes (3-7) and larger (8-14 membered) rings. Non-Aromatic Heterocycles and Natural Products: small (3 & 4) and medium (5 & 6-membered) rings, steroids,  $\beta$ -lactams, carbohydrates; alkaloids, stereoelectronic, kinetic & thermodynamic control, NGP, phenolic oxidative coupling. B, Si & Sn: hydroboration, silylenethers, Shapiro reaction, electrophilic substitution with allylic rearrangement, Crotylsilanes, Brook, Sila-Pummerer & Si-Baeyer-Villiger rearrangement, hydrostannylation, Crotylstannanes, Sn-Li exchange. Pd(0/II), Co & Fe: applications in synthesis; C-C bond formation via transmetallation, cyclisation, carbonyl/alkene insertions. Mixed Mechanism Workshop.

### **CHE 332 Bioorganic Chemistry (6 ECTS)**

BC(K)

Combinatorial architecture of biooligomers (proteins, nucleic acids, sugars, lipids, terpenes) and principles of biosynthesis. Chemical synthesis of peptides and oligonucleotides on solid support. Combinatorial synthesis of small molecules and high-throughput screening techniques for lead compound discovery. Gene expression and relation to normal and disease-state, regulation of gene expression by transcription factors and by small molecules. Post-translational modifications of proteins and their roles. Principles of signal transduction, molecular basis of disease (with emphasis on cancer) and interference with drugs and biological probes. Case studies of activators and inhibitors of signal transducing enzymes. Chemical modification of biomolecular structures. Ligation and labeling methods. Recognition of cellular components by natural and artificial receptors, methods for synthetic preparation of receptors and applications. Biological catalysis for chemical reactions: Enzymes, nucleic acids, RNA as catalyst, ribozymes, Diels-Alderases.

### **CHE 340 Physical Chemistry Laboratory II (7 ECTS)**

BC(K), FEC(K), MC(K)

Dissociation constants for weak bases, partitioning equilibria, complex stability constants, vapor-point elevation, freezing-point depression. Vapor-liquid equilibria. Study of a ternary liquid mixture. Solubilisation of pollutants in micelles of surface active substances. Surface tension of solutions and mixtures. Electrochemical measurements with galvanic cells and their applications. Transference numbers and electrolysis. Stabilisation of CdS nanoparticles with polyelectrolytes and their optical properties. Atomic spectra with a diffraction spectrograph. Vibration-rotation spectra using IR-spectrometry. Quantum calculations on conjugated systems of  $\pi$ -electrons using

Hyperchem. Oxidation mechanism of ascorbic acid. Enzymatic hydrolysis of esters. Study of fast reaction kinetics using the stopped-flow method. Photochemical kinetics using flash photolysis. Fluorescence energy transfer between dye molecules. Fluorescence studies of dye binding to DNA.

### **CHE 341 Physical Chemistry III (6 ECTS)**

BC(K), FEC(K), MC(K)

Electromagnetic radiation and interaction with atoms and molecules. Molecular symmetry and group theory. Quantum mechanical description of the rigid rotor. Rotational spectroscopy of diatomic and polyatomic molecules. Selection rules. Quantum mechanical description of the harmonic oscillator. Vibrational spectroscopy of diatomic and polyatomic molecules. Vibrational-rotational spectra. Raman spectroscopy. Electronic spectroscopy: Pauli's exclusion principle and Hund's rules. Franck-Condon principle. Fluorescence. Phosphorescence. Introduction to lasers and applications. Nuclear magnetic resonance spectroscopy (NMR).

### **CHE 404 Undergraduate Diploma Thesis in Biological Chemistry I (3 ECTS)**

BC(C)

The Diploma Thesis work is mandatory for the Bachelor degree in Biological Chemistry. In the first part of the diploma thesis work, students begin working on a given subject under the supervision of a faculty member. Emphasis is placed on scientific literature search and on mastering methods and techniques in the laboratory. At the end of the semester, the student's performance is assessed by the supervisor and is marked as "satisfactory" or "unsatisfactory".

In the latter case, the student must register in CHE 404 for one additional semester. The final grade for the Diploma Thesis is given after completion of CHE 405.

### **CHE 405 Undergraduate Diploma Thesis in Biological Chemistry II (6 ECTS)**

BC(C)

The course is a continuation of CHE 404. In this part, students continue to obtain their experimental data, and discuss and present the data in diagrams, figures and tables. At the end of CHE 405, students write a report on their Diploma Thesis work. In addition, students give an oral presentation of their work, before an examination committee, and must successfully answer questions about their work.

### **CHE 406 Undergraduate Diploma Thesis in Food and Environmental Chemistry I (3 ECTS)**

FEC(C)

The Diploma Thesis work is mandatory for the Bachelor degree in Food and Environmental Chemistry. In the first part of the diploma thesis work, students begin working on a given subject under the supervision of a faculty member. Emphasis is placed on scientific literature

search and on mastering methods and techniques in the laboratory. At the end of semester, the student's performance is assessed by the supervisor and is marked as "satisfactory" or "unsatisfactory". In the latter case, the student must register in CHE 406 for one additional semester. The final grade for the Diploma Thesis is given after completion of CHE 407.

#### **CHE 407 Undergraduate Diploma Thesis in Food and Environmental Chemistry II (6 ECTS)**

FEC(C)

The course is a continuation of CHE 406. In this part, students continue to obtain their experimental data, and discuss and present the data in diagrams, figures and tables. At the end of CHE 407, students write a report on their Diploma Thesis work. In addition, students give an oral presentation of their work, before an examination committee, and must successfully answer questions about their work.

#### **CHE 408 Undergraduate Diploma Thesis in Materials Chemistry I (3 ECTS)**

MC(C)

The Diploma Thesis work is mandatory for the Bachelor degree in Materials Chemistry. In the first part of the diploma thesis work, students begin working on a given subject under the supervision of a faculty member. Emphasis is placed on scientific literature search and on mastering methods and techniques in the laboratory. At the end of semester, the student's performance is assessed by the supervisor and is marked as "satisfactory" or "unsatisfactory".

In the latter case, the student must register in CHE 408 for one additional semester. The final grade for the Diploma Thesis is given after completion of CHE 409.

#### **CHE 409 Undergraduate Diploma Thesis in Materials Chemistry II (6 ECTS)**

MC(C)

The course is a continuation of CHE 408. In this part, students continue to obtain their experimental data, and discuss and present the data in diagrams, figures and tables. At the end of CHE 409, students write a report on their Diploma Thesis work. In addition, students give an oral presentation of their work, before an examination committee, and must successfully answer questions about their work.

#### **CHE 410 Food and Environmental Chemistry Laboratory (5 ECTS)**

FEC(K)

Laboratory experiments focusing on the analysis of food constituents (carbohydrates, lipids, proteins, enzymes, inorganic components, vitamins), on the qualitative and quantitative determination of chemical additives, toxic and dangerous substances in food, on the determination of pollutants in water. Methods: Gas Chromatography, Liquid

Chromatography, Mass Spectroscopy, UV-vis spectroscopy, FTIR spectroscopy.

#### **CHE 411 Food Chemistry (6 ECTS)**

FEC(K)

Introduction. Water: structure and properties, water activity. Carbohydrates: monosaccharides, oligosaccharides, polysaccharides, non-enzymatic browning (Maillard reaction, caramelization). Amino acids, peptides and proteins: structure and properties of proteins, effects of food processing and storage on proteins, major proteins in milk, meat, cereals. Enzymes: enzyme kinetics, enzymatic browning, enzyme reactions and their utilization in food industry. Lipids, fats and oils: classification, physical and chemical properties, lipid peroxidation, hydrogenation and interesterification. Vitamins: Fat soluble and water soluble vitamins. Minerals. Flavor and aroma substances. Colors. Desirable food constituents and food additives: preservatives, antioxidants, emulsifiers, stabilizers. Non-desirable food constituents and food contamination. Novel foods.

#### **CHE 412 Environmental Chemistry (6 ECTS)**

FEC(K)

The course deals with the fate of chemical substances in the environment and the environmental impact of anthropogenic activities. Chapters included are: Geochemical and elemental cycles. Atmospheric phenomena and related chemical reactions. Aquatic systems and water/wastewater management. Soil chemistry and waste deposition in geological formations. Chemistry and toxicity of toxic metals and xenobiotics. Analysis of environmental samples.

#### **CHE 415 Bioanalytical Chemistry (6 ECTS)**

BC(K), FEC(K)

The main purpose of this course is to describe the basic principles and the applications of instrumental and molecular methods in the study of biomolecules. Emphasis will be placed on the following topics: a) Biomolecules: amino acids, peptides, proteins, nucleic acids, b) Application of liquid chromatography for bioanalysis: ion exchange, affinity and size exclusion chromatography, c) Methods and applications of gel and capillary electrophoresis in biomolecules, d) Enzyme kinetics, e) Mass spectrometry of biomolecules: MALDI-TOF/MS, ESI/MS, f) Techniques and applications of UV/Vis, IR and Raman spectroscopy in biomolecules., g) Molecular Recognition: bioassays (antibodies, antigens, immunoassays), biosensors, DNA-arrays, h) Nucleic Acids: amplification (polymerase chain reaction) and sequencing and, i) Protein sequencing.

#### **CHE 418 Methods of Analysis and Quality Control of Food (6 ECTS)**

FEC(K)

Detection and quantification of food components (proteins, lipids, carbohydrates, vitamins, additives, minerals, enzymes, moisture, etc.), with analytical methods. Chromatography.



Electrochemical measurements. Electrophoresis. Spectrometric techniques. Quality and quality control of food. Quality management systems.

#### **CHE 421 Organometallic Chemistry (6 ECTS)**

MC(K)

General Introduction to Organometallic Chemistry: Definition, Historical Background, Basic Principles, Molecular Orbital Theory and the 18 – Electron Rule, Counting Electrons in Complexes, the Most Important Applications of Organometallic Compounds.

Classification and Reactivity of Organometallic Metal Complexes: Metal Carbonyl Complexes, Carbonyl Hydride Complexes, Nitrosyl Complexes, Dinitrogen Complexes, Metal -Alkyls, -Carbenes, -Carbynes and -Carbides Complexes, Nonaromatic Alkene and Alkyne Complexes, Allyl and Pentadienyl Complexes, Metallocenes, Arene Complexes, Substitution Reactions, Oxidative Addition, Reductive Elimination, Insertion and Elimination.

Catalysis by Organometallic Compounds: Alkene hydrogenation, Tolman Catalytic Loops, Synthesis Gas, Hydroformylation, Monsanto Acetic Acid Process, the Wacker Process, Synthetic Gasoline, Ziegler – Natta Catalysis, Immobilized Homogeneous Catalysts, a Photodehydrogenation Catalyst "Platinum Pop".

#### **CHE 422 Surface and Solid State Chemistry (6 ECTS)**

MC(K)

Introduction: goal, definition of a surface, definition of porosity. Adsorption. Solid-liquid and liquid-gas interface. Adsorption isotherms. Sorption. Solid-gas interface. BET theory and its extensions. Characterization and measurement of porosity. Characterization methods for solid surfaces: spectroscopy, photoelectronic spectroscopy, thermogravimetric analysis, adsorption methods, diffraction methods. Basic groups of porous materials and their applications. Ceramics, mesoporous series.

#### **CHE 423 Bioinorganic Chemistry (6 ECTS)**

BC(K)

General Information on Bioinorganic Chemistry: Definition, Historical Background, Basic Principles, Biological Ligands for Metal Ions.

The most Important Biological Functions of Metal Ions: Metalloporphyrins and Respiration, Dioxygen Binding, Transport and Utilization, Binding of Dioxygen to Myoglobin, Physiology of Myoglobin and Hemoglobin, Structure and Function of Hemoglobin, Other Biological Dioxygen Carriers, Photosynthesis, Chlorophyll and the Photosynthetic Reaction Center, Water Oxidizing Center, Enzymes, Vitamin B12 and the B12 Coenzymes, Nitrogen Fixation.

The Biochemistry of Iron: Ferredoxins and Rubredoxins, Availability of Iron, Competition for Iron, Selective Binding of Iron, Siderophores, Iron Storage Proteins.

More Functions of Metal Ions in Biological Systems: Trace elements in Biological Systems, Biochemistry of the

Nonmetals, Environmental Chemistry of Metal Ions, Toxicity, Medicinal Chemistry, Chelate Therapy, Antibiotics and Related Compounds.

#### **CHE 430 Biochemistry Laboratory (5 ECTS)**

BC(K)

Protein purification (methods: centrifugation, liquid chromatography, electrophoresis), protein quantification, study of enzyme kinetics (activity and kinetic measurements, inhibitors).

#### **CHE 431 Biochemistry (6 ECTS)**

BC(K), FEC(K), MC(K)

Introduction. Biochemical evolution. Protein structure and function: primary, secondary, tertiary and quaternary structure, protein folding. DNA and RNA: nucleic acid structure and the flow of genetic information. Myoglobin and hemoglobin. Enzymes: basic concepts and kinetics, the Michaelis-Menten model. Mechanisms of enzymatic catalysis. Regulation of enzymes: allosteric regulation, isoenzymes, covalent regulation, proteolytic activation. Carbohydrates. Lipids and cell membranes. Metabolism: basic concepts and design. Glycolysis and gluconeogenesis. The citric acid cycle. Oxidative phosphorylation.

#### **CHE 436 Introduction to Medicinal Chemistry (6 ECTS)**

BC(K)

Introduction to drugs and their biological targets (proteins, enzymes, receptors, nucleic acids, cell membranes, building blocks). Types of intermolecular interactions. Biologically active compound discovery from natural sources and from synthetic compound libraries. Overview of drug development process: Finding a lead, optimizing target interactions and access to target. Pharmacodynamics and pharmacokinetics. Quantitative structureactivity relationships (QSAR). Major classes of drugs: Antibacterial agents and their targets, mechanisms of action. Antiviral agents, principles of antiviral action, structure and life cycle of representative viruses. Anti-cancer agents, causes of cancer, targets for anti-cancer therapies. Cholinergics, anticholinergics, anticholinesterases, receptors in the peripheral nervous system. Drugs acting on the adrenergic nervous system and adrenergic receptors. Opioid analgesics and opioid receptors.

#### **CHE 437 Introduction to Computational Chemistry (6 ECTS)**

BC(K), FEC(K)

A general overview of computational methods and their applications in the prediction of physicochemical properties of molecules. The lectures are supplemented by laboratory work, where students are trained to use a quantum chemical software. The course covers force fields, semi-empirical, DFT and ab initio methods, the most common basis sets and qualitative molecular orbital theory. Problems include the use of quantum chemical software for structural optimization, IR spectrum prediction and visualization of eigenvectors, computation of thermo-

chemical properties, 3-D modelling of molecules and visualization of molecular orbitals. An introduction to qualitative theoretical models for relating experimental data, with computed quantities, is also provided.

#### **CHE 438 Supramolecular Chemistry (6 ECTS)**

MC(K)

Definition and Development of Supramolecular Chemistry. Host–Guest Chemistry. Energetics of Supramolecular Complexes: Experimental Methods. Templates and Self Assembly. Molecular Devices. Fullerenes and Carbon Nanotubes.

#### **CHE 440 Chemical Technology Laboratory (5 ECTS)**

MC(K)

Analysis of continuous industrial distillation process: Theory - Laboratory exercise. Chemical reactors (batch and continuous stirred tank reactors): Theory - Applications - Laboratory exercise. Desalination process of water: Theory of reverse osmosis - Laboratory exercise.

#### **CHE 441 Chemical Technology (6 ECTS)**

MC(K)

Mass balances under steady-state and non-steady-state conditions – Applications. Energy balances under steady-state and non-steady-state conditions – Applications of mass and energy balances. Heat transfer under steady-state and non-steady-state conditions – Heat Exchangers. Chemical reactors – Theory/Applications. Fractional distillation – Theory/Applications. Process analysis of sulphuric acid production. Process analysis of cement production.

#### **CHE 443 Polymer Chemistry (6 ECTS)**

MC(K)

Introduction, nomenclature and uses. Condensation polymerisation. Free-radical polymerisation. Ionic polymerisation. Photolytic, electrolytic and radiation polymerisations. Polymerisation of cyclic organic compounds. Modification reactions of synthetic polymers. Biological polymers and their chemical reactions. Polymers containing inorganic elements. Relationship between macromolecular structure and properties. Electroactive polymers. Biomedical applications of synthetic polymers.

#### **CHE 445 Catalysis (6 ECTS)**

MC(K)

Concepts and terms describing the catalytic phenomenon and the causes of its origin. Concepts and terms related to the texture and structure of supported metal catalysts. Basic concepts related to the chemical adsorption and desorption processes associated with a solid surface - Temperature programmed desorption techniques. Preparation and characterisation methods of supported catalysts. Environmental catalysis: Modern depollution technologies (air and water pollution). Mechanisms of heterogeneous catalytic reactions.

#### **CHE 446 Special Topics in Molecular Spectroscopy (6 ECTS)**

BC(K), MC(K)

Raman Spectroscopy: basic theory: origin of Raman spectra, selection rules, depolarisation ratios, symmetry and selection rules, Resonance Raman spectra, calculation of force constants via normal coordinate analysis, band assignments, Experimental setups and considerations. Special techniques of Raman spectroscopy: highpressure Raman spectroscopy, Raman microscopy, surface-enhanced Raman spectroscopy, time-resolved Raman spectroscopy, matrixisolation Raman spectroscopy, 2D correlation Raman spectroscopy, Raman imaging spectrometry, non-linear Raman spectroscopy. Applications of Raman: spectroscopy in various chemical fields, materials, analytical chemistry, biochemistry and medicine, industry, environment.

### **Courses offered to other Departments**

#### **CHE 021 Introductory Chemistry**

(for Biologists and Physicists) (6 ECTS)

1. Chemistry and the other sciences. The scientific method. Material systems, their properties and models. Physical and chemical phenomena.
2. Chemical composition of matter. Atoms, molecules, compounds, mixtures, solutions. Dalton's atomic theory. Internal atomic structure. Chemical terminology, isotopes, ions, atomic mass units. The mole. Introduction to the periodic table of the elements. Ionic and molecular compounds. Nomenclature and properties of ionic compounds.
3. Simple chemical mol-based calculations. Chemical equations and stoichiometry. Limiting reagent, reaction yield.
4. Aqueous solution of ionic and molecular compounds. Water as a solvent. Solution concentration units. Dilution, mixing, titration. Reaction types in aqueous ionic solutions. Metathesis reactions and precipitations. Acids and bases and their reactions. Redox reaction, oxidation number.
5. The road to quantum theory. Bohr model of the H atom. Hydrogen atom, atomic orbitals, polyelectronic atoms, electronic configuration, periodic table, atom size, ionization energy, electron affinity, oxidation state, charge.
6. Chemical Bonds and Molecular Structure. Ionic and covalent bonds, electron coupling, electronegativity, molecular structure, Lewis structures, VSEPR theory, multiple bonds.
7. Thermodynamics. Internal energy, heat and work. First law. Thermochemistry, reaction enthalpies, formation enthalpies. Intermolecular forces. Solids, liquids, gases and phase diagrams. Solutions, solubilities, colligative properties. Chemical equilibrium and the equilibrium constant, applications to reactions in gases and liquids. Acid-base reaction, pH scale. Spontaneous reactions, reversible reactions. Second law, entropy and free

energy. Relation between free energy and equilibrium constant of a reaction.

8. Chemical kinetics, reaction rate, order and mechanism. Kinetic equation, Arrhenius equation, activation energy, catalysis and catalysts.

#### **CHE 022 Introductory Chemistry for Medicine ( 6 ECTS)**

Scientific context of Chemistry, its relation to the biological sciences and medicine. Physical, chemical and biological phenomena. Atomic and molecular structure of matter. Basic chemical nomenclature. Stoichiometry, the concept of the mole, simple chemical calculations in chemical reactions. Chemistry in solution, ionic and covalent compounds, water as a solvent, water in biological systems, types of chemical reactions in solution. Concentration scales in solutions, dilution, titration.

Electronic structure of atoms. Bohr model, electronic configuration and the periodic table of the elements. Periodicity of element properties, simple description of selected elements, elements important in biology and medicine. Chemical bonding. Lewis symbols, ionic and covalent bond, multiple bonds, concepts of hybridization and resonance. Building-up organic molecules from bonding concepts. Electronegativity, bond polarity, molecular polarity, intermolecular forces, h-bonding, hydrophobicity scales, solubility and interactions of molecules in biological systems.

Energy in molecular systems, thermodynamic laws, thermochemistry, enthalpy, entropy and free energy of reactions. Phases of matter, liquids and vapor pressure, osmotic pressure of solutions, osmosis in biology and medicine, chemical equilibrium concepts. Acids and bases, pH scale.

Organic chemistry, the chemistry of carbon. Simple nomenclature, active groups on biological molecules, isomerism and chirality and their applications to drugs. Simple organic chemical reactions of major groups, applications to health sciences. Biological macromolecules, their structural, physicochemical and reactivity properties. Elements of analytical chemistry for the detection and quantification of drugs and molecules of biological significance.

#### **CHE 030 Organic Chemistry Lab for Students of Biology (6 ECTS)**

Techniques: Melting point. Boiling point. Simple and fractional distillation. Steam distillation for isolating Eugenol from cloves. Recrystallization of benzoic acid and caffeine. Extraction of salicylic acid from aqueous solution and determination of partition coefficient. Separation of mixture components by extraction. Thin-layer chromatography (TLC) – TLC analysis of analgesic drugs. Reaction mechanisms: Reactivity of alkyl halides under SN1 and SN2 conditions. Synthesis: Synthesis  $\alpha,\beta$ -unsaturated ketones with crossed aldol condensation. Nitration of methyl benzoate. Photochemical reduction of benzophenone. Synthesis and bioassay of Sulfarilamide.

#### **CHE 031 Organic Chemistry for Students of Biology (6 ECTS)**

Basic concepts: orbitals, hybridization, electronegativity, types of chemical bonding, classification of reagents, reactive intermediates. Hydrocarbons: alkanes, alkenes, alkynes, cycloalkanes, benzene. Alcohols, ethers, phenols. Nitro compounds, amines, diazonium salts. Aldehydes, ketones, carboxylic acids and their derivatives. Esters of organic and inorganic acids. Hydrogen bonding in organic compounds. Stereochemistry: enantiomers, diastereomers, geometric isomers. Carbohydrates. Amino acids and proteins. Nucleic acids and nucleotides. Lipids. Stereochemistry and mechanisms of enzymatic reactions.



	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
<b>BIOLOGICAL CHEMISTRY FOOD AND ENVIRONMENTAL CHEMISTRY MATERIALS CHEMISTRY</b>		<b>BIOLOGICAL CHEMISTRY FOOD AND ENVIRONMENTAL CHEMISTRY MATERIALS CHEMISTRY</b>	
MAS 018 Introductory Mathematics I	5	CHE 311 Analytical Chemistry II	6
PHY 102 Physics for Chemists	6	CHE 331 Organic Chemistry III	6
CHE 110 Analytical Chemistry Lab I	7	CHE 340 Physical Chemistry Laboratory II	7
CHE 111 Analytical Chemistry I	6	CHE 341 Physical Chemistry III	6
CHE 121 Introduction to Chemistry (for Chemists)	6	Elective Course I	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
<b>BIOLOGICAL CHEMISTRY FOOD AND ENVIRONMENTAL CHEMISTRY MATERIALS CHEMISTRY</b>		<b>BIOLOGICAL CHEMISTRY</b>	
CS 003 Computer Science and Information Systems	6	CHE 210 Analytical Chemistry Laboratory II	6
MAS 019 Introductory Mathematics II	5	CHE 320 Inorganic Chemistry Laboratory	7
CHE 122 Inorganic Chemistry I	6	CHE 321 Inorganic Chemistry III: Bond Theory, Structure and Reactivity of Metal Complexes	6
CHE 130 Organic Chemistry Laboratory I	7	CHE 332 Biorganic Chemistry	6
CHE 131 Organic Chemistry I	6	Elective Course II	5
<b>TOTAL</b>	<b>30</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd YEAR</b>		<b>FOOD AND ENVIRONMENTAL CHEMISTRY</b>	
<b>3rd Semester</b>		CHE 210 Analytical Chemistry Laboratory II	6
<b>BIOLOGICAL CHEMISTRY FOOD AND ENVIRONMENTAL CHEMISTRY MATERIALS CHEMISTRY</b>		CHE 320 Inorganic Chemistry Laboratory	7
CHE 140 Physical Chemistry Laboratory I	7	CHE 321 Inorganic Chemistry III: Bond Theory, Structure and Reactivity of Metal Complexes	6
CHE 141 Physical Chemistry I	6	CHE 411 Food Chemistry	6
CHE 241 Quantum Chemistry	6	Elective Course II	5
CHE 431 Biochemistry	6	<b>TOTAL</b>	<b>30</b>
Foreign Language Course I	5	<b>MATERIALS CHEMISTRY</b>	
<b>TOTAL</b>	<b>30</b>	CHE 210 Analytical Chemistry Laboratory II	6
<b>4th Semester</b>		CHE 320 Inorganic Chemistry Laboratory	7
<b>BIOLOGICAL CHEMISTRY FOOD AND ENVIRONMENTAL CHEMISTRY MATERIALS CHEMISTRY</b>		CHE 321 Inorganic Chemistry III: Bond Theory, Structure and Reactivity of Metal Complexes	6
CHE 221 Inorganic Chemistry II	6	CHE 441 Chemical Technology	6
CHE 230 Organic Chemistry Laboratory II	7	Elective Course II	5
CHE 231 Organic Chemistry II	6	<b>TOTAL</b>	<b>30</b>
CHE 242 Physical Chemistry II	6		
Foreign Language Course II	5		
<b>TOTAL</b>	<b>30</b>		

	ECTS		ECTS
<b>4th YEAR</b>		<b>8th Semester</b>	
<b>7th Semester</b>		<b>BIOLOGICAL CHEMISTRY</b>	
<b>BIOLOGICAL CHEMISTRY</b>		CHE 405 Diploma Thesis in Biological Chemistry II	6
CHE 404 Diploma Thesis in Biological Chemistry I	3	CHE 415 Bioanalytical Chemistry	6
CHE 423 Bioinorganic Chemistry	6	CHE 430 Biochemistry Laboratory	5
CHE 436 Introduction to Medicinal Chemistry	6	BIO 371 Microbiology	6
CHE 437 Introduction to Computational Chemistry	6	CHE 446 Special Topics in Molecular Spectroscopy	6
Elective Course III	5	<b>TOTAL</b>	<b>29</b>
Elective Course IV	5		
<b>TOTAL</b>	<b>31</b>	<b>FOOD AND ENVIRONMENTAL CHEMISTRY</b>	
<b>FOOD AND ENVIRONMENTAL CHEMISTRY</b>		CHE 407 Diploma Thesis in Food Chemistry and Environmental Chemistry II	6
CHE 406 Diploma Thesis in Food Chemistry and Environmental Chemistry I	3	CHE 410 Food and Environmental Chemistry Laboratory	5
CHE 412 Environmental Chemistry	6	CHE 415 Bioanalytical Chemistry	6
CHE 423 Bioinorganic Chemistry	6	CHE 418 Methods of Analysis and Quality Control of Food	6
CHE 437 Introduction to Computational Chemistry	6	CHE 446 Special Topics in Molecular Spectroscopy	6
Elective Course III	5	<b>TOTAL</b>	<b>29</b>
Elective Course IV	5		
<b>TOTAL</b>	<b>31</b>	<b>MATERIALS CHEMISTRY</b>	
<b>MATERIALS CHEMISTRY</b>		CHE 409 Diploma Thesis in Materials Chemistry II	6
CHE 408 Diploma Thesis in Materials Chemistry I	3	CHE 421 Organometallic Chemistry	6
CHE 422 Surface Chemistry	6	CHE 443 Polymer Chemistry	6
CHE 438 Supramolecular Chemistry	6	CHE 445 Catalysis	6
CHE 440 Chemical Technology Laboratory	5	CHE 446 Special Topics in Molecular Spectroscopy	6
Elective Course III	5	<b>TOTAL</b>	<b>30</b>
Elective Course IV	5	<b>GRAND TOTAL</b>	<b>240</b>
<b>TOTAL</b>	<b>30</b>		

## CHEMISTRY PROGRAMME WITH EMPHASIS IN BIOLOGICAL CHEMISTRY

Course Code	Course Name	ECTS		ECTS	Prerequisite/Grade
MAS 018	Introductory Mathematics I	5			-
PHY 102	Physics for Chemists	6			-
CHE 110	Analytical Chemistry Laboratory I	7	1st Semester		-
CHE 111	Analytical Chemistry I	6			-
CHE 121	Introductory Chemistry (for Chemists)	6		30	
CS 003	Computer Science and Information Systems	6			-
MAS 019	Introductory Mathematics II	5			-
CHE 122	Inorganic Chemistry I	6	2nd Semester		-
CHE 130	Organic Chemistry Laboratory I	7			-
CHE 131	Organic Chemistry I	6		30	
CHE 140	Physical Chemistry I Laboratory I	7			CHE 110/5
CHE 141	Physical Chemistry I	6			PHY 102/4
CHE 241	Quantum Chemistry	6			MAS 018/4, MAS 01/4
CHE 431	Biochemistry I	6	3rd Semester		CHE 121/4
Foreign Language Course I	Foreign Language Course I	5		30	
CHE 221	Inorganic Chemistry II	6			CHE 122/4
CHE 230	Organic Chemistry Laboratory II	7			CHE 130/5
CHE 231	Organic Chemistry II	6	4th Semester		CHE 131/4
CHE 242	Physical Chemistry II	6			CHE141/4
Foreign Language Course II	Foreign Language Course II	5		30	
CHE 311	Analytical Chemistry II	6			CHE 111/4
CHE 331	Organic Chemistry III	6			CHE 231/4
CHE 340	Physical Chemistry Laboratory II	7			CHE 242/4
CHE 341	Physical Chemistry III	6	5th Semester		CHE 241/4
Elective Course I	Elective Course I	5		30	-
CHE 210	Analytical Chemistry Laboratory II	6			CHE 110/5, CHE 311/4
CHE 320	Inorganic Chemistry Laboratory	7			CHE 122/4, CHE 221/4
CHE 321	Inorganic Chemistry III. Bond Theory, Structure and Reactivity of Metal Complexes	6	6th Semester		CHE 221/4
CHE 332	Biorganic Chemistry	6			CHE 231/4
Elective Course II	Elective Course II	5		30	-



## CHEMISTRY PROGRAMME WITH EMPHASIS IN BIOLOGICAL CHEMISTRY

Course Code	Course Name	ECTS		ECTS	Prerequisite/Grade
CHE 404	Diploma Thesis in Biological Chemistry I	3			180-18 ECTS
CHE 423	Bioinorganic Chemistry	6			CHE 221/4
CHE 437	Introduction to Computational Chemistry	6	7th Semester		CHE 231/4, CHE 241/4
CHE 436	Introduction to Medicinal Chemistry	6			CHE 431/4
Elective Course III	Elective Course III	5			-
Elective Course IV	Elective Course IV	5		31	-
CHE 405	Diploma Thesis in Biological Chemistry II	6			180-18 ECTS
CHE 430	Biochemistry Laboratory	5			CHE 431/4
CHE 415	Bioanalytical Chemistry	6	8th Semester		CHE 431/4
BIO 371	Introduction to Microbiology	6			CHE 431/4
CHE 446	Special Topics in Molecular Spectroscopy	6		29	CHE 241/4
<b>GRAND TOTAL</b>				<b>240</b>	



Faculty of Pure and Applied Sciences

## • • • • Department of Computer Science

[www.ucy.ac.cy/cs/en](http://www.ucy.ac.cy/cs/en)

### **CHAIRPERSON**

Elpida Keravnou-Papaeliou

### **VICE-CHAIRPERSON**

Christos Christodoulou

### **PROFESSORS**

Marios D. Dikaiakos  
Yannis Dimopoulos  
Paraskevas Evripidou  
Antonis C. Kakas  
Marios Mavronicolas  
George A. Papadopoulos  
Elpida Keravnou-Papailiou  
Constantinos S. Pattichis  
Andreas Pitsillides  
George Samaras  
Christos N. Schizas

### **ASSOCIATE PROFESSORS**

Christos Christodoulou  
Yiorgos Chrysanthou  
Chryssis Georgiou  
Anna Philippou  
Yiannos Sazeides  
Pedro Trancoso

### **ASSISTANT PROFESSORS**

Elias Athanasopoulos  
Georgia Kapitsaki  
George Pallis  
Vasos Vassiliou  
Demetris Zeinalipour

## THE ROLE OF COMPUTER SCIENCE AND THE OBJECTIVES OF THE DEPARTMENT

Computer Science addresses a variety of issues, including enhancement of the range of problems that can be efficiently solved using computers, as well as the generation, maintenance and optimization of software and hardware systems for designing high performance computers. Computer Science also focuses on questions relevant to reasoning, conversing and planning, modelling of the functioning of the brain, as well as the roles of language and logic in the solution of practical problems.

In the light of this general perspective, the primary objectives of the Department are to:

- (a) Participate in international research in Computer Science.
- (b) Disseminate, through its teaching and international activities, knowledge relevant to all aspects of Computer Science.
- (c) Promote the effective application of Information Technology within local industry and economy.

The aim of the Department of Computer Science is to prepare graduates to rise to positions of responsibility, as Information Technology professionals or in academia, and who will actively promote the development and application of new ideas and technologies. The Department attaches particular significance to its close relationship with local industry; graduates are seen as a convenient vehicle for an ongoing dialogue with industry.

### PROGRAMME OF STUDIES

The undergraduate programme of studies leads to the award of a Bachelor's Degree in Computer Science. The Department's course material is conceptually divided into four main areas of study:

- (a) The "Theory" area is concerned with the foundations of Computer Science: theory and models of computation and the design and analysis of algorithms.
- (b) The "Computing Systems" area is concerned with hardware and software systems and elaborates on the concepts of parallel and embedded systems.
- (c) The "Problem Solving" area aims at developing algorithmic thinking, with emphasis on principles of programming and algorithm design.
- (d) The "Applications" area aims at bringing together the knowledge and skills acquired in the other three areas, for the development of useful applications to solve real problems, such as the communication between networked computers.

In more detail, the programme includes Compulsory "Core" Courses, Restricted Elective Courses (which are offered by the Department and allow students to specialize in a specific area of Computer Science or acquire knowledge that spans a wider scientific spectrum) and Elective Courses, that are offered by other departments. Some of these courses have prerequisites. Since the academic year 2016/2017, the Department of Computer Science is offering the following

specializations (existing students follow the previously offered programme of study):

- Computer Networks
- Fundamentals of Computer Science
- Big Data and Internet Computing
- Artificial Intelligence
- Software Engineering
- Real World Computing
- Digital and Embedded Systems

Each specialization is linked to a number of courses. The aim of the specializations is to give students the possibility and the motivation to focus on a specific area of Computer Science, via the Elective Courses and an Individual Diploma Project, called Undergraduate Thesis Project. If a student selects at least three Elective Courses from the courses indicated for each specialization and undertakes an undergraduate thesis project from the same specialization, then the respective specialization will be indicated in his/her transcripts.

### MINOR PROGRAMME OF STUDIES

The Minor programme in Computer Science requires the successful completion of eight courses, which must include the courses CS 121, CS 131, CS 133, CS 221, CS 231, CS 343 and two Restricted Elective Courses from the undergraduate programme of studies.

### MINOR PROGRAMME IN BIOMECHANICS

The Minor programme in Biomechanics requires the successful completion of ten courses with at least 60 ECTS as a total. It has to be within 8 to 12 semesters of study.

### MAIN FIELDS OF ACTIVITY

Computer Science is a relatively new but rapidly evolving subject, and these developments contribute significantly to the quality and content of the curriculum. One of the main objectives of the Department is the development of programmes of direct relevance to Cyprus, in collaboration with local industry and research institutions.

Within this framework, the Department's academic staff focuses on three major areas as follows:

- Artificial Intelligence and its Applications, where the following topics are covered: Computational Logic; Computational Intelligence; Neuroinformatics; Intelligent Systems and Applications; Knowledge Engineering and Expert Systems; Knowledge Representation and Reasoning.
- Computer Systems and Applications, which includes the following topics: Computer Architecture; Computer Graphics; Learning Technologies, Open and Distance Learning; Medical Informatics and Health Telematics; Multimedia Software Engineering; Theory and Practice of Software Engineering.
- Parallel and Distributed Processing Systems and Networks, which includes the following topics: Distributed and Parallel Computing and Networks; Distributed, Real-Time and



Multimedia Systems; Formal Methods for Specification and Verification of Concurrent Systems; Integrated Service Networks; Internet Technologies and Systems; Mobile and Transactional Computing; Parallel and Distributed Systems; Parallel Processing and Architectures; Software Engineering for Distributed Information Systems.

## COURSE DESCRIPTIONS

### CS 111 Discrete Structures in Computer Science and Computation (7.5 ECTS)

Foundations: sets and functions. Logic: Propositional Logic: basics of Predicate Logic. Mathematical Reasoning: methods of proof, induction. Counting: basics of counting, pigeonhole principle, permutations and combinations. Relations: properties and applications, equivalence relations, partial orders. Graphs: basic concepts.

### CS 121 Digital Systems (7.5 ECTS)

Principles of design and construction of digital electronic systems and computers. Representation of data with binary sequences. Data storage and processing by electronic digital circuits. Consolidation of theoretical knowledge through practical exercises in the design and construction of digital circuits in the laboratory for Digital Systems Design and Microprocessors.

### CS 131 Programming Principles (7.5 ECTS)

Presentation of the software development process and introduction to the basic principles of programming and program design using the Java language. Global overview of the Java language with emphasis on built-in and abstract data types, control structures, functions, modular programming and recursion.

### CS 133 Object-Oriented Programming (7.5 ECTS)

Development of object-oriented way of thinking and capabilities to apply it to solving complex problems. Problem-solving and programming using object-oriented methodologies. Abstraction and Information Hiding. Libraries and reuse. Object-oriented design. Inheritance. Polymorphism. Interfaces. Inner classes in Java. Exceptions. Input/Output. Threads and Concurrency in Java. Collections. Advanced topics: Annotations, Networking, Serialization.

### CS 202 Explorations into Computer Science (3 ECTS)

Weekly lecturers/seminars that cover a broad spectrum of Computer Science and its basic areas, starting from its birth and reaching its modern evolutions. Revolutionary ideas for the foundation and development of Computer Science.

### CS 211 Theory of Computation (7.5 ECTS)

Formal methods of computation based on machines, grammars and languages: finite automata vs. regular languages; pushdown automata vs. context-free grammars; Turing machines vs. unrestricted grammars. Models of computation equivalent to Turing machines and Church's Thesis. Computability and Uncomputability. Introduction to Theory of Computational Complexity with emphasis on the Theory of NP-completeness.

### CS 221 Computer Organization (7.5 ECTS)

Introduction to computer organization and architecture. Types of instructions, coding of instructions, Arithmetic and Logic Unit. Basic principles of the organization of the main functional units of a computer system at machine level: Central Processing Unit (CPU), memory, and Input/Output. Interfacing CPU and peripheral units. Programming in assembly language for MIPS R2000/R3000 and Intel Pentium.

### CS 222 Operating Systems (7.5 ECTS)

Introduction, history and evolution of operating systems. General structure, operations and characteristics of an operating system. Concurrency. Process management. Scheduling and dispatch. Real and virtual memory management. I/O management and disk scheduling. File management. Protection, security and reliability.

### CS 231 Data Structures and Algorithms (7.5 ECTS)

Study of data structures for the organization and efficient processing of data. Linear and non-linear data structures. Hashing techniques. Issues of memory management. Sorting Algorithms. Graph Algorithms. Introduction to algorithm design techniques. Analysis of the average and worst-case complexity of algorithms.

### CS 232 Programming Techniques and Tools (7.5 ECTS)

Introduction to C for Programmers: types x86/x64, loops, selections, expressions, arrays, functions, IO, basic program organization. Advanced programming constructs: program anatomy and processes, memory and addresses (pointers, pointers and arrays, strings and examples), structures, unions and enumerations. Examples and applications of memory management with linear and non-linear programming data structures. Advanced Compilation Topics and Tools: preprocessor directives, compiling multiple files with makefiles, static and dynamic linking of object files, error handling, static and dynamic code analysis. Low-level programming: binary operators, binary files and hexdump. Basic commands of the UNIX operating system, redirection and pipes, access control and basic filters.

### CS236 Algorithms and Complexity (7.5 ECTS)

Topics in the design and analysis of efficient algorithms and their complexity. Significant algorithms in Graph Theory, Algebra, Geometry, Number Theory and Combinatorics. General algorithmic techniques (e.g. divide-and-conquer, backtracking, dynamic programming). Randomized, Parameterized and Approximation algorithms. Fast Fourier Transform. Inherent lower bounds on problem complexity.

### CS 324 Communications and Networks (7.5 ECTS)

Introductory course in Computer Networks. The goal is the understanding and use of concepts related to fundamental issues in Communication Networks, using the Internet as an example. Deals with Networking layers, such as the application, transport, network, and data link layers. Open systems and internetworking. Networking technologies

including wired and wireless Local Area Networks and network topologies. Algorithms, including routing and congestion control. Introduction to quality of service (QoS) and multimedia applications. Laboratory session includes practical exercises with wireshark and simulations using OPNET.

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**CS 325 Parallel Processing (7.5 ECTS)**

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The entire spectrum of parallel machines as appearing in Flynn's classification: SISD, SIMD, MISD, MIMD. The main approaches for design and operation of multiprocessor systems. Conventional and non-conventional machines (Data-flow and reduction). Parallel programming approaches: (1) Automatic-parallelizing compilers, (2) Extending serial languages with parallelizing constructs, (3) parallel languages for Functional Programming. Special emphasis on parallel architectures and parallel programming.

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**CS 326 System Security (7.5 ECTS)**

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Introduction to applied cryptography (symmetric, asymmetric, and stream ciphers, cryptographic hash functions, cryptographic protocols) and security models (CIA), discussion of software vulnerabilities (buffer overflows, integer overflows, use-after-free, dangling pointers), demonstration of attack techniques (code injection, code reuse), defenses (non-executable pages, stack canaries, code randomization, CFI, CPI), side channels, mobile security (Android, iOS), web security (cross-site scripting, CSRF, clickjacking, phishing), special topics (botnets, DDoS, spam, security economics), privacy and anonymity (anonymous communication, TOR).

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**CS 341 Artificial Intelligence (7.5 ECTS)**

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Problem solving techniques in Artificial Intelligence. Knowledge Representation Formalisms (logic, associative networks, frames, production rules). Expert Systems Technology. First and Second Generation Architectures for Expert Systems. Knowledge Engineering. Intelligent Agents. Multi-Agent Systems.

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**CS 342 Databases (7.5 ECTS)**

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Introduction to Databases. Organization and proper management of large quantities of data for use in applications. Database models such as the entity-relation model, the relational model, the network model and the hierarchical model.

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**CS 343 Software Engineering (7.5 ECTS)**

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Methods, tools, and procedures for the development and maintenance of large-scale software systems. Existing life-cycle models (e.g. waterfall model). Introduction to Agile development. Requirements analysis and specification techniques. Software development methodologies. Unified Modelling Language (UML) and supported static and dynamic diagrams. Code transformation. Practical experience with CASE tools for modeling data and procedures (ArgoUML, StarUML). Prototyping for Web applications (HTML, CSS). Architectural Design patterns (Model View Controller, etc.). Software verification and

validation. Unit testing and frameworks (JUnit, etc.). CASE tools. Project planning and management.

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**CS 344 Internet Technologies (7.5 ECTS)**

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Topics of Internet and World-Wide Web technologies, with an emphasis on WWW applications and Internet programming. The foundations of WWW applications including hypertext, navigation in hyperspace, hypertext usability, information overload, markup languages and methodologies of WWW application design. System issues related to Internet programming and performance: protocols, servers, WWW interactivity, Internet-based distributed systems.

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**CS 411 Programming Languages Semantics (7.5 ECTS)**

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Basic types of programming languages semantics. procedural, declarative and axiomatic. Relations between basic types. Common semantics and their application in programming languages. Introduction to Field Theory and to Information Systems in the framework of programming language semantics.

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**CS 412 Logic in Computer Science (7.5 ECTS)**

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Propositional Logic Syntax, Semantics, Normal Forms, Decision Procedures, Proof Theory, Compactness and Resolution. Predicate Logic: Syntax and Semantics, Proof Theory Soundness and Completeness and Resolution. Logic Programming. Programming Language Semantics and Verification. Linear and Branching Temporal Logics: Syntax, Semantics, and model-checking algorithms.

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**CS 413 Computational Geometry (7.5 ECTS)**

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Convex hull in the plane: basic properties and algorithms from computing it. Arrangements of line segments: computing intersections, representing subdivisions, computing an overlay. Arrangements of lines: incremental construction algorithm. The Art Gallery Problem: partition into monotone polygons, monotone polygon triangulation, simple polygon triangulation. Geometric searching: kd-trees, range trees, fractional cascading. Point location: basic properties of the trapezoid map, algorithm for constructing map and search structure, point location algorithm. Voronoi diagram: basic properties and algorithms for computing it. Delaunay triangulation: basic properties, incremental algorithm.

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**CS 420 Computer Architecture (7.5 ECTS)**

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Introduction to the state-of-the-art uniprocessor, high performance computer architecture. Emphasis on quantitative analysis and cost/performance trade-offs in the design of the basic units of a processor: instruction set, pipelining, memory system and input/output systems. Qualitative analysis of real machines and their performance data.

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**CS 421 System Programming (7.5 ECTS)**

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Main concepts of System Programming, Introductory and Advanced UNIX commands, System utilities and stream editors (awk, sed), Advanced Shell programming with an emphasis on Bash, Low-Level I/O in C, Files and Filesystem,

Processes: Environment, Control and Signals, Interprocess Communication (IPC) with an emphasis on Pipes and Named Pipes (FIFO) in C, XSI IPC (Semaphores, Shared Memory and Message Queues) in C, Network IPC (TCP Sockets) and the client/server model in C, Multithreading in C, Performance evaluation (profiling). Issues in system security and system engineering, Systems Programming in Windows (threads, processes, IPC, sockets and Powershell programming), Scripting Languages: Perl, PHP, Python, TCL/TK.

#### **CS 422 Advanced Networks (7.5 ECTS)**

Introduction to Computer Networks and the Internet, Network Layer - IPv6, Routing, Multicast Routing. TCP operation, Congestion Control, Performance Analysis. Multimedia Networking Applications. Realtime services and protocols, Quality of Service, MPLS, Traffic Engineering, QoS Routing, Mobile and Wireless Networks, Issues in Security for Computer Networks. Introduction to advanced research topics (e.g. Internet of things, wireless sensor networks, VANETs, 5G).

#### **CS 423 Network and Information Security (7.5 ECTS)**

Introduction to Security Threats and Attacks, Cryptographic Techniques (encryption, cryptanalysis, authentication, confidentiality), identification and authentication (Kerberos, PKI), Internet Application security protocols ((PGP, SSL/TLS), Network security (Firewalls, IDS), Defending against threats on endsystems, Checking of networks and applications for vulnerabilities, Other issues in network and information security (privacy, ethics, legal framework).

#### **CS 424 Digital Signal Processing (7.5 ECTS)**

Discrete signals and systems, sampling of signals, frequency analysis of discrete systems and signals, z-transform, Fourier Transform, Discrete Fourier Transform, and Fast Fourier Transform, digital filters, application examples.

#### **CS 426 Computer Graphics (7.5 ECTS)**

Scene construction, scene hierarchies, camera specification, projections of primitives, clipping, visible surface determination, polygon rasterisation (z-buffer), texture mapping, local and global illumination, shadows, ray tracing, radiosity, real-time acceleration techniques.

#### **CS 427 Mobile Computer Networks (7.5 ECTS)**

Wireless environment, Interference and other problems in wireless communications, Architectures and technologies of wireless networks and wireless communication, Wireless MAC protocols, Wireless Local Area Networks (WLAN), Mobility Management Protocols at the Network layer and at higher layers (transport, application), New network technologies (ad-hoc, sensor, vehicular networks), Open research issues and challenges.

#### **CS 428 Internet of Things: Programming and Applications (7.5 ECTS)**

Programming of embedded systems. Introduction to the Internet of Things. Introduction to the mobile processors of ARM for embedded systems. Interruptions and memory

consumption. Programming for embedded and mobile systems. Mobile computing. Architecture of mobile processors of ARM. Programming in smartphones and applications. Network connectivity: Bluetooth. Cloud Computing. Connectivity on the cloud.

#### **CS 429 Theory and Practice of Compilers (7.5 ECTS)**

Fundamental principles of compiler design. Relation of translators to formal languages and automata theory. Lexical, syntactic and semantic analysis, code generation and optimization, etc. Practical exercises using lex and yacc.

#### **CS 431 Synthesis of Parallel Algorithms (7.5 ECTS)**

Introduction to parallel computing. Complexity and efficiency measurements of parallel algorithms. Parallel computing models. Basic techniques for the design of parallel algorithms. Efficient parallel algorithms in Combinatorics, Graph Theory, and Matrix Theory. Complexity analysis of algorithms on the Parallel Random Access Machine (PRAM). Comparison between various models of computation. Advanced topics (fault-tolerance, atomicity, synchronization, computational limitations of PRAM).

#### **CS 432 Distributed Algorithms (7.5 ECTS)**

Formal models of distributed computing: shared memory versus message passing, determinism versus randomization, concepts of synchronism, asynchrony and real-time. Design and analysis of distributed algorithms and impossibility/improbability results for fundamental problems such as mutual exclusion, consensus, synchronization, leader election, construction of minimum spanning trees. Fault tolerance: Byzantine generals, wait-free algorithms, fault degrees. Formal methods for proving correctness of distributed algorithms. Advanced topics. Special emphasis throughout the course on lower and upper bounds on time and memory.

#### **CS 433 Constraint Programming and Satisfaction (7.5 ECTS)**

Definition of constraint satisfaction problems. Constraint representation and complexity. Various forms of consistency. Backtracking and look-ahead techniques. Intelligent backtracking and condition for solution finding without backtracking. Heuristic and local methods for solution searching. Available commercial products. Study of problems from different application domains, their modeling and the complexity of various algorithms solving them.

#### **CS 434 Logic Programming and Artificial Intelligence (7.5 ECTS)**

Basic principles of Logic Programming and implementation using the language Prolog. Relation of Logic Programming to modern considerations regarding Artificial Intelligence. Solving application problems drawn from the fields of Artificial Intelligence and the Semantic Web, making use of Logic Programming and Constraint Logic Programming.



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**CS 435 Human Computer Interaction (7.5 ECTS)**

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Analysis of the human as a computer system user (knowledge models, graphical animation, cognitive models). Interactive technologies (input-output devices, window environments, systems for collaborative support, virtual reality). Methodologies for the design of interactive systems.

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**CS 441 Advanced Software Engineering (7.5 ECTS)**

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Contemporary software engineering methodologies, such as agile techniques (e.g. Scrum, extreme programming), as well as programming techniques (e.g. aspect-oriented programming). Special characteristics and some important software engineering frameworks. Distributed Systems. Embedded Systems. Legacy Systems. Service-Oriented Computing. Project Management.

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**CS 442 Computational Learning Systems (7.5 ECTS)**

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Introduction to Pattern Recognition, Multilayered Neural Networks and backpropagation learning algorithm, Recurrent Neural Networks, Reinforcement Learning, Hopfield Networks & Boltzmann Machines, Radial Basis Functions, Self-Organising Maps. Survey of the developments in artificial intelligence, machine learning, expert systems, cognitive science, robotics and artificial neural networks, which contributed to the development of the theory of learning systems.

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**CS 443 Software Reuse (7.5 ECTS)**

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Levels of reuse. Component-based development and composition. Best practices for reuse. Evolution of reuse. Software repositories. Search and retrieval. Design patterns. Object-oriented programming standards. Open source software. Open source licensing and legal issues. Organization policies and open-source based development. Outsourcing. Model-Driven Engineering principles. Service-Oriented Computing. Aspect-Oriented Programming.

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**CS 444 Computational Intelligent Systems (7.5 ECTS)**

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Evolutionary Computing. Genetic Algorithms. Artificial Neural Networks. Fuzzy Systems. Artificial Life. Computational Neuroscience/Neuroinformatics; Hodgkin & Huxley and Integrate-and-Fire neuron models; Neural Coding; Hebbian Learning and Synaptic Plasticity; introduction to cognitive science. Development and Implementation of Computational Intelligence Systems.

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**CS 445 Digital Image Processing (7.5 ECTS)**

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Binary Image Representation. Image Histogram and Point Operations. Discrete Fourier Transform. Linear Image Filtering. Non Linear Image Filtering Pipelining. Image Compression. Image Analysis I. Image Analysis II. Digital Video Processing.

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**CS 446 Advanced Topics in Databases (7.5 ECTS)**

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Theoretical approach to logical and physical design of databases. Algorithms for logical and physical design of databases. Primary and secondary indexing techniques. Advanced query processing and query optimization. Query

parallelism. Concurrency control and recovery, integrity and security of data. Distributed databases and introductory concepts distributed transaction processing involving multiple and heterogeneous databases. Problems of interfacing a database with software.

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**CS447 Computer Vision (7.5 ECTS)**

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Basic concepts and methodologies relating to the subject of Computer Vision. Image information, image processing, feature extraction. Image segmentation, clustering, multiple-image processing, case studies.

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**CS 448 Data Mining on the Web (7.5 ECTS)**

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Refers to the automatic discovery of interesting and useful patterns from the data associated with the usage, content, and the linkage structure of Web resources. It is one of the most popular areas in computing and information systems due to its direct applications in e-commerce, information retrieval/filtering, Web personalization, and recommender systems. Examining techniques from data mining to extract useful knowledge from Web data. Detailed overview of the data mining process and techniques, specifically those that are most relevant to Web mining. Map-Reduce framework, Web data clustering, classification, association rules, recommendation systems, link analysis, social networks and Web advertising.

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**CS 449 Professional Practice in Software Engineering (7.5 ECTS)**

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Undertake and carrying out to completion a significant software project by small student groups (of about 2-6 students each). All phases in the development of software. Some of the specific projects come from the industrial sector. Version control systems (SVN and GitHub). Testing. Software system analysis through software metrics. Specialized issues depending on the project nature (e.g., deployment on web servers, GUI tools and frameworks, etc.).

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**CS 481 Software Engineering for Software as a Service (7.5 ECTS)**

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Tools and Integrated Development Environments. Use of agile methodologies. Version control systems. Software systems for Software as a Service. Test-driven development (Cucumber). User-centric design. Design patterns, refactoring and deployment. Opens source software management. Pair programming.

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**CS 482 Software Validation, Verification and Quality (7.5 ECTS)**

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Basic concepts and terminology for validation and verification, reviews, inspections, control (parts, system combination, regression, acceptance, coverage criteria), control of specific categories of software systems, analyzing problems and documentation. Basic principles of quality factors and quality characteristics of software, methodologies, tools, quality procedures, quality standards, models and quality metrics, quality software production process, quality plan, organize quality assurance process.



### CS 483 Software Analysis, Modelling and Design (7.5 ECTS)

Fundamental concepts of software modeling (principles, conditions, properties), modeling languages, virtual models, model types. Early analysis (consistency, sufficiency, accuracy, quality). The role of models in the development and the connection with software development methodologies. Model-driven engineering. The role of software architecture in the software development lifecycle (user needs, design, implementation). The architectural design of a software system. Architectural representation.

### CS 495 Special Issues in Computer Science: Computational Complexity (7.5 ECTS)

Basic concepts of computational problems and algorithms. Algorithm models (e.g. Turing machine, logical circuit, RAM machine). Time and space complexity. Reduction. P, NP and co-NP classes. Theory of NP Completeness. P versus NP problem. Space classes NL, co-NL, L and PSPACE: their relations and their complete problems. Full search problems and TFNP class. PPAD and PLS classes: their relations, their relative classes and their complete problems. Probabilistic classes (e.g. BPP, RP, ZPP). Polynomial Hierarchy and high classes (e.g. EXP and NEXP).

### Courses offered to other Departments

These courses are offered to students of other departments. The content of such courses is suitably determined, so that students of other disciplines may appreciate the significance of Computer Science, its relationship to other disciplines, and the potential benefits it offers. Each of the courses for other departments carries 5, 6 or 7 ECTS. The courses may be offered every semester or in parallel classes, depending on the needs and capabilities.

### CS 001 Introduction to Computer Science (6 ECTS)

Basic understanding of computer science concepts. Introduction to the 'modern' research trends of the computer science field and the various applications of Computer Science. This course aims to make students appreciate the potentials of informatics and especially the web in their working environment. Students will also become aware of internet safety and malicious software and how they can protect themselves from these dangers. Students will get familiar with various tools and software that are considered vital for their academic and professional career. The following topics are covered: Internet safety and malicious software, social networking, introduction to Web 2.0, search engines, social networking, citation management tools.

### CS 002 Introduction to Computer Science (5 ECTS)

Fundamentals of Computer Science, the main historical events which have contributed to its development, and the possibilities it offers. Basic constituent elements of Computer Science, methods for making it valuable to other sciences, and applications. Practical experience with

application packages and the UNIX Environment. Basic principles of Programming in a Fourth Generation Language.

### CS 003 Computer Science and Information Systems (6 ECTS)

Basic understanding of computer science concepts. Introduce the students to the 'modern' research trends of the computer science field and the various applications of Computer Science. Students will also become aware of internet safety and malicious software and how they can protect themselves from these dangers. Students will get familiar with various tools and software considered vital for their academic and professional career. The course will cover the following topics: Internet safety and malicious software, social networking, introduction to Web 2.0, search engines, introduction to cloud computing, databases, web design, advanced excel (excel statistics and economical formulas), data visualization, social networking.

### CS 011 Introduction to Information Society (6 ECTS)

Presentation of the formed framework for Information Society (IST). Basic concepts and Constituent Elements of IST and the wider context for its application. Issues, such as electronic government, telematics, digital business, electronic commerce, telemedicine, etc. Effects of IST on society and economy.

### CS 012 Web Design Technologies (6 ECTS)

Introduction to the Internet and the WWW. Web design and Development Technologies. Web servers and HTTP, HTML, XHTML, CSS, Javascript. User Interface Design Guidelines. Usability evaluation.

### CS 031 Introduction to Programming (7 ECTS)

Computers and Binary Systems. Hardware and Software. Programme Development Cycle, Algorithms and Flow Diagrams. Alphabet and Syntax of FORTRAN. Operators. Selection Structures and Loops. Arrays. Functions and Subroutines. Recursion. Formatted Input-output. Files. Dynamic data.

### CS 032 Introduction to Computer Science and Information Systems (6 ECTS)

Introduction to the Principles of Programming, with emphasis on structured programming, abstraction, and the design, implementation, checking and debugging of modular programmes. Mastering the material through laboratory exercises in the C Programming Language.

### CS 033 Introduction to Programming for Electrical and Computer Engineers (5 ECTS)

Basic Principles of Programming, with emphasis on structured programming, abstraction, design, implementation, checking and debugging of modular programmes. Mastering of the material, through laboratory exercises in a traditional Programming Language such as C.

### **CS 034 Introduction to Programming Principles for Electrical and Computer Engineers (7 ECTS)**

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Introduction to computers and programming languages. Problem solving and programming, problem specification, algorithms and programs, modular programming, program and data abstraction. Software development process, top-down design, problem decomposition, reuse, trial and debugging. Variables, operators and expressions, constants, library usage. Input/Output operations. Procedures, parameters, calls, value or address referral. Program flow, variables' scope, lifecycle of variables/function calls, program's state. Procedural programming, algorithmic structures, memory. Synthesized and enumerated data types, arrays, structures, pointers. Introduction to dynamic memory allocation.

### **CS 035 Data Structures and Algorithms for Electrical and Computer Engineers (7 ECTS)**

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Advanced programming techniques based on the programming language C: Recursion, Structures, Pointers, File and Memory management. Data types and abstract data types. Algorithm complexity analysis: worst-case and average-case analysis. Linear data structures: List, Stack and Queue, using static and dynamic memory allocation methods. Applications of linear data structures. Sorting algorithms: SelectionSort, InsertionSort, MergeSort, QuickSort and BucketSort. Tree data structures: Binary Trees, Binary Search Trees, Balanced Trees, B-trees. Priority Queues and Heaps. Graphs: definitions, data structures, topological sorting algorithms, graph traversal algorithms. Hashing techniques, hash functions and collision resolution techniques.

### **CS 041 e-Health and Medical Informatics (6 ECTS)**

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Introduction to the e-health environment and the appropriate operating framework. Legislative regulatory and social background needed for its materialization. The importance of information technology in extracting useful information from vast medical databases. Applications of computer systems used for the movement of medical knowledge, medical information management, appropriate use of the citizen electronic folder to assist patients and to support a medical decision. Reference to the legal framework that regulates the medical practice, in accordance with European and international directives.

### **CS 042 eHealth Seminars (2 ECTS)**

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Familiarization with the information and communication technologies (ICT) and their practical application in medicine and the medical environment. Students will gain knowledge through eHealth practices adopted in real life by the distinguished presenters of the seminars. Study through videos practices in real environments such as, the intensive care unit, laparoscopic operations, robotic assisted operations, telediagnosis, teleconsultation; appreciation of the importance of medical databases. Understanding of what is coming up in future medicine, considering that ICT will continue to grow and offer its services to the medical profession.

## ANALYTICAL PROGRAMME OF COMPUTER SCIENCE

	ECTS		ECTS
<b>1st Semester</b>		<b>5th Semester</b>	
CS 111 Discrete Structures in Computer Science and Computation	7.5	CS 324 Communications and Networks	7.5
CS 131 Programming Principles	7.5	CS 341 Artificial Intelligence	7.5
MAS 012 Calculus for Computer Science I	5	CS 342 Databases	7.5
LAN 100 General Advanced English	5	CS 343 Software Engineering	7.5
Elective Course	5	<b>6th Semester</b>	
<b>2nd Semester</b>		CS 325 Parallel Processing	7.5
CS 121 Digital Systems	7.5	CS 326 System Security	7.5
CS 133 Object-Oriented Programming	7.5	CS 344 Internet Technologies	7.5
MAS 013 Calculus for Computer Science II	5	Restricted Elective Course	7.5
LAN 111 English for Computer Science	5	<b>7th Semester</b>	
MAS 029 Elements of Linear Algebra	5	CS 400 Diploma Project I	5
<b>3rd Semester</b>		Restricted Elective Course	7.5
CS 221 Computer Organization	7.5	Restricted Elective Course	7.5
CS 231 Data Structures and Algorithms	7.5	BPA 4X Entrepreneurship and Innovation	5
CS232 Programming Techniques and Tools	7.5	Elective Course	5
MAS 055 Introduction to Probability and Statistics	7	<b>8th Semester</b>	
<b>4th Semester</b>		CS 401 Diploma Project II	10
CS 202 Explorations into Computer Science	3	Restricted Elective Course	7.5
CS 211 Theory of Computation	7.5	Restricted Elective Course	7.5
CS 222 Operating Systems	7.5	Elective Course	5
CS 236 Algorithms and Complexity	7.5		
Elective Course	5		

### RESTRICTED ELECTIVE COURSES OF COMPUTER NETWORK SPECIALIZATION

CS 421	System Programming
CS 422	Advanced Networks
CS 423	Network and Information Security
CS 427	Mobile Computer Networks
CS 432	Distributed Algorithms

### RESTRICTED ELECTIVE COURSES OF FUNDAMENTALS OF COMPUTER SCIENCE SPECIALIZATION

CS 411	Programming Languages Semantics
CS 412	Logic in Computer Science
CS 431	Synthesis of Parallel Algorithms
CS 432	Distributed Algorithms
CS 433	Constraint Programming and Satisfaction
CS 495	Special Issues in Computer Science: Computational Complexity

## **RESTRICTED ELECTIVE COURSES OF BIG DATA AND INTERNET COMPUTING SPECIALIZATION**

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CS 421	System Programming
CS 446	Advanced Topics in Databases
CS 448	Data Mining on the Web
CS 481	Software Engineering for Software as a Service
MAS 458	Statistical Data Analysis

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## **RESTRICTED ELECTIVE COURSES FOR SPECIALIZATION OF REAL WORLD COMPUTING**

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CS 426	Computer Graphics
CS 435	Human Computer Interaction
CS 444	Computational Intelligent Systems
CS 445	Digital Image Processing
CS 447	Computer Vision

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## **RESTRICTED ELECTIVE COURSES OF ARTIFICIAL INTELLIGENCE SPECIALIZATION**

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CS 433	Constraint Programming and Satisfaction
CS 434	Logic Programming and Artificial Intelligence
CS 442	Computational Learning Systems
CS 444	Computational Intelligence Systems
CS 445	Digital Image Processing
CS 447	Computer Vision
CS 448	Data Mining on the Web

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## **RESTRICTED ELECTIVE COURSES OF SOFTWARE ENGINEERING SPECIALIZATION**

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CS 421	System Programming
CS 435	Human Computer Interaction
CS 441	Advanced Software Engineering
CS 443	Software Reuse
CS 449	Professional Practice in Software Engineering
CS 481	Software Engineering for Software as a Service

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## **RESTRICTED ELECTIVE COURSES FOR SPECIALIZATION OF DIGITAL AND EMBEDDED SYSTEMS**

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CS 420	Computer Architecture
CS 421	System Programming
CS 428	Internet of Things: Programming and Applications
CS 429	Theory and Practice of Compilers
CS 445	Digital Image Processing
CS 481	Software Engineering for Software as a Service





Faculty of Pure and Applied Sciences

## • • • • Department of Mathematics and Statistics

[www.ucy.ac.cy/mas/en](http://www.ucy.ac.cy/mas/en)

### **CHAIRPERSON**

Georgios Kyriazis

### **VICE-CHAIRPERSON**

Nelia Charalambous

### **PROFESSORS**

Tasos Christofides

Pantelis Damianou

Konstantinos Fokianos

Georgios Georgiou

Andreas Karageorghis

Stamatis Koumandos

Georgios Kyriazis

Efstathios Paparoditis

Theofanis Sapatinas

Yiorgos-Sokratis Smyrlis

Nikos Stylianopoulos

Christodoulos Sophocleous

Alekos Vidras

Christos Xenophontos

### **ASSOCIATE PROFESSORS**

Nelia Charalambous

Cleopatra Christoforou

Emmanouil Milakis

Christos Pallikaros

Evangelia Samiou

Nikos Tziolas

### **ASSISTANT PROFESSORS**

Anastasia Baxevani

Evis Ieronymou

### **LECTURERS**

Sergios Agapiou

## OBJECTIVES

The famous Platonic inscription “let no one ignorant of geometry enter” has been adopted, directly or indirectly, by all universities in the world and, appropriately, the Department of Mathematics and Statistics was one of the departments with which the University of Cyprus commenced its operation in 1992. The primary aim of the Department is the promotion of the Mathematical Sciences through scientific research and teaching,

The achievement of this aim is inextricably linked with the need to produce well-trained scientists, who will contribute to the continuation of the cultural and economic progress of Cyprus. Because of the pivotal role of Mathematics and Statistics in Science, it is necessary to create a department of high calibre.

Important steps in achieving this ambition are the development of links with corresponding institutions abroad and the creation of high-level programmes of study. The undergraduate programme started in September 1992.

The Department of Mathematics and Statistics offers the following undergraduate degree:

- Bachelor in Mathematics and Statistics
- Specialization in Applied Mathematics
- Specialization in Pure Mathematics
- Specialization in Probability/Statistics

## PROGRAMME OF STUDY

The curriculum is divided into four levels and six groups. Level 101-199 corresponds mainly to courses of the first year of studies, level 201-299 corresponds mainly to courses of the second year of studies, level 301-399 corresponds mainly to courses of the third year of studies, and finally, level 401-499 corresponds mainly to courses of the fourth year of studies. Level 001-099 courses correspond to service courses (Table 3) and are not open to Mathematics or Statistics majors (except MAS 007; see Elective Courses).

The six groups into which the courses are divided correspond approximately to the following areas of Mathematics: Analysis, Algebra, Geometry, Probability/Statistics, Numerical Analysis and Applied Mathematics. The second digit of the course number determines the area of Mathematics that the course belongs to. The characteristic digit (2nd digit of the course number) of the six areas is 0 & 1, 2, 3, 5 & 6, 7 and 8, respectively, and they appear in Table A.

## DEGREE REQUIREMENTS

The Degree in Mathematics and Statistics requires 240 ECTS obtained from the following courses:

### (1) 17 Compulsory Courses for all students

- MAS 101 Calculus I
- MAS 102 Calculus II
- MAS 121 Linear Algebra I
- MAS 122 Linear Algebra II

- MAS 131 Basic Mathematics I
- MAS 132 Basic Mathematics II
- MAS 133 Sets and Algebraic Structures
- MAS 191 Mathematics with computers
- MAS 201 Multivariate Differential calculus
- MAS 202 Multivariate Integral calculus
- MAS 203 Ordinary Differential Equations
- MAS 261 Probability I
- MAS 262 Statistics I
- MAS 271 Numerical Analysis I
- MAS 301 Real Analysis
- MAS 302 Complex variables I
- MAS 331 Classical Differential Geometry

### (2) Compulsory Course from other Departments

Course CS 031 Introduction to Programming (7 ECTS).

### (3) Free Electives from other Departments:

Students are required to take three to five courses from other departments. These courses must belong to at least three different faculties. The Faculty of Pure and Applied Sciences may be one of the faculties (excluding however the courses offered by the Department MAS).

Free electives from the Sports Council and the Language Centre are considered courses of their respective independent faculties. Only one first-level foreign language course may be considered as a free elective, unless the student completes the second-level as well, in which case both levels count.

### (4) Students are required to take two English language courses.

### (5) Restricted Elective Courses within the Department (MAS XXX)

Any course which does not carry a characteristic symbol (see Table A) is a restricted elective course (MASXXX). Any Departmental course within or outside a student's specialization may count as a restricted elective course, provided that the student's specialization requirements have been fulfilled. Moreover, a student may not use the same course to cover multiple requirements of her/his specialization.

### (6) Compulsory Courses according to the areas of specialization:

#### (a) Specialization: Statistics

#### Compulsory Courses within the Department

- MAS 350 Stochastic Processes
- MAS 361 Probability II
- MAS 362 Statistics II
- MAS 451 Linear Models I
- MAS 454 Non-Parametric Statistics

MAS 458 Statistical Data Analysis

MAS 321 Introduction to Algebra or One Course from the list MAS (Pure) A or One Course from the list MAS (Pure) B.

### (b) Specialization: Pure Mathematics

#### Compulsory Courses from other Departments

PHYXXX

#### Compulsory Courses within the Departments

MAS 321 - Introduction to Algebra

One Course from the list MAS(Pure)A

One Course from the list MAS(Pure)B

Two Courses from the list MAS(Statistics)

### b) Specialization: Applied Mathematics

#### Compulsory Courses from other Departments

PHY XXX

#### Compulsory Courses within the Departments

Two Courses from the list MAS(Applied)A

Two Courses from the list MAS(Applied)B

Two Courses from the list MAS(Statistics)

MAS 321 - Introduction to Algebra or One Course from the list MAS(Pure)A or One Course from the list MAS(Pure)B.

#### Lists

MAS(Applied)A = MAS 303 – Partial Differential Equations, MAS 304 – Functional Analysis, MAS371 – Numerical Analysis II

MAS(Applied)B = MAS 403 - Ordinary Differential Equations II, MAS 420 - Approximation Theory, MAS 471 - Numerical Solution of Ordinary Differential Equations, MAS 472 - Numerical Solution of Partial Differential Equations, MAS 473 - Introduction to the Finite Element Method, MAS 481 - Applied Mathematical Analysis, MAS 482 - Classical Mechanics, MAS 483 - Fluid Dynamics

MAS(Pure)A = MAS 303 - Partial Differential Equations, MAS 304 - Functional Analysis, MAS 401 - Measure Theory and Integration, MAS 418 - An Introduction to Fourier Analysis

MAS(Pure)B = MAS 431 - Introduction to Differentiable Manifolds, MAS432 - Introduction to Riemannian Geometry, MAS433 – Topology

MAS(Statistics) = MAS 350 - Stochastic Processes, MAS 361 - Probability II, MAS362 - Statistics II, MAS 451 - Linear Models I, MAS 454 - NonParametric Statistics, MAS 458 - Statistical Data Analysis

#### Notes:

- Choosing a specialization: students choose and state their specialization during their 2nd year of studies (at the beginning of the spring semester). In order to change specialization, a student needs to apply in writing to the Head of Department before the commencement of the semester during which the student desires the change to take effect.
- In exceptional cases, a student in his/her final year may take at most two postgraduate level courses as restricted-elective courses (only one of these two courses can be a seminar), with the approval of both the courses' instructor and the academic advisor. An exceptional case is defined to be a student with at least 8.5 grade point average in the Department's courses. It is understood that the credit units of each course are counted only once.
- A student may complete her/his studies with more than 240 credits, depending on her/his choice of elective courses inside and outside the Department.
- Indicative programmes of study for the Bachelor in Mathematics and Statistics with specialization in Pure Mathematics, Applied Mathematics and Statistics/Probability are given in Tables C1, C2 and C3, respectively.
- Reading courses are not offered at the undergraduate level. Students may enroll in an Independent Study instead.

### MINOR PROGRAMME OF STUDY

The Minor programme in Mathematics is open to all University students, except for students from the Department of Mathematics and Statistics.

According to the University regulations, a minor program consists of courses totaling at least 60 ECTS. The earliest a student can enroll in a minor program is the 3rd semester of her/his studies. The requirements for the minor in Mathematics are the successful completion of eight (8) courses which must include: MAS 101, MAS 102, MAS 121, MAS 131, MAS 261, MAS 262, MAS 271, MAS 007 and one (1) additional course worth 7 ECTS.

### COURSE DESCRIPTIONS

#### MAS 101 Calculus I (8 ECTS)

Fundamental properties of real numbers. Sup and Inf of a set and its basic properties. Sequences, its limits, properties of converging sequences. Subsequences. Nested interval principle. Functions and their limits. Sequential approach to limits of functions. Continuity of functions. Intermediate value theorem and existence of extreme values theorem. Uniform convergence. Derivatives, basic results. Mean value Theorem and its variations. Continuity and derivative of inverse function. Graph of a function. L'Hôpital's Rule.

#### MAS 102 Calculus II (8 ECTS)

##### *Required essential knowledge: MAS 101*

Partitions, upper and lower sums, Riemann integral on a closed interval. Basic existence theorems of integrals.

Computation of volumes and areas. The fundamental theorems of calculus, generalized integrals. Logarithmic and exponential functions. Basic methods of integration, integration by parts, substitution, induction formulas, integration of rational functions. Taylor's formula, computation of Taylor's formula for various basic functions. Approximation of smooth functions by polynomials, the irrationality of  $e$ . Series, comparison test, Cauchy's criterion, ratio test,  $n$ th root test, integral test, absolutely and conditionally convergent series, Leibniz's Theorem for alternating series, Abel's and Dirichlet's criteria, products of series.

#### **MAS 121 Linear Algebra I (8 ECTS)**

The algebra of matrices, invertible matrices. Reduced echelon form of a matrix and linear systems of equations. Vector spaces, base, dimension. Linear maps, matrix of a linear map, change of basis matrix, rank of a matrix. Determinants. The set of solutions of a linear system. Eigenvalues, eigenvectors and eigenspaces.

#### **MAS 122 - Linear Algebra II (8 ECTS)**

Polynomial ring. Characteristic polynomial, diagonalization, applications. Cayley-Hamilton theorem, minimal polynomial. Invariant subspaces, generalized eigenspaces. Primary decomposition theorem. Nilpotent endomorphisms, Jordan canonical form. Inner-product spaces, Gram-Schmidt method. Special matrices and their properties.

#### **MAS 131 Basic Mathematics I (7 ECTS)**

Functions and limits. Differentiation. Applications of differentiation, graphs, optimization problems. Integration (indefinite, definite and improper integrals), techniques of integration. Applications of integration (areas of domains in the plane, volumes of solids, arc lengths of curves and areas of surfaces of revolution). Differential equations. Complex numbers.

#### **MAS 132 Basic Mathematics II (7 ECTS)**

Analytic Geometry in  $\mathbb{R}^2$ : Vectors, inner product, length, distance between points. Equation for a line, tangent, vertical line to a curve. Circles, ellipses, parabolas, hyperbolas. Analytic Geometry in  $\mathbb{R}^3$ : Vectors, algebraic, geometric properties. Inner product, length, distance between points. Equation for a line (parametric-vector, cartesian format), distance of a point to a line. Regions in Euclidean space. Functions: Curves in the plane, regions between curves, curve intersections. Graphs of functions in  $\mathbb{R}^3$ , analytically and implicitly defined. Solids bounded by surfaces and intersections of surfaces. Transformations: Linear transforms, linear independence and geometric interpretation of determinant. Geometric transforms (translation, rotation, reflection, orthogonal transforms). Polar, cylindrical and spherical coordinates and regions defined in these coordinates. Curves: Curve parametrization in  $\mathbb{R}^2$  and  $\mathbb{R}^3$ . Velocity, acceleration and tangent line. Arc length. Differentiation: Partial derivatives of multivariable functions. Tangent plane and linear approximation. Gradient and directional derivative.

Integration: Double integrals over rectangles and general regions of  $\mathbb{R}^2$ .

#### **MAS 133 Sets and Algebraic Structures (7 ECTS)**

Set Theory: Sets, subsets. Set operations, complement, De Morgan's laws, power set. Cartesian product. Relations, equivalence relations (equivalence classes modulo  $m$ , projective space, rational numbers). Venn diagrams. Elements of propositional logic (quantifiers, negation, truth diagrams). Functions: Image of a set, inverse image. Inverse function. Composition of functions, graphs. Sets of functions. Countable sets, uncountable sets. Diagonal procedure. Reductio ad absurdum and Mathematical Induction. Well Ordering Principle and Principle of Mathematical Induction. Examples from Number Theory and other areas of mathematics for understanding the procedure for proving a statement using these methods. Number Theory: Divisibility. Greatest common factor and least common multiple. Euclidean algorithm. Fundamental Theorem of Arithmetic. Applications to polynomials. Introduction to Algebraic Structures: Binary operations. Closure of operations. Properties of closed operations. Examples (composition of functions, matrix multiplication, inverse, congruence classes). Subgroups, groups (examples from cyclic groups (complex unit roots), symmetric group). The group  $(\mathbb{Z}_n, +)$  as a quotient. Rings, fields and solving first order equations  $ax = b$ .

#### **MAS 191 Mathematics with Computers (8 ECTS)**

MATLAB's environment. MATLAB functions. For, while and if loops. Graphics in two and three dimensions. Programming. Polynomials. Reading from and writing in files. Computer arithmetic and error propagation. Symbolic computing. Special topics and applications (solution of nonlinear algebraic equations and linear systems, eigenvalue problems, numerical integration, ordinary differential equations).

#### **MAS 201 Multivariate Differential Calculus (7 ECTS)**

Normed spaces: examples,  $\mathbb{R}^n$ , equivalent norms, Cauchy-Schwartz inequality. Open and closed sets. Compactness (Heine-Borel, Bolzano-Weierstrass Theorems). Scalar and vector valued functions. Limits and continuity. Partial derivatives. Differentiability Criterion. Multivariable functions: gradient, differential, directional derivative, vector fields, divergence, curl, Laplacian operator. Vector functions of one variable: derivatives, arc length, change of parameter. Differentiation rules, chain rule, etc. Mean value Theorem. Derivatives of integrals with respect to a parameter. Taylor's Theorem. Local extrema, conditional extrema (Lagrange multipliers). Inverse and implicit function Theorems.

#### **MAS 202 Multivariate Integral Calculus (7 ECTS)**

Integrable functions and sets, properties. Fubini's Theorem. Iterated integrals for continuous functions over a compact set (scalar functions over regions of the type  $Q = I_1 \times I_2 \times I_3 \dots \times I_n$ ). Change of variables Theorem for linear and  $C^1$ -invertible transformations. Computation of volumes, Cavalieri's principle, examples such as the sphere, cylinder



and cone. Convergence theorems (interchanging limits and integrals). Transform Theorem (without proof), applications. Parametrized surfaces, partition of unity. Surface and line integrals, computing the area of a surface. Differential forms, Stokes' Theorem (Green, Gauss, Stokes), applications.

#### **MAS 203 Ordinary Differential Equations (7 ECTS)**

Separable ODEs. First order ODEs and integrating factors. Picard-Lindelöf theorem. Second order ODEs with constant coefficients. The method of undetermined coefficients and the method of variation of parameters. Systems of first order ODEs.

#### **MAS 222 Number Theory (7 ECTS)**

Divisibility, Euclidean algorithm, linear Diophantine equations. Prime numbers and the fundamental theorem of arithmetic. Congruences and the Chinese remainder theorem. Fermat's and Wilson's theorems. Arithmetic functions and perfect numbers. Euler's theorem. Quadratic Reciprocity. Pell's equation and continued fractions.

#### **MAS 261 Probability I (7 ECTS)**

Counting methods, combinatorics, probability measure space though  $\sigma$ -algebras, independence of events, random variables, cumulative distribution function, discrete and continuous random variables, mean value, multivariate distributions, multivariate normal distribution, sums of random variables, distributions of functions of random variables, covariance function, independence of random variables through the cumulative distribution function, moment generating function, characteristic function, introduction to the law of large numbers, introduction to the central limit theorem.

#### **MAS 262 Statistics I (7 ECTS)**

Random samples, statistical experiments, statistics, estimation methods (e.g. method of moments, method of maximum likelihood), properties of estimators (e.g. unbiasedness, sufficiency, completeness), exponential families, Rao-Blackwell theorem, Lehmann-Scheffe theorem, Cramer-Rao variance lower bound, confidence intervals, minimum length confidence intervals, hypotheses testing, properties of tests.

#### **MAS 271 Numerical Analysis I (7 ECTS)**

Sources and propagation of error. Numerical solution of non-linear equations. Numerical solution of linear systems of equations. Polynomial interpolation. Numerical quadrature.

#### **MAS 301 Real Analysis (8 ECTS)**

Metric spaces, Normed spaces. Examples. Open and closed sets, interior and closure of a set. Accumulation points and the derived set. The Bolzano-Weierstrass Theorem. Convergence of sequences in metric spaces. Cauchy sequences. Complete metric spaces. The fixed point theorem. Compact sets in metric spaces. The Heine-Borel Theorem. Compact metric spaces. Continuous functions. Continuous and uniformly continuous functions.

Continuity and compactness. Sequences and series of functions. Uniform convergence. Uniform convergence and continuity, uniform convergence and integration, uniform convergence and differentiation. The metric of uniform convergence. Sufficient conditions for uniform convergence of a series of functions.

#### **MAS 302 Complex Analysis I (7 ECTS)**

Complex numbers, analytic functions, Cauchy-Riemann equations. Harmonic functions. Exponential, trigonometric and logarithmic functions. Integration, Cauchy's Theorem, Cauchy's integral formulas and inequalities. Liouville Theorem and the fundamental theorem of Algebra. Maximum modulus principle. Taylor and Laurent series, residues. The argument principle. Conformal mappings and Mobius transformations.

#### **MAS 303 Partial Differential Equations (7 ECTS)**

1<sup>st</sup> order PDEs, Non-linear 1<sup>st</sup> order PDEs, Linear PDEs of 2<sup>nd</sup> order, Elliptic, Parabolic, Hyperbolic PDEs, Separation of variables, Fourier series.

#### **MAS 304 Functional Analysis (7 ECTS)**

Metric and normed linear spaces, examples, series, Schauder bases, bounded linear operators, linear functionals, dual spaces. Inner product spaces, orthogonality, orthonormal sets, Bessel's inequality, Hilbert spaces, projections, orthogonal complements. Riesz representation Theorem, orthonormal bases. Zorn's Lemma, Hahn-Banach Theorem with applications, the Principal of Uniform Boundedness with applications, the Open Mapping Theorem with applications, the Closed Graph Theorem with applications.

#### **MAS 321 Introduction to Algebra (7 ECTS)**

Groups, permutations and symmetric groups, cyclic groups. Subgroups and the Theorem of Lagrange. Homomorphisms and Quotient groups. Rings, integral domains and fields. Homomorphisms, ideals and quotient rings. Polynomial rings, divisibility in polynomial rings, prime and maximal ideals. Finite fields and field extensions.

#### **MAS 331 Classical Differential Geometry (7 ECTS)**

The Euclidean space  $\mathbb{R}^n$ : inner product, Cauchy-Schwarz inequality, isometries. Curves in  $\mathbb{R}^n$ : parametrized curves, length, periodic, closed curves. Curves in  $\mathbb{R}^2$ : curvature, Frenet equalities, winding number, isoperimetric inequality, Hopf Theorem. Curves in  $\mathbb{R}^3$ : curvature, torsion, Frenet equalities, Fundamental theorem. Surfaces in  $\mathbb{R}^3$ : regular surfaces, local parametrization, examples. Differentiable maps between surfaces, tangent space, total differential. First fundamental form, orientation, Gauss map, second fundamental form, principal curvatures, curvature lines, normal curvature, Gauss curvature, mean curvature. Integration on surfaces. Ruled, minimal surfaces, surfaces of revolution. Isometric (locally isometric) surfaces, Christoffel symbols, Theorema Egregium (Gauss). Parallel vector fields, geodesics, geodesic curvature. Gauss-Bonnet Theorem.

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**MAS 350 Stochastic Processes (7 ECTS)**

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Stochastic process, stationary processes, stopping times. Markov chains, Poisson processes, Brownian motion.

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**MAS 361 Probability II (7 ECTS)**

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Review of basic elements from MAS 261. Stochastic independence through  $\sigma$ -algebras, Borel-Cantelli lemmas, Kolmogorov 0-1 laws, mean value as Lebesgue integral, basic inequalities, convergence of sequences of random variables, convergence of series of random variables, laws of large numbers, central limit theorems, conditional probability, conditional mean value, introduction to martingales, central limit theorem for martingales.

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**MAS 362 Statistics II (7 ECTS)**

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Asymptotic properties of estimators, asymptotic efficiency, asymptotic normality, introduction to statistical decision theory (minimax estimators, Bayes estimators), asymptotic properties of tests, optimal tests, goodness-of-fit tests, tests of independence. U-statistics.

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**MAS 371 Numerical Analysis II (7 ECTS)**

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Brief revision of the theory of eigenvalues and eigenvectors. Positive definite matrices. Vector and matrix norms. Iterative methods for the solution of linear systems. Gershgorin bounds for eigenvalues. Numerical methods for eigenvalues and eigenvectors. Lagrange interpolation. Hermite interpolation. Divided differences at repeated points. The Newton form of the Hermite interpolation polynomial. Orthogonal polynomials. Gaussian quadrature.

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**MAS 401 Measure Theory and Integration (7 ECTS)**

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General revision: Sets, orderings, cardinality, metric spaces. Measures: Algebras and  $\sigma$ -algebras, additive and  $\sigma$ -additive measures, outer measures, Borel measures on the real line. Integration: measurable functions, integration of positive functions, integration of complex valued functions, Convergence theorems, modes of convergence, product measures, the  $n$ -dimensional Lebesgue integral, integration in polar coordinates, signed measures, the Radon – Nikodym theorem, complex measures, differentiation on Euclidean space, functions of bounded variation.  $L^p$  Spaces: The basic theory, the dual of  $L^p$ , the useful inequalities, the distribution function, weak –  $L^p$  spaces, interpolation.

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**MAS 402 Complex Analysis II (7 ECTS)**

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Compactness and convergence in the space of analytic functions. The space of meromorphic functions. Riemann mapping theorem. Weierstrass Theorem on entire functions, analytic continuation. Elliptic functions. Riemann surfaces.

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**MAS 403 Ordinary Differential Equations II (7 ECTS)**

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Boundary values problems. Sturm-Liouville type problems. Asymptotic behaviour of nonlinear systems of ODEs: Stability. Perturbation Theory of systems of ODEs which possess periodic solutions. Perturbations of two-dimensional autonomous systems. Poincaré-Bendixson Theory.

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**MAS 418 An Introduction to Fourier Analysis (7 ECTS)**

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Periodic functions, trigonometric polynomials, trigonometric series. Fourier series. Convergence of Fourier series. Bessel's inequality. Completeness, Parseval's Theorem. The Riemann-Lebesgue Lemma. Dirichlet's Theorem. Gibbs phenomenon. Differentiation and Integration of Fourier series. Cesaro and Abel summability of Fourier series. Fejer's Theorem. Poisson's Theorem. The Fourier transform and its properties. The inversion theorem and Plancherel's identity. The convolution and its properties. Applications to Partial Differential Equations.

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**MAS 419 Topics in Analysis (7 ECTS)**

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Topics in Real Analysis, Complex Analysis, Harmonic Analysis or Differential Equations.

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**MAS 420 Approximation Theory (7 ECTS)**

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Normed linear spaces and inner product spaces. Bounded linear operators. Fixed point methods. Iterative methods for linear systems. Best approximation in normed linear spaces and inner product spaces. Orthogonal polynomials.

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**MAS 422 Introduction to Coding Theory (7 ECTS)**

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Introduction to finite fields. Vector spaces over finite fields. Linear codes. Encoding and decoding with a linear code. Syndrome decoding. Hamming codes. Cyclic codes.

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**MAS 424 Theory of Rings and Modules (7 ECTS)**

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Rings and ideals. Homomorphism Theorems. Unique factorisation domains and principal ideal domains. Factor rings. Prime and maximal ideals. R-modules and homomorphisms. Finitely generated R-modules. Noetherian rings.

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**MAS 425 Group Theory (7 ECTS)**

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Normal subgroups, homomorphism theorems. Direct and semidirect products. Group actions. Normalizers and centralizers. Sylow theorems and  $p$ -groups. Simple groups. Finitely generated Abelian groups. Composition series and Jordan – Hölder theorem. Soluble groups.

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**MAS 426 Field Theory (7 ECTS)**

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Rings, ideals, polynomial rings. Fields, field extensions, algebraically closed fields, finite fields. Normal extensions and Galois extensions. The fundamental theorem of Galois theory. Solutions of equations by radicals, ruler and compass constructions.

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**MAS 427 Group Representation Theory (7 ECTS)**

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Representations. FG - modules, FG - submodules, FG - homomorphisms. Maschke's Theorem and Schur's Lemma. Irreducible modules. The group algebra, the centre of the group algebra. Characters, relation between characters and representations.

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**MAS 429 Topics in Algebra (7 ECTS)**

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Topics in Algebra.

**MAS 431 Introduction to Differentiable Manifolds (7 ECTS)**

Differentiable manifolds. Tangent space. Partition of unity. Sard's Theorem. Vector fields, flows. Frobenius theorem. Differential forms. Theorem of Stokes. Theorem of de Rham.

**MAS 432 Introduction to Riemannian Geometry (7 ECTS)**

Introduction to manifolds, tangent spaces and vector fields. Riemannian manifolds. Connections, geodesics, exponential map, normal coordinates, Gauss' Lemma. Hopf-Rinow Theorem. Curvature. Jacobi fields. Theorems of Bonnet-Myers, Synge-Weinstein and Hadamard-Cartan.

**MAS 433 - Topology (7 ECTS)**

Topological spaces, continuous functions, connected and compact sets, product spaces, the Tychonoff theorem, separation axioms, metric spaces. Homotopy, the fundamental group, the Seifert Van Kampen Theorem, Covering spaces.

**MAS 434 Introduction to Algebraic Topology (7 ECTS)**

Homology, Cohomology. CW complexes. Homology and Cohomology of product spaces, the Eilenberg Zilber Theorem and the K nneth Formula. The cohomology ring. Cup product. Poincar  duality. Applications: Homology and cohomology of compact surfaces, the Jordan Brouwer separation Theorem, invariance of domain.

**MAS 439 Introduction to Algebraic Geometry (7 ECTS)**

Noetherian rings, The Hilbert Basis Theorem, polynomial rings, The Nullstellensatz. Affine varieties, projective varieties, morphisms, dimension, singular and nonsingular points. Curves. Divisors on curves, intersection of plane projective curves, Bezout's Theorem. Elliptic curves. Classification of elliptic curves. The group law on elliptic curves.

**MAS 451 Linear Models I (8 ECTS)**

Simple linear regression model: estimation, confidence intervals, hypothesis testing. Multiple linear regression model: estimation, confidence intervals, hypothesis testing. Goodness of fit, residual analysis and model selection. One and two-way ANOVA.

**MAS 452 Linear Models II (7 ECTS)**

Analysis of variance with one or more fixed-effects, Analysis of variance with one or more random factors, analysis of covariance. Generalized linear models: estimation in some examples, logistic regression, asymptotic properties of estimators.

**MAS 454 Non-Parametric Statistics (7 ECTS)**

Distribution function estimation, probability density function estimation, regression function estimation, applications in R.

**MAS 455 Sampling Theory (7 ECTS)**

Sampling scheme design. Simple random sampling, stratified, systematic, cluster sampling, multistage sampling. Mean and variance estimation, ratio estimators, linear

regression estimators, optimal choice of sample size, bias in survey methodology.

**MAS 456 Time Series (7 ECTS)**

Stationary processes, autocovariance function, spectral density, linear processes, ARMA processes, non-linear processes, ARCH and GARCH processes. Estimation of the mean and of the autocovariance function. Moment estimators, least squares estimators and maximum likelihood estimators of parameters. Asymptotic properties.

**MAS 458 Statistical Data Analysis (7 ECTS)**

Introduction to R, diagnostic statistics, simulation methods, Markov chain Monte-Carlo, simulation, optimization, resampling.

**MAS 459 Multivariate Analysis (7 ECTS)**

Multivariate distributions. Mean vector and covariance matrix estimation. Wishart distribution. Principal components, canonical correlation, cluster and discriminant analysis. Testing hypothesis in many dimensions.

**MAS 466 Survival Analysis (7 ECTS)**

Censored data, Truncated data. Survival function and hazard function. Nonparametric estimation of the survival function and the hazard function. Parametric models for the hazard function. Counting processes and martingales. Semiparametric Cox model. Tests for one or more populations, tests of class-K.

**MAS 468 Topics in Probability – Statistics I (7 ECTS)**

Topics in Probability – Statistics

**MAS 469 Topics in Probability – Statistics II (7 ECTS)**

Topics in Probability – Statistics

**MAS 471 Numerical Solutions of Ordinary Differential Equations (7 ECTS)**

Brief revision of initial and boundary value problems for ordinary differential equations. Stability of initial and boundary value problems for difference equations. One-step methods for initial value problems. Runge-Kutta methods. Multistep methods for initial value problems. Shooting methods and finite difference for boundary value problems.

**MAS 472 Numerical Solutions of Partial Differential Equations (7 ECTS)**

Brief revision of initial/boundary and boundary value problems for partial differential equations. One-dimensional parabolic equations. Explicit method, implicit method and Crank-Nicolson method. Stability analysis. Two-dimensional parabolic equations. Hyperbolic equations. CFL condition. The Wendroff, Lax-Wendroff and leap frog methods. Explicit and implicit methods for the one dimensional wave equation. Elliptic equations. The five-point and nine-point methods for the Poisson equation. Non-rectangular regions. Robin boundary conditions.

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**MAS 473 Introduction to the Finite Element Method (7 ECTS)**

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Variational formulation of elliptic problems. Methods of Galerkin and Ritz. Basis functions and discretization. Error bounds. Applications and examples. Finite elements for parabolic equations.

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**MAS 481 Applied Mathematical Analysis (7 ECTS)**

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Calculus of variations. Laplace transforms. Fourier analysis. Special functions. Integral equations.

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**MAS 482 Classical Mechanics (7 ECTS)**

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Newton's laws. Central forces. Moving coordinate systems. Systems of particles. Plane motion of rigid bodies. Space motion of rigid bodies. Lagrange's equations.

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**MAS 483 Fluid Dynamics (7 ECTS)**

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Introduction to vector and tensor calculus. Continuity and momentum equations in various coordinate systems. Laminar incompressible flows amenable to analytical solution. Steady-state and transient flows and applications. Streamfunction and Stokes flow. Boundary layer. Non-Newtonian flows.

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**MAS S484 - Introduction to Mathematical Modeling (7 ECTS)**

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This course emphasizes the role of mathematical modelling as a tool for learning and appreciating mathematical techniques. Applications are drawn from diverse areas such as discrete dynamical systems, graphs and networks, linear programming. Extensive use of computer software is made throughout the course.

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**MAS 487 - Topics from Applied Mathematics (7 ECTS)**

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Topics from Applied Mathematics.

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**MAS 499 Independent Study (7 ECTS)**

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An independent study with sufficient elements of initiative and novelty under the guidance of a faculty member.

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**MAS 857, MAS 858 Mathematical Problem Solving Techniques (4 ECTS)**

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This course is geared towards undergraduate students interested in mathematical problem solving. It will also prepare students who plan to participate in mathematical Olympiads. Emphasis will be given on problem solving techniques, creative thought and exposition skills. A variety of solving techniques will be introduced followed by a number of examples and problems. The problems will cover various areas of mathematics such as Algebra, Analysis, Combinatorics, Number Theory, Geometry, etc. This is an elective course, but it will be taken into serious consideration (or will be mandatory) in the selection of students representing the Department in international mathematical competitions.

## Courses offered to other Departments

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**MAS 001 Mathematics I**

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Functions, limits and continuity of functions. Derivative, applications of derivatives. Integrals, applications of integrals. Hyperbolic functions.

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**MAS 002 Mathematics II**

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Techniques of integration, improper integral. Sequences. Series, power series. Differential equations. Partial derivatives. Linear systems, matrices, determinants, eigenvalues and eigenvectors. Vector spaces.

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**MAS 003 Elements of Complex Analysis**

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Complex numbers, analytic functions, Cauchy-Riemann equations, harmonic functions, exponential, trigonometric, logarithmic functions. Integrals, Cauchy's Theorem, Cauchy's Integral Formula. Morera's Theorem, Liouville's Theorem, Maximum Principle, Fundamental Theorem of Algebra. Taylor series, Laurent series, calculus of residues. Conformal mappings, linear rational transformations. Physical applications.

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**MAS 007 History of Mathematics**

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Topics from ancient Greek mathematics, the middle ages and the modern era.

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**MAS 012 Calculus for Computer Science I**

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Real numbers. Sequences, convergent sequences, Cauchy's criterion, limit points of sequences, upper and lower limit of a sequence. Series, convergence criteria, ratio test, root test, alternating series. Real-valued functions of one variable, limits and continuity of functions, properties of continuous functions. Derivatives, geometric and physical interpretation of the derivatives, differentiation rules, applications of derivatives. Rolle's and the mean value Theorems. Monotone functions. Maxima, minima and inflection points. De l'Hopital's rule. Convex and concave functions. Asymptotes. Differential, exponential and logarithmic functions, hyperbolic functions and their inverses.

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**MAS 013 Calculus for Computer Science II**

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Taylor's Theorem and expansions. Real analytic functions. Power Series. The Riemann integral, definition and properties of the definite integral, methods of integration, Simpson's Rule, the fundamental theorem of calculus, Indefinite integral. Geometric applications of the definite integral: area, volume, arc length. Generalized integrals, criteria of convergence. The integral criterion for the convergence of series.

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**MAS 018 Introductory Mathematics I**

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Real functions of one variable. Limits and continuity of functions. Derivatives. Applications of derivatives. Exponential and logarithmic function. Trigonometric functions and their inverse. Hyperbolic functions and their inverse. Integrals of functions of one variable. Indefinite integral. Integral of basic functions. Integration techniques.



Applications of integrals. Generalized integrals. Sequences and series of real numbers. Power series. Taylor series.

### **MAS 019 Introductory Mathematics II**

Vectors. Vector valued functions. Vector fields. Real-valued multivariate functions. Partial derivatives. Total differential. Gradient, divergence, curl. Higher order partial derivatives. Chain rule. Elements of linear algebra. Linear functions. Matrices, determinants. Linear systems. Vector spaces. Spaces with inner product. Linear independence, basis and dimension of vector space. Orthogonal and orthonormal bases. Eigenvalues and eigenvectors.

### **MAS 025 Mathematics for Engineers I**

The real number system. Complex numbers (definition, elementary operations). Sequences of real numbers and limits. Real functions of one variable, limits, continuity. Hyperbolic, trigonometric functions. Derivatives of functions of one variable, tangent to a curve. Applications of derivatives. Mean value theorem, monotonicity, extrema, asymptotes. L'Hôpital's rule. Riemannian Integral. Fundamental theorem of calculus. Indefinite integrals. Integration techniques (substitution, integration by parts, partial fractions, trigonometric substitution, etc.). Applications of integrals, calculation of area, volume and length of a curve. Real number series. Convergence criteria. Power series. Series and Taylor's Theorem.

### **MAS 026 Mathematics for Engineers II**

Multivariate functions. Tangent plane, differential. Partial derivatives. Vector fields. Gradient, divergence, curl. Vector valued functions. Curves on the plane and in space. Length of curve. Double and triple integrals. Change of variables in multiple integrals. Transformations, Jacobian determinants. Polar, spherical and cylindrical coordinate systems. Applications of multiple integrals. Line-integrals. Green's Theorem. Surface integrals. Surface area. Stokes' Theorem. Gauss' Divergence Theorem.

### **MAS 027 Mathematics for Engineers III**

Ordinary differential equations. Separable equations. Exact equations. Integrating factors. Solutions of linear and nonlinear first order differential equations. Second order differential equations. Fundamental solutions of homogeneous equations. The inhomogeneous problem. The methods of undetermined coefficients and variation of parameters. Solutions using power series. Applications of ordinary differential equations. Systems of linear differential equations. Laplace transform.

### **MAS 029 Elements of Linear Algebra**

Vectors on the plane and in space. Inner and outer product. Elements of analytic geometry in  $\mathbb{R}^2$  and  $\mathbb{R}^3$ . Equation of a straight line and a plane. Equation of a circle. Conical sections. Ellipse, hyperbola, parabola. Surfaces in  $\mathbb{R}^3$ . Linear systems and Gauss elimination method. Matrices and determinants. Matrix inversion. Matrix rank. Orthogonal matrices. Gramm-Schmidt orthonormalization. Vector spaces and spaces with inner product. Linear

independence. Basis and dimension of a vector space. Eigenvalues, eigenvectors, diagonalization.

### **MAS 030 Introduction to Probability and Statistics**

Descriptive statistics. Measures of central tendency and dispersion. Probability. Exponential families of distributions. Estimation, Point estimation, sufficiency and completeness. Confidence intervals for the mean value, the variance, the difference between the means of independent and paired samples, the ratio of the variances of independent samples, the proportions and comparison of proportions of independent and paired samples. Hypothesis testing, null hypothesis – alternative hypothesis, type I and II errors. Test for the mean value in small and large samples. Test for the comparison of the mean values of independent and paired samples. Test for the variance and the comparison of the variances of two populations. Test for the proportion and the comparison of proportions. Simple linear regression, analysis of variance.

### **MAS 051 Statistical Methods**

Descriptive statistics, probability, binomial distribution, normal distribution, sampling, confidence intervals, hypothesis testing, correlation, regression analysis, introduction to analysis of variance.

### **MAS 055 Introduction to Probability and Statistics**

Probability, conditional probability, Bayes Theorem, classical problems in probability (balls and bins, the birthday problem). Random variables, distributions (discrete and continuous). Independence. Expected value, applications (coupon collector's problem). Probability inequalities (Jensen's inequality, Markov's inequality, Chebyshev's inequality, Chernoff's bounds). Introduction to stochastic processes, Markov chains, applications, random walks, Poisson process. Statistics, point estimation, confidence intervals, hypothesis testing, applications. Correlation, linear regression.

Remark: The use of a statistical package or a statistical programming language (e.g. R) is an integral part of the course. Students are asked to familiarize themselves with the basic concepts of the course via a series of laboratory projects and applications.

### **MAS 061 Statistical Analysis I**

Descriptive statistics, probability models. random variables, expected value, sampling, central limit theorem. Estimation, confidence intervals, hypothesis testing. Introduction to Regression analysis.

### **MAS 062 Statistical Analysis II**

Regression analysis. Analysis of qualitative data. Chi-squared Tests. Analysis of variance. Nonparametrics. Time series. Decision Theory.

**TABLE A: COURSES FOR STUDENTS OF MATHEMATICS AND STATISTICS**

Course Title	ECTS	Pure Mathematics	Applied Mathematics	Statistics
MAS 101 Calculus I	8	▲	▲	▲
MAS 102 Calculus II	8	▲	▲	▲
MAS 121 Linear Algebra I	8	▲	▲	▲
MAS 122 Linear Algebra II	8	▲	▲	▲
MAS 131 Basic Mathematics I	7	▲	▲	▲
MAS 132 Basic Mathematics II	7	▲	▲	▲
MAS 133 Sets and Algebraic Structures	7	▲	▲	▲
MAS 191 Mathematics with computers	8	▲	▲	▲
MAS 201 Multivariable Differential calculus	7	▲	▲	▲
MAS 202 Multivariable Integral calculus	7	▲	▲	▲
MAS 203 Ordinary Differential Equations	7	▲	▲	▲
MAS 222 Number Theory	7			
MAS 261 Probability I	7	▲	▲	▲
MAS 262 Statistics I	7	▲	▲	▲
MAS 271 Numerical Analysis I	7	▲	▲	▲
MAS 301 Real Analysis	8	▲	▲	▲
MAS 302 Complex variables I	7	▲	▲	▲
MAS 303 Partial Differential Equations	7	MAS(Pure)A	MAS(Applied)A or MAS(Pure)**	MAS(Pure)**
MAS 304 Functional Analysis	7	MAS(Pure)A	MAS(Applied)A or MAS(Pure)**	MAS(Pure)**
MAS 321 Introduction to Algebra	7	▲	MAS(Pure)**	MAS(Pure)**
MAS 331 Classical Differential Geometry	7	▲	▲	▲
MAS 350 Stochastic Processes	7	MAS(Statistics)	MAS(Statistics)	▲
MAS 361 Probability II	7	MAS(Statistics)	MAS(Statistics)	▲
MAS 362 Statistics II	7	MAS(Statistics)	MAS(Statistics)	▲
MAS 371 Numerical Analysis II	7		MAS(Applied)A	
MAS 401 Measure Theory and Integration	7	MAS(Pure)A	MAS(Pure)**	MAS(Pure)**
MAS 402 Complex Analysis II	7			
MAS 403 Ordinary Differential Equations II	7		MAS(Applied)B	
MAS 418 An Introduction to Fourier Analysis	7	MAS(Pure)A	MAS(Pure)**	MAS(Pure)**
MAS 419 Topics in Analysis	7			
MAS 420 Approximation Theory	7		MAS(Applied)B	
MAS 422 Introduction to Coding Theory	7			
MAS 424 Theory of Rings and Modules	7			
MAS 425 Group Theory	7			
MAS 426 Field Theory	7			
MAS 427 Group Representation Theory	7			
MAS 429 Topics in Algebra	7			

**TABLE A: COURSES FOR STUDENTS OF MATHEMATICS AND STATISTICS**

Course Title	ECTS	Pure Mathematics	Applied Mathematics	Statistics
MAS 431 Introduction to Differentiable Manifolds	7	MAS(Pure)B	MAS(Pure)**	MAS(Pure)**
MAS 432 Introduction to Riemannian Geometry	7	MAS(Pure)B	MAS(Pure)**	MAS(Pure)**
MAS 433 Topology	7	MAS(Pure)B	MAS(Pure)**	MAS(Pure)**
MAS 434 Introduction to Algebraic Topology	7			
MAS 439 Introduction to Algebraic Geometry	7			
MAS 451 Linear Models I	8	MAS(Statistics)	MAS(Statistics)	▲
MAS 452 Linear Models II	7			
MAS 454 Non-Parametric Statistics	7	MAS(Statistics)	MAS(Statistics)	▲
MAS 455 Sampling Theory	7			
MAS 456 Time Series	7			
MAS 458 Statistical Data Analysis	7	MAS(Statistics)	MAS(Statistics)	▲
MAS 459 Multivariable Analysis	7			
MAS 466 Survival Analysis	7			
MAS 468 Topics in Probability – Statistics I	7			
MAS 469 Topics in Probability – Statistics II	7			
MAS 471 Numerical Solution of Ordinary Differential Equations	7		MAS(Applied)B	
MAS 472 Numerical Solution of Partial Differential Equations	7		MAS(Applied)B	
MAS 473 Introduction to the Finite Element Method	7		MAS(Applied)B	
MAS 481 Applied Mathematical Analysis	7		MAS(Applied)B	
MAS 482 Classical Mechanics	7		MAS(Applied)B	
MAS 483 Fluid Dynamics	7		MAS(Applied)B	
MAS 484 Introduction to Mathematical Modeling	7			
MAS 487 Topics from Applied Mathematics	7			
MAS 499 Independent Study	7			
MAS 857*, MAS 858* - Mathematical Problem Solving Techniques	4			

**Notes:**

\* = The Course does not have a typical course code since students can register for it at any time during their studies

▲ = Compulsory Course

## COMPULSORY COURSES ACCORDING TO THE AREAS OF SPECIALIZATION

Statistics	Pure Mathematics	Applied Mathematics
	<b>Compulsory Courses from other Department</b> (a) PHY XXX	<b>Compulsory Courses from other Department</b> (a) PHY XXX
<b>Compulsory Courses within the Department</b> (a) MAS 350 Stochastic Processes (b) MAS 361 Probability II (c) MAS 362 Statistics II (d) MAS 451 Linear Models I (e) MAS 454 Non-Parametric Statistics (f) MAS 458 Statistical Data Analysis (g) MAS 321 Introduction to Algebra or one course from the list MAS (Pure) A or one course from the list MAS (Pure) B.	<b>Compulsory Courses within the Department</b> (a) MAS 321 Introduction to Algebra (b) One course from the list MAS (Pure) A (c) One course from the list MAS (Pure) B (d) Two courses from the list MAS (Statistics)	<b>Compulsory Courses within the Department</b> (a) Two courses from the list MAS (Applied) A (b) Two courses from the list MAS (Applied) B (c) Two courses from the list MAS (Statistics) (d) MAS 321 - Introduction to Algebra or one course from the list MAS (Pure) A or one course from the list MAS (Pure) B.

### Explanations:

MAS (Applied) A	=	(a) MAS 303 Partial Differential Equations (b) MAS 304 Functional Analysis (c) MAS 371 Numerical Analysis II
MAS (Applied) B	=	(a) MAS 403 Ordinary Differential Equations II (b) MAS 420 Approximation Theory (c) MAS 471 Numerical Solution of Ordinary Differential Equations (d) MAS 472 Numerical Solution of Partial Differential Equations (e) MAS 473 Introduction to the Finite Element Method (f) MAS 481 Applied Mathematical Analysis (g) MAS 482 Classical Mechanics (h) MAS 483 Fluid Dynamics
MAS (Pure) A	=	(a) MAS 303 Partial Differential Equations (b) MAS 304 Functional Analysis (c) MAS 401 Measure Theory and Integration (d) MAS 418 An Introduction to Fourier Analysis
MAS (Pure) B	=	(a) MAS 431 Introduction to Differentiable Manifolds (b) MAS 432 Introduction to Riemannian Geometry (c) MAS 433 Topology
MAS (Statistics)	=	(a) MAS 350 Stochastic Processes (b) MAS 361 Probability II (c) MAS 362 Statistics II (d) MAS 451 Linear Models I (e) MAS 454 Non-Parametric Statistics (f) MAS 458 Statistical Data Analysis



**TABLE B: COURSES OFFERED TO OTHER DEPARTMENTS**

Course Title	Department	ECTS
MAS 001 Mathematics I	ECO, PBA, AFN, BIO	6
MAS 002 Mathematics II	PBA, AFN, BIO	6
MAS 003 Elements of Complex Analysis	PHY	7.5
MAS 007 History of Mathematics	MAS, «E»	5
MAS 012 Calculus for Computer Scientists I	CS	5
MAS 013 Calculus for Computer Scientists II	CS	5
MAS 018 Introductory Mathematics I	PHY, CHE	5
MAS 019 Introductory Mathematics II	PHY, CHE	5
MAS 025 Engineering Mathematics I	ECE, CEE, MME	5
MAS 026 Engineering Mathematics II	ECE, MME	5
MAS 027 Engineering Mathematics III	ECE, CEE, MME	5
MAS 029 Elements of Linear Algebra	ECE, CEE, MME, CS	5
MAS 030 Introduction to Probability and Statistics	ECE, CEE	5
MAS 051 Statistical Methods I	EDU, SPS, PSY	5
MAS 055 Introduction to Probability and Statistics	CS	7
MAS 061 Statistical Analysis I	ECO, PBA, AFN	6
MAS 062 Statistical Analysis II	PBA, AFN, PSY	6

**Notes:**

«E» = Free Elective Course

**TABLE C1: PURE MATHEMATICS - INDICATIVE PROGRAMME OF STUDIES**

Code - Course Title	ECTS		ECTS
<b>1st Semester</b>		<b>6th Semester</b>	
MAS 121 Linear Algebra I	8	MAS 302 Complex Variables I	7
MAS 131 Basic Mathematics I	7	MAS (PURE) B	7
MAS 133 Sets and Algebraic Structures	7	MAS (STATISTICS)	7
CS 031 Introduction to Programming	7	Foreign Language Course II	5
<b>TOTAL</b>	<b>27</b>	PHY XXX	5
<b>2nd Semester</b>		<b>TOTAL</b>	<b>31</b>
MAS 101 Calculus I	8	<b>7th Semester</b>	
MAS 122 Linear Algebra II	8	MAS (STATISTICS)	7
MAS 132 Basic Mathematics II	7	MAS XXX Restricted elective course within the Department	7
MAS 191 Mathematics with Computers	8	MAS XXX Restricted elective course within the Department	7
<b>TOTAL</b>	<b>31</b>	Free Elective Course from other departments (2 courses) or MAS XXX Restricted Elective Course within the Department *	8
<b>3rd Semester</b>		<b>TOTAL</b>	<b>29</b>
MAS 102 Calculus II	8	<b>8th Semester</b>	
MAS 201 Multivariable Differential Calculus	7	MAS XXX Restricted Elective Course within the Department	7
MAS 261 Probability I	7	MAS XXX Restricted Elective Course within the Department	7
MAS 271 Numerical Analysis I	7	MAS XXX Restricted Elective Course within the Department	7
<b>TOTAL</b>	<b>29</b>	Free Elective Course from other departments	5
<b>4th Semester</b>		<b>TOTAL</b>	<b>31</b>
MAS 202 Multivariable Integral calculus	7	<b>GRAND TOTAL</b>	
MAS 203 Ordinary Differential Equations	7		<b>240</b>
MAS 262 Statistics I	7		
Foreign Language Course I	5		
Elective Course from other departments	5		
<b>TOTAL</b>	<b>31</b>		
<b>5th Semester</b>			
MAS 301 Real Analysis	8		
MAS 321 Introduction to Algebra	7		
MAS 331 Classical Differential Geometry	7		
MAS (PURE) A	7		
<b>TOTAL</b>	<b>29</b>		

**Explanations:**

MAS XXX	=	Elective Course within the Department
*	=	Elective Course from other departments (2courses) or MAS XXX Elective course within the Department *
		The credit units must add up to a minimum of 8 ECTS.
MAS( PURE) A	=	(a) MAS 303 Partial Differential Equations (b) MAS 304 Functional Analysis (c) MAS 401 Measure Theory and Integration (d) MAS 418 An Introduction to Fourier Analysis
MAS (PURE B	=	(a) MAS 126 Field Theory (b) MAS 431 Introduction to Differentiable Manifolds (c) MAS 432 Introduction to Riemannian Geometry (d) MAS 433 Topology
MAS (STATISTICS)	=	(a) MAS 350 Stochastic Processes (b) MAS 361 Probability II (c) MAS 362 Statistics II (d) MAS 451 Linear Models I (e) MAS 454 Non-Parametric Statistics (f) MAS 458 Statistical Data Analysis

**Note:** The same course may not be used to fulfill multiple requirements of a specialization.

**TABLE C2: APPLIED MATHEMATICS – INDICATIVE PROGRAMME OF STUDIES**

Code - Course Title	ECTS		ECTS
<b>1st Semester</b>		<b>5th Semester</b>	
MAS 121 Linear Algebra I	8	MAS 301 Real Analysis	8
MAS 131 Basic Mathematics I	7	MAS 331 Classical Differential Geometry	7
MAS 133 Sets and Algebraic Structures	7	MAS (APPLIED) A	7
CS 031 Introduction to Programming	7	MAS (PURE)**	7
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>29</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
MAS 101 Calculus I	8	MAS 302 Complex variables I	7
MAS 122 Linear Algebra II	8	MAS (STATISTICS)	7
MAS 132 Basic Mathematics II	7	MAS (APPLIED) B	7
MAS 191 Mathematics with Computers	8	Foreign Language Course II	5
<b>TOTAL</b>	<b>31</b>	PHY XXX	5
<b>3rd Semester</b>		<b>TOTAL</b>	<b>31</b>
MAS 102 Calculus II	8	<b>7th Semester</b>	
MAS 201 Multivariable Differential Calculus	7	MAS (STATISTICS)	7
MAS 261 Probability I	7	MAS (APPLIED) A	7
MAS 271 Numerical Analysis I	7	MAS (APPLIED) B	7
<b>TOTAL</b>	<b>29</b>	Elective Course from other departments (2 courses) or MAS XX	
<b>4th Semester</b>		Elective course within the Department *	8
MAS 202 Multivariable Integral calculus	7	<b>TOTAL</b>	<b>29</b>
MAS 203 Ordinary Differential Equations	7	<b>8th Semester</b>	
MAS 262 Statistics I	7	MAS XXX Elective course within the Department	7
Foreign Language Course I	5	MAS XXX Elective course within the Department	7
Elective Course from other departments	5	MAS XXX Elective course within the Department	7
<b>TOTAL</b>	<b>31</b>	Elective Course from other departments	5
		Elective Course from other departments	5
		<b>TOTAL</b>	<b>31</b>
		<b>GRAND TOTAL</b>	<b>240</b>

**Explanations:**

MAS XX	=	Restricted Elective Course within the Department
*	=	Restricted Elective Course from other departments (2courses) or MAS XXX Restricted Elective course within the Department *
		The credit units must add up to a minimum of 8 ECTS.
MAS (PURE)**	=	MAS 321 Introduction to Algebra or MAS (PURE) A or MAS (PURE) B
MAS (APPLIED) A	=	(a) MAS 303 Partial Differential Equations (b) MAS 304 Functional Analysis (c) MAS 371 Numerical Analysis II
MAS (APPLIED) B	=	(a) MAS 403 Ordinary Differential Equations II (b) MAS 420 Approximation Theory (c) MAS 471 Numerical Solution of Ordinary Differential Equations (d) MAS 472 Numerical Solution of Partial Differential Equations (e) MAS 473 Introduction to the Finite Element Method (f) MAS 481 Applied Mathematical Analysis (g) MAS 482 Classical Mechanics (h) MAS 483 Fluid Dynamics
MAS (STATISTICS)	=	(a) MAS 350 Stochastic Processes (b) MAS 361 Probability II (c) MAS 362 Statistics II (d) MAS 451 Linear Models I (e) MAS 454 Non-Parametric Statistics (f) MAS 458 Statistical Data Analysis

**Note:** The same course may not be used to fulfill multiple requirements of a specialization.

**TABLE C3: Statistics – INDICATIVE PROGRAMME OF STUDIES**

Code - Course Title	ECTS		ECTS
<b>1st Semester</b>		<b>6th Semester</b>	
MAS 121 Linear Algebra I	8	MAS 302 Complex variables I	7
MAS 131 Basic Mathematics I	7	MAS 362 Statistics II	7
MAS 133 Sets and Algebraic Structures	7	MAS 458 Statistical Data Analysis	7
CS 031 Introduction to Programming	7	Foreign Language Course II	5
<b>TOTAL</b>	<b>29</b>	Elective Course from other departments	5
<b>2nd Semester</b>		<b>TOTAL</b>	<b>31</b>
MAS 101 Calculus I	8	<b>7th Semester</b>	
MAS 122 Linear Algebra II	8	MAS 454 Non-Parametric Statistics	7
MAS 132 Basic Mathematics II	7	MAS 451 Linear Models I	8
MAS 191 Mathematics with computers	8	MAS(PURE)**	7
<b>TOTAL</b>	<b>31</b>	MAS XXX Restricted elective course within the Department	7
<b>3rd Semester</b>		<b>TOTAL</b>	<b>29</b>
MAS 102 - Calculus II	8	<b>8th Semester</b>	
MAS 201 - Multivariable Differential calculus	7	MAS XXX Restricted elective course within the Department	7
MAS 261 - Probability I	7	MAS XXX Restricted elective course within the Department	7
MAS 271 - Numerical Analysis I	7	MAS XXX Restricted elective course within the Department	7
<b>TOTAL</b>	<b>29</b>	Free elective course from other departments	5
<b>4th Semester</b>		Free elective course from other departments	5
MAS 202 - Multivariable Integral calculus	7	<b>TOTAL</b>	<b>31</b>
MAS 203 - Ordinary Differential Equations	7	<b>GRAND TOTAL</b>	<b>240</b>
MAS 262 - Statistics I	7		
Foreign Language Course I	5		
Elective Course from other departments	5		
<b>TOTAL</b>	<b>31</b>		
<b>5th Semester</b>			
MAS 301 - Real Analysis	8		
MAS 331 - Classical Differential Geometry	7		
MAS 350 - Stochastic Processes	7		
MAS 261 - Probability I	7		
<b>TOTAL</b>	<b>29</b>		

**Explanations:**

MAS XXX	=	Restricted Elective Course within the Department
MAS (PURE)**	=	MAS 321 - Introduction to Algebra or MAS (PURE) A or MAS (PURE) B

**Note:** The same course may not be used to fulfill multiple requirements of a specialization.





Faculty of Pure and Applied Sciences

## • • • • Department of Physics

[www.ucy.ac.cy/phy/en](http://www.ucy.ac.cy/phy/en)

### **CHAIRPERSON**

Fotios Ptochos

### **VICE-CHAIRPERSON**

Spiros Skourtis

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Constantinos Christofides  
Andreas Othonos  
Haralambos Panagopoulos  
Panos Razis  
Haralambos Tsertos

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Gregorios Itskos  
Konstantinos Mouloupoulos  
Fotios Ptochos  
Spiros Skourtis  
Stavros Theodorakis  
Nicolaos Toumbas

### **ASSISTANT PROFESSORS**

Constantinos Skordis  
Theodoros Trypiniotis

## AIM OF THE DEPARTMENT

The aim of the Department is to promote scientific knowledge, research and teaching in the area of Physics. The Department offers undergraduate degree programmes leading to a Bachelor's Degree, as well as graduate programmes leading to the following degrees: Master in Physics, Master in Principles of Physics and Ph.D. in Physics. Special emphasis is placed on balanced learning, in both traditional classroom and laboratory settings. Teaching consists mainly of lectures and laboratory courses, supplemented by seminars and tutorial sessions. The first Physics students were admitted in 1993. Each year, approximately 30 undergraduate students are enrolled as freshmen.

Graduates of the Department are qualified to seek employment in academia and industry, carry out research in institutions in Cyprus and abroad, or teach in secondary education. In addition, the study of Physics enables students to acquire analytical and computational skills to think and work methodically. Thus, Physics graduates are prepared for employment in any area where such skills are required, in addition to their areas of specialization.

## DEGREE PROGRAMME

The programme consists of five types of courses:

- Basic or Introductory Courses
- Core Courses
- Specialization Courses
- Compulsory Courses from other departments
- Elective Courses from at least three different faculties

The Basic or Introductory Courses are all compulsory and prerequisite for the Core Courses. The latter are also compulsory and cover many of the areas that a physicist must master. On completion of these courses, students will take a number of specialization courses. These courses aim at familiarizing students with concepts and topics, that will be relevant to their final year project work and will help them to define their professional orientation on graduation.

The programme contains compulsory courses offered by other departments, such as the Department of Mathematics and Statistics, the Department of Chemistry and the Language Centre.

Finally, the programme requires students to take elective courses outside the Department, to complement the main area of studies. These options are selected in consultation with their academic advisor.

## FINAL YEAR PROJECT

The Final Year Project plays a special role in the undergraduate programme of the Department. Students choose to take the project work under the close supervision of a member of the academic staff of the Department, concentrating on a specialized topic, selected from a list of topics. While carrying out the project, students learn to search and study the relevant literature, to present seminars to their fellow students in a clear and concise way, and to

record and report the essential conclusions. Some of the projects will be experimental in nature and some require the use of a computer. Whereas the final year project does not have to be original, the Department expects the more capable students to be involved in the research activities of their supervisors.

Those students who choose to take the project, will be awarded an official certificate signed by the Dean of the Faculty, the Chairperson of the Department and the Project Advisor.

## COURSES OFFERED TO STUDENTS OF OTHER DEPARTMENTS

The following courses are offered to students of other departments:

	ECTS
<b>Fall Semester</b>	
PHY 101 Principles of Physics	6
PHY 102 Physics for Chemists	6
PHY 103 Physics for Mathematicians	6
PHY 131 General Physics I: Mechanics and Waves and Thermodynamics	6
PHY 134 Physics for Engineers	5
PHY 137 Physics for the Medical School	6
<b>Spring Semester</b>	
PHY 011 Modern Physics for Poets	5
PHY 012 Physics and Applications	5
PHY 132 General Physics II: Electricity and Electromagnetic and Optics	6

## COURSE DESCRIPTIONS

### PHY 011 Modern Physics for Poets (5 ECTS)

Culture as a function of our beliefs about space, time, boundaries, the vacuum, chaos. Principle of Relativity—reversal of conventional viewpoints. Special and General Relativity. Warped Space and Time, Topology, Escher's art. Concepts of space and time in the Middle Ages and in naïve—primitive—eastern—modern art. Wavefunctions—fuzzy boundaries. Virtual and real. Superposition—Interpretation. Metamorphic Images in Surrealism. The observer (reader, spectator) as a participant in Physics (literature, art). Hypertexts. Aristotelian and Multivalued Logic. Self-Referentiality, Fractals. The Vacuum as a dynamic concept in Physics and Art. Dynamic entities in Postmodern Culture.

### PHY 012 Physics and Applications (5 ECTS)

Kinematics in one and two dimensions. Newton's Laws of Motion. Forces. Dynamics of circular motion. Work and energy. Conservative forces and the potential function. Simple harmonic motion and the ideal spring. Waves. Wave-particle duality. Heisenberg's Uncertainty Principle. Probability. The meaning of the wavefunction. The Schrödinger Equation. Solutions of the Schrödinger

Equation for simple systems such as: free particle, particle in a box, harmonic oscillator. Comparisons with classical results. Tunneling. Applications of Quantum Mechanics.

#### PHY 101 Principles of Physics (6 ECTS)

**Classical Physics:** Inertial Frames and Newton's Laws. Conservation of Energy and Momentum. Centre of Mass. Rotational Motion. **Modern Physics:** Photoelectric effect. The wave-particle character of the microscopic world. The Uncertainty Principle. Nucleus and Radioactivity. Nuclear Fission and Fusion. The Michelson-Morley Experiment. Relativity of Space and Time. The Twin Paradox. Equivalence of gravity field and accelerated frames. Gravity and Geometry.

#### PHY 102 Physics for Biologists and Chemists (6 ECTS)

**Mechanics:** Work, energy, momentum, torque, angular momentum, oscillations, fluid mechanics. **Electricity and Magnetism:** Electric fields, potential, dipoles, polarization, dielectrics, electric oscillations, magnetism in matter, diamagnetism, paramagnetism, alternating current circuits, electromagnetic radiation, semiconductors. **Wave Motion -Optics:** Interference and diffraction of light waves, polarization of light, chemical applications of polarization and of light scattering, Bragg's Law, absorption and emission spectra.

#### PHY 103 Physics for Mathematicians (6 ECTS)

Elements of Lagrangian and Hamiltonian Mechanics (and reference to Hamilton-Jacobi formulation as preparation for the passage to Quantum Mechanics). Elements of Electromagnetism / Classical Electrodynamics (Maxwell-Lorentz theory) - Introduction to the Special Theory of Relativity. Elements of Quantum Mechanics: quantum states as vectors - and observables as (self-adjoint) operators - in Hilbert spaces, position and momentum representations and Fourier transforms, physical meaning of eigenvalues and eigenstates of Hermitian operators, solution of Schrödinger equation (viewed as an ordinary or partial differential equation) in simple quantum systems – Uncertainty Principle – Ehrenfest and Hellmann-Feynman theorems – Symmetries and Generators, gauge symmetry (and some of its nontrivial consequences).

#### PHY 111 General Physics I (8 ECTS)

Measurement Units, Dimensional Analysis, Vectors. Motion in one and more dimensions, Velocity and Acceleration, Reference Frames. Forces, Newton's Laws. Work, Mechanical Energy. Momentum, Centre of Mass. Torque, Angular Momentum, Moment of Inertia. Oscillations. Universal Gravitation, Kepler's Laws. Fluid Mechanics.

#### PHY 112 General Physics II (7.5 ECTS)

Electric Fields, Gauss's Law, Electric Potential, Capacitance and Dielectrics, Current and Resistance, DC Electrical Circuits. Magnetic Fields, Sources of Magnetic Field, Biot-Savart and Ampere's Laws. Faraday's Law, Induction and Inductors, AC Electrical Circuits, Displacement current and Maxwell's Equations, Electromagnetic Waves.

#### PHY 113 Modern Physics (6 ECTS)

**Thermodynamics:** thermal expansion, ideal gases, first law of thermodynamics, kinetic theory of gases, thermal engines, entropy, second law of thermodynamics. **Special Relativity:** principle of relativity, axioms of special relativity, time dilation, length contraction, Lorentz transformations, relativistic momentum and energy, relativistic collisions. **General Relativity:** principle of equivalence, curved path of light, warped space and time, black holes. **Quantum theory of light:** black body radiation, photo-electric effect, Compton effect, wave-particle duality. Atomic nature of matter, the atom of Bohr, De Broglie matter waves, Heisenberg's principle of indeterminacy, quantum diffraction.

#### PHY 114 Physics Laboratory I (8 ECTS)

**Theory of error analysis:** Types of errors. **Error propagation:** Examples and Applications. Gaussian and Poisson distributions. Error Probability. Compatibility of Measurements. Weighted Average. Least squares theory. Data Analysis Diagrams. **Experiments:** Simple pendulum. Free Fall. Projectile Motion. Collisions. Linear Accelerated Motion. Conservation of mechanical energy. Angular oscillations. Moment of inertia of solids. Gyroscope. Air Resistance.

#### PHY 115 Physics Laboratory II (7.5 ECTS)

Maxwell Distribution of Velocities. Heat Capacity of Gases. Electrolysis. Falling Ball Viscometer. Charging of a Capacitor. Measurement of Magnetic Fields. Magnetic Moment. Magnetic Induction. RLC Circuits. Radiation - Stefan Boltzmann Law. Thermal and Electrical conductivity of Metals. Measurement of the Magnetic Field of the Earth. Simulation of Electromagnetic Fields.

#### PHY 131 General Physics I: Mechanics and Waves and Thermodynamics (6 ECTS)

*(For the Department of Electrical and Computer Engineering)*

Measurement Units, Coordinate Systems. Motion in one and more dimensions, Velocity, Acceleration, Reference frames. Forces, Newton's Laws. Work, Mechanical energy. Momentum, Center of mass. Torque, Angular Momentum, Moment of Inertia. Oscillations. Universal Gravitation, Kepler's Laws. Wave equation, Transverse and Longitudinal waves. Phase and Group velocity. Thermodynamics. Heat and the First and Second Law, Engines, Refrigerators and Entropy, Blackbody Radiation, Planck's Quantum Hypothesis, Photoelectric Effect.

#### PHY 132 General Physics II: Electricity and Electromagnetic and Optics (6 ECTS)

*(For the Department of Electrical and Computer Engineering)*

Electricity and Electromagnetism. Electric Fields. Gauss' Law. Electric Potential. Capacitance and Dielectrics. Current and Resistance. Magnetic Fields. Sources of Magnetic Field. Faraday's Law. Induction and Motors. Electromagnetic Waves, Doppler Effect for sound and light. Optics: Geometrical Optics, Huygen's and Fermat's principle, Optical Instruments. Interference, Young's Experiment,



Michelson's Interferometer, Multiple Beam Interference, Rayleigh's Resolution Criterion, Fraunhofer Diffraction, Diffraction Grating, Bragg's Law, Polarization, Malu's Law, Double Refraction, Production of circularly polarized light.

### PHY 134 Physics for Engineers (5 ECTS)

*(For the Department of Civil and Environmental Engineering)*

**Introduction to Thermodynamics:** Temperature, Thermal Dilation, Heat and Mechanisms of Heat Propagation, Internal Energy, First Thermodynamic Law. **Ideal Gases:** Law, Thermodynamic Processes, Internal Energy, Heat Capacity. **Kinematics:** Instantaneous and Average Velocity-Acceleration, Projectile Motion. Newton's Laws and Applications, Friction, Drag, Circular-Relative Motion. Kinetic-Potential Energy, Work, Principle of Energy Conservation. Linear Momentum and Momentum Conservation, Collisions, Center of Mass. **Dynamics of Rotational Motion:** Angular Velocity-Acceleration, Angular Momentum and Angular Momentum Conservation. **Periodical Motion:** Harmonic Oscillator, Equations and Energy, Simple and Natural Pendulum. **Mechanical Waves:** Mathematical Description, Wave Velocity-Acceleration-Energy.

### PHY 137 Physics for the Medical School (6 ECTS)

The aim of the course is to familiarize medical students with a broad range of physical principles in the areas of Mechanics, Fluids, Wave Physics, Geometrical Optics, Electricity, Nuclear Physics and Molecular Biophysics. The emphasis will be on the application of these principles to the Physics of the Human Body. The course requires a strong background in Physics; three years of upper secondary Physics courses is a general prerequisite.

**Elements of Mechanics** (Newton's laws; Forces and Translational Equilibrium; Torques and Rotational Equilibrium; Work and Energy; Collisions; Elements of Elasticity Theory; Statics, Kinematics, and Mechanical Properties of the Human Body). Fluids (Pressure and Density; Principles of Archimedes and Pascal; Continuity equation; Bernoulli Equation; Viscosity and Poiseuille Flow; Pressure and flow of Blood in the Human Body). **Harmonic Motion and Waves** (Properties of Sound; Doppler Effect; Ultrasounds; the Human Ear and Hearing). **Elements of Electricity** (Insulators and Conductors; Coulomb Law; Electric Field; Electric Potential; Capacity; Dielectrics; Electric Current and Ohm's Law; Nerve Conduction; ECG); **Geometrical Optics** (Index of refraction; Mirrors; Diffraction; Snell's law; The Lens Equation; the Camera; the Magnifying Glass; the Microscope; the Human Eye; Vision-correcting Lenses). Elements of Nuclear Physics (Nuclear Forces; Radioactivity;  $\alpha$ ,  $\beta$ ,  $\gamma$  Decay; Interaction of Radiation with Matter; Dosimetry). **Medical Applications of Molecular Biophysics** (Relation between Structure and Dynamics of Macromolecules; Applications in Drug Design).

### PHY 145 Computational Methods in Physics (7.5 ECTS)

Introduction: The Linux operating system, Emacs editor, plotting, computer implementation of numbers, basic

commands of the Fortran programming language. Ordinary differential equations: Numerical differentiation, Euler method, Runge-Kutta method. Applications to simple physical systems: planetary orbits, electronic circuits. Algebraic equations: Bisection method, Newton-Raphson algorithm. Systems of linear equations: Inverse matrices, matrix diagonalization Applications in Classical Mechanics. Data analysis: Probability distributions, least squares method, fits. Numerical integration: Simpson method, Gaussian quadrature, multiple integrals in Physics. Deterministic randomness: Random number generators, simple simulations, Monte Carlo evaluation of integrals. Chaotic systems: Logistic map, chaotic behaviour in Classical Mechanics, Lorenz attractor. High level programming languages: Introduction to the program Mathematica, Symbolic computations, numerical and analytical evaluations of integrals and equations. Applications in Physics.

### PHY 211 Classical Mechanics (7.5 ECTS)

Inertial Frames of Reference and Generalized Coordinates, Newtonian Mechanics, Lagrangian Formalism, Conservation Laws, Motion in a Central Potential, Gravitational Fields, Small Amplitude Oscillations, Nonlinear Oscillations and Chaos, Scattering, Non-inertial Frames of Reference, Rigid Body Motion, Hamilton Equations.

### PHY 213 General Physics III (7.5 ECTS)

Wave Equation, Transverse and longitudinal waves, Phase and group velocity, Electromagnetic waves, Doppler effect for sound and light, Geometrical optics, Huygen's and Fermat's principle, Optical instruments, Interference, Young's experiment, Michelson's interferometer, Michelson's and Morley's experiment, Multiple-beam interference, Rayleigh's resolution criterion, Fraunhofer diffraction, Diffraction grating, Bragg's law, Polarization, Malus' law, Brewster's law, Double refraction, Production of circular polarized light.

### PHY 216 Physics Laboratory III (7.5 ECTS)

The course contains experimental exercises in Waves and Optics. Waves on a Spring, String Oscillations, Ultrasound Propagation in Air and Liquids, Doppler shift in ultrasound. Optics: The Laws of Lenses, optical assemblies (microscope, telescope), Thin Film Interference, Newton Interference Apparatus, Michelson Interferometer, Polarization of Light, Fraunhofer Diffraction, Prism Spectrometer, Diffraction Grating Spectrometer, Measurement of the Speed of Light, Fresnel's Laws.

### PHY 221 Mathematical Methods of Physics I (7.5 ECTS)

Vector Calculus and Applications: Multiple integrals, Line and surface integrals. Gradient, divergence, curl. The theorems of Green, Gauss, Stokes. Applications in the mechanics of rigid bodies, Hydrodynamics and Electromagnetism. Systems with axial and spherical symmetry. Fourier Series: Fourier series and integrals. Convergence criteria. Applications in wave mechanics. Orthogonal functions in Electrostatics and in Quantum Mechanics. Applications of Ordinary Differential Equations



in Mechanics, Electromagnetism, Quantum Mechanics: Classification. Existence and uniqueness of solutions. Physical systems with linear, nonlinear and chaotic behavior. Conservative systems, driving forces. Analytic methods for solving second order equations. Systems of equations. Power series solutions. Laplace transform. The Dirac function. Introduction to Numerical Methods, Applications to scattering and to the many-body problem.

#### **PHY 222 Mathematical Methods in Physics II (7.5 ECTS)**

Boundary value problems for ordinary and Partial Differential Equations (PDEs), Sturm-Liouville Theory, Self-adjoint Boundary Conditions. Separation of Variables in the Wave, Heat, the Schrödinger and the Laplace Equations, Bessel Functions, Legendre Polynomials, Spherical Harmonics. Continuous Sets of Eigenfunctions, the Dirac  $\delta$ -function, the Heaviside  $\theta$ -function, Concept and Use of Propagator. Green's Functions, Poisson Equation, Inhomogeneous Helmholtz Equation, Quantum Scattering and Born Series. Finite Regions and the Method of Images. Minimal substitution in Schrödinger's equation and application to the Physics of Landau Levels.

#### **PHY 225 Quantum Mechanics I (7.5 ECTS)**

Schrödinger's Equation and the Wavefunction. The Statistical Interpretation, Wavefunction Normalization, Position/Momentum Operators, the Hamiltonian. The Heisenberg Uncertainty Principle. Stationary States. Solutions of Schrödinger's Equation for the following One-dimensional Potentials: Infinite Square Well, Harmonic Oscillator, Free particle, Delta Function Potential, Finite Square Well. The Formalism of Quantum Mechanics, Hilbert space. Operators and Commutation Relations. Generalized Statistical Interpretation and Uncertainty Relations. Angular Momentum and Three-Dimensional Potentials.

#### **PHY 231 Electromagnetism I (7.5 ECTS)**

Mathematical introduction: Theorems for Gradients, Divergences and for Curls. Electrostatics: The Electrostatic Field, Electric Potential, Work and Energy, Conductors. Special techniques for calculating potentials and applications. Electrostatics Fields in matter: Polarisation, the electric displacement, and linear dielectrics. Magnetostatics: The magnetic field, the Lorentz force Law, the Biot-Savard Law, magnetic vector potential. Magnetostatic fields in matter: Magnetisation, the auxiliary field  $H$ , linear and nonlinear media. Electrodynamics: Electromotive Force, Faraday's Law, complete set of Maxwell's equations, Poynting's theorem. Electromagnetic Waves: The Wave Equations, propagation of Electromagnetic Waves through empty space and linear media.

#### **PHYS 235 Electromagnetism II – Special Theory of Relativity (7.5 ECTS)**

**Electromagnetic (E/M) Waves:** Waves in one dimension (wave equation, sinusoidal waves, boundary conditions, reflection and transmission, polarization). E/M waves in vacuum (the wave equation for  $E$  and  $B$  monochromatic plane waves, energy and momentum in E/M waves). E/M waves in matter (propagation in linear media, reflection

and transmission). Absorption and dispersion (E/M waves in conductors, reflection at a conducting surface, the frequency dependence of permittivity). Guided waves (waveguides, EH waves in a rectangular waveguide, the coaxial transmission line).

**Potential and fields:** The potential formulation (scalar and vector potentials, Gauge transformations, the Coulomb and Lorentz gauge). Retarded and advanced potentials. Lienard-Wiechert potentials. The fields of a moving point charge.

**Electromagnetic radiation:** Dipole radiation (electric and magnetic dipole radiation, radiation from an arbitrary source, power radiated by point charge, radiation reaction).

**Electrodynamics and relativity:** The special theory of relativity (Einstein's postulates, the geometry of relativity, the Lorentz transformations, the structure of space-time, applications). Relativistic mechanics (proper time and proper velocity, relativistic energy and momentum, relativistic kinematics, relativistic dynamics, applications). Relativistic electrodynamics (the transformation of the fields, the field tensor, electrodynamics in tensor notation, relativistic potentials).

#### **PHY 301 Solid State Physics (7.5 ECTS)**

Crystal Structure, Lattices, Reciprocal Lattice, Bragg and Laue Equations, Diffraction of X-rays by Crystals. Crystal Bonds, Madelung Energy. Crystal Vibrations in Monoatomic/Diatomic Lattice, Phonons, Specific Heat, Einstein and Debye Models, Thermal Conductivity of Solids. Free Electron Gas, Electrical Resistivity of Metals, Hall Effect, Cyclotron Resonance. Energy Bands, Nearly Free Electron Model, Bloch Theorem, Kronig-Penney Model. Semiconductors: Energy Gap, Holes, Effective Mass, Impurity Conductivity. Propagation of Electromagnetic Waves in Crystal Lattices, Optical Constants, Absorption, Excitons, Luminescence. Electrons in Strong Magnetic Fields, Landau Levels, Quantum Hall Effect. Phenomenology of Superconductivity, Meissner Effect, Cooper Pairs.

#### **PHY 302 Advanced Physics Laboratory I (7.5 ECTS)**

The Hall effect in p-germanium. The behavior and study of photocells. The bandgap of germanium. The Hall effect in metals. Spectroscopy of semiconductors. X-ray diffraction - Bragg scattering of a crystal structure. A study of microwaves - the behavior of microwaves. Advanced interferometry - methods and measurements. The Ar<sup>+</sup> ion laser - the study of a gas laser system.

#### **PHY 321 Nuclear Physics (7.5 ECTS)**

Introduction, Nuclear Properties, Nuclear Models, Radioactive Decay, Alpha Decay, Beta Decay, Gamma Decay, Nuclear Reactions and their Kinematics, Nuclear Fission and Nuclear Fusion, Nuclear Astrophysics, Big Bang Cosmology.

#### **PHY 322 Advanced Physics Laboratory II (7.5 ECTS)**

##### **(Experiments in Atomic and Nuclear Physics)**

Introduction. Measurement of the Specific Charge of the Electron. Observation of the Zeeman Effect. Observation of

the Electron Spin Resonance. The Compton Effect. X-Ray Fluorescence and Moseley's Law. Rutherford Scattering Spectroscopy of  $\alpha$ -Particles. Spectroscopy of  $\beta$ -Particles. Spectroscopy of  $\gamma$ -Rays. The Geiger-Mueller Counter.

#### **PHY 326 Quantum Mechanics II (7.5 ECTS)**

The Hydrogen Atom, Angular Momentum and Spin, Addition of Angular Momenta, Identical Particles, The Periodic Table, Time Independent Perturbation Theory, The Variational Method, Time Dependent Perturbation Theory, Zeeman and Stark Effects, Radiation, Einstein Coefficients, The Aharonov-Bohm Effect, Measurement Theory, Basic Principles of Atomic Physics, Modern Developments.

#### **PHY 331 Particle Physics (7.5 ECTS)**

Brief historical background, Particles of Matter and Fundamental Interactions, Interactions of Particles and Radiation with Matter, Particle Detectors and Accelerator Systems. Symmetries, Quantum Numbers and Conservation Laws. Symmetry Violations, Local Gauge Transformations, Quantum Electrodynamics, Weak Interactions, Spontaneous Symmetry Breaking. Higgs Mechanism, Intermediate Vector Bosons, Electroweak Theory. Quantum Chromodynamics, Asymptotic Freedom, Confinement, problems of the Standard Model. Unification Theories, Supersymmetry and Supersymmetric Particles. Applications of Particle Physics in Medicine, Technology and Industry.

#### **PHYS 341 Electronics (7.5 ECTS)**

The objective of this course is to introduce students to modern electronics, providing a thorough, comprehensive and practical coverage of electronic devices, circuits and applications. Laboratory experience is an essential part of the course. Most of the lectures will describe how a variety of basic modern electronic elements such as diodes, bipolar junction transistors, field-effect transistors operate and how to analyze a circuit containing these elements. Contents: DC and AC circuits. Semiconductors and applications to circuits. PN junction diodes. Transistors. Field-effect transistors. Digital circuits. In parallel with these lectures there are associated experiments in the above areas, giving the student hands-on experience with electronics.

#### **PHY 342 Thermodynamics and Statistics (7.5 ECTS)**

**Thermodynamics:** Equilibrium and equations of state, Kinetic theory of the ideal gas, Laws of thermodynamics, Applications of thermodynamic laws, Thermodynamic potentials, Phase transitions.

**Statistical Mechanics:** Number of microstates and entropy, the axiom of equal probabilities, Microcanonical ensemble and applications, Canonical ensemble and applications (Ideal gas, Maxwell's velocity distribution, Paramagnetism, Gases with internal degrees of freedom, Equipartition and Virial theorems, Debye Model, Black body radiation), The grand canonical ensemble, The grand canonical ensemble of ideal gas, Fermi and Bose gases, Bose-Einstein condensation.

#### **PHY 347 Computational Physics (7.5 ECTS)**

A) Random-number generators. Evaluation of integrals with the Monte Carlo Method. Metropolis Monte Carlo simulations (applications in random-walk problems, the 2-d Ising model). B) Numerical solution of differential equations. Application to the Diffusion Equation, the Laplace/Poisson Equation and the Schrodinger Equation. C) Molecular Dynamics Simulation Methods – basic notions (equations of motion, numerical algorithms; heating and equilibration; microcanonical and canonical simulations). Application to the Lennard-Jones Fluid. Calculation of pressure, Diffusion Coefficient, Radial Distribution Function.

#### **PHY 351 Research in Physics (2 ECTS)**

Each week, a member of the faculty will present the research of his field with a lecture of one and half hour typical duration, followed by discussion and/or presentation of his/her laboratory. Attendance is mandatory and will be recorded. The successful completion of the course is based on attendance. The student fails the course, if he/she is absent in more than two lectures.

#### **PHY 405 Cosmology and General Theory of Relativity (7.5 ECTS)**

Observations leading to General Relativity. Phenomena studied by Cosmology. Spacetime in General Relativity. Geodesics and gravitational potential. Stress-energy tensor. Riemann curvature tensor. Einstein equations. The Schwarzschild solution. Classic tests of General Relativity: Calculation and experimental verification. Black holes: Schwarzschild, Kerr. Their thermodynamics, evaporation. Observations. Gravitational radiation, detectors, power of gravitational radiation. The expanding Universe. Robertson-Walker metric. Friedmann models. Event horizon. Particle horizon. Big Bang: The evidence for it. Physical processes at various stages of the Universe. Dark matter and dark energy.

#### **PHY 415 Biophysics (7.5 ECTS)**

The aim of the course is to familiarize students of Physics with concepts from Life Sciences and to present the application of concepts and methods from Classical Mechanics, Statistical Physics, Electro-statistics and Quantum Mechanics to the study of phenomena taking place in living systems, with emphasis on the behaviour of biomolecules. Brief introduction to the central dogma of Molecular Biology. Structure and properties of biomolecules: Classes of biomolecules (proteins, nucleic acids, lipids, carbohydrates). Properties of amino acids; hierarchical organization of protein structures into primary, secondary, tertiary and quaternary levels. Protein Thermodynamics: atomic interactions; the helix-coil transition; the Random Energy Model. Statistical mechanics of biomolecular association; Allosteric Mechanisms; Molecular Modelling: Hamiltonians used in the description of atomic interactions in biomolecules; normal modes and applications in biomolecules; molecular dynamics simulations; Implicit-solvent descriptions; Continuum Dielectric Models, Poisson-Boltzmann calculations and the Generalized Born approximation; Free-energy calculations:

the Thermodynamic Integration and Thermodynamic Perturbation approaches; Jarzynski Inequality.

#### **PHY 427 Atomic and Molecular Physics (7.5 ECTS)**

Atomic Physics: Angular momentum and spin. The hydrogen atom. Approximate methods for the solution of the Schrodinger equation. Atomic structure and spectra. Molecular Physics: The Born-Oppenheimer approximation. The chemical bond: The  $H_2^+$  molecular ion, the  $H_2$  molecule, valence-bond and molecular-orbital theories. The Hartree-Fock method. Molecular electronic structure and spectra.

#### **PHY 435 Theoretical Physics (7.5 ECTS)**

Symmetries: Definition, physical consequences of symmetries, Symmetries in Classical Mechanics, Symmetries in Quantum Mechanics. The Heisenberg Representation. Classical Fields: Gauge invariance, the action functional of the Electromagnetic Field, the energy and momentum tensor. Relativistic Quantum Mechanics: The Klein-Gordon Equation, the Dirac Equation, elements of second quantisation. Scattering Theory: Green's functions, asymptotic states, potential scattering, phase shifts, resonances. Introduction to String Theory.

#### **PHY 445 Electronic Systems (7.5 ECTS)**

Introduction to semiconductor physics: general characteristics of semiconductors, crystal structure, energy bands, doping, carrier transport phenomena. Bipolar devices: device technology, p-n junction, charge depletion zones, I - V curves. Metal semiconductor contacts: Energy band, Schottky effect, carrier transport processes, ohmic contacts. Transistor: introduction, bipolar transistor, MOSFET, JFET. Photonic devices: introduction, radiative transitions, light emitting diodes (LED), laser diodes. Photodetectors: photodiode, avalanche photodiode, phototransistor, digital imaging sensors. Solar cells: introduction, p-n junction solar cells, thin film solar cells. Nanoelectronics - Spintronics: introduction, physics of magnetic storage nanoparticles in electronic, spin in electronics and future memories.

### 1. Basic or Introductory Courses (59.5 ECTS)

PHY 111 General Physics I  
PHY 112 General Physics II  
PHY 113 Modern Physics  
PHY 114 Physics Laboratory I  
PHY 115 Physics Laboratory II  
PHY 145 Computational Methods in Physics  
PHY 213 General Physics III  
PHY 216 Physics Laboratory III

### 2. Core Courses (62 ECTS)

PHY 211 Classical Mechanics  
PHY 221 Mathematical Methods of Physics I  
PHY 222 Mathematical Methods of Physics II  
PHY 225 Quantum Mechanics I  
PHY 231 Electromagnetism I  
PHY 235 Electromagnetism II - Special Theory of Relativity  
PHY 326 Quantum Mechanics II  
PHY 342 Statistical Physics and Thermodynamics  
PHY 351 Research in Physics

### 3. Specialized Courses (75 ECTS)

**Students must take ten Specialised Courses:**

#### GROUP A

Students must take two of the following laboratory courses:

PHY 302 Advanced Physics Laboratory I  
PHY 322 Advanced Physics Laboratory II  
PHY 341 Electronic Physics

#### GROUP B

Students must take four of the following:

PHY 301 Solid State Physics  
PHY 321 Nuclear Physics  
PHY 331 Particle Physics  
PHY 347 Computational Physics  
MAS 003 Complex Analysis

#### GROUP C

**Students must take four of the following:**

PHY 405 Cosmology and General Theory of Relativity  
PHY 411 Final Year Project I  
PHY 412 Final Year Project II  
PHY 415 Biophysics  
PHY 427 Atomic and Molecular Physics  
PHY 435 Theoretical Physics  
PHY 445 Electronic Systems

Any course not taken from Group A

Any course not taken from Group B

### 4. Compulsory Courses from other departments (26 ECTS)

#### Foreign Language

Two Courses

#### Mathematics

Two Courses: MAS 018 and MAS 019

The two courses (MAS 018 and MAS 019) from the Department of Mathematics and Statistics are introductory and specifically designed to satisfy the math requirements of physics students, as determined by the Department of Physics.

#### Chemistry

One Course: CHE 021 Introductory Chemistry  
(for Biologists and Physicists)

### 5. Elective Courses (20 ECTS)

Students are required to complete 20 ECTS of Elective Courses outside of their main area of studies. The courses must be from three different faculties.



## ANALYTICAL PROGRAMME OF STUDIES

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
PHY 111 General Physics I	8	PHY 326 Quantum Mechanics II	7.5
PHY 114 Physics Laboratory I	8	PHY 342 Statistical Physics and Thermodynamics	7.5
CHE 021 Introductory Chemistry (for Biologists and Physicists)	6	PHY 351 Research in Physics	2
MAS 018 Mathematics I	5	Elective Course I	5
<b>TOTAL</b>	<b>27</b>	Elective Course II	5
		Foreign Language Course I	5
<b>2nd Semester</b>		<b>TOTAL</b>	<b>32</b>
PHY 112 General Physics II	7.5	<b>6th Semester</b>	
PHY 113 Modern Physics	6	One Course from Group A	7.5
PHY 145 Computational Methods in Physics	7.5	One Course from Group B	7.5
PHY 115 Physics Laboratory II	7.5	One Course from Group B	7.5
MAS 019 Mathematics II	5	One Course from Group B	7.5
<b>TOTAL</b>	<b>33.5</b>	<b>TOTAL</b>	<b>30</b>
<b>YEAR TOTAL</b>	<b>60.5</b>	<b>YEAR TOTAL</b>	<b>62.5</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
PHY 213 General Physics III	7.5	One Course from Group A	7.5
PHY 216 Physics Laboratory III	7.5	One Course from Group B	7.5
PHY 221 Mathematical Methods of Physics I	7.5	One Course from Group C	7.5
PHY 231 Electromagnetism I - Special Relativity	7.5	One Course from Group C or Project I	7.5
<b>4th Semester</b>		<b>TOTAL</b>	<b>30</b>
PHY 211 Classical Mechanics	7.5	<b>8th Semester</b>	
PHY 222 Mathematical Methods of Physics II	7.5	One Course from Group C	7.5
PHY 225 Quantum Mechanics I	7.5	One Course from Group C or Project II	7.5
PHY 235 Electromagnetism II	7.5	Elective Course III	5
<b>TOTAL 30</b>		Elective Course IV	5
<b>YEAR TOTAL</b>	<b>60</b>	Foreign Language Course II	5
		<b>TOTAL</b>	<b>30</b>
		<b>YEAR TOTAL</b>	<b>60</b>
		<b>GRAND TOTAL</b>	<b>242.5</b>

## GROUP OF COURSES

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### Group A

PHY 302 Advanced Physics Laboratory I  
PHY 322 Advanced Physics Laboratory II  
PHY 341 Electronic Physics

### Group B

PHY 301 Solid State Physics  
PHY 321 Nuclear Physics  
PHY 331 Particle Physics  
PHY 347 Computational Physics  
MAS 003 Elements of Complex Analysis

### Group C

PHY 405 Cosmology and General Theory of Relativity  
PHY 411 Final Year Project I  
PHY 412 Final Year Project II  
PHY 415 Biophysics  
PHY 427 Atomic and Molecular Physics  
PHY 435 Theoretical Physics  
PHY 445 Electronic Systems



# FACULTY OF SOCIAL SCIENCES AND EDUCATION

Dean:

*Savvas Katsikides*

Deputy Dean:

*Eleni Phtiaka*

## DEPARTMENT

- Education
- Law
- Psychology
- Social and Political Sciences







## Faculty of Social Sciences and Education

# ● ● ● ● Department of Education

[www.ucy.ac.cy/edu/en](http://www.ucy.ac.cy/edu/en)

### **CHAIRPERSON**

Leonidas Kyriakides

### **VICE-CHAIRPERSON**

Zacharias Zacharia

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Niki Tsangaridou

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Constantinos Korfiatis

Eleni Loizou

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### **ASSISTANT PROFESSORS**

Charalambos Charalambous

Miranda Christou

Eliada Elia

Elena Ioannidou

Eleftherios Klerides

Stavroula Kontovourki

Stavroula Philippou

Simoni Symeonidou

## MISSION OF THE DEPARTMENT

The mission of the Department of Education is to meet the national, cultural and developmental needs of the island. Specifically, the mission of the Department is as follows:

- Producing and disseminating knowledge in the Pedagogical Sciences.
- The promotion of quality and effectiveness in education.
- The promotion of basic and applied Research in Pedagogical Sciences.
- The provision of evidence-based recommendations, that can contribute to the development of educational and social policy.
- The promotion of gender studies and the development of policy on equality.
- Identifying, researching and studying educational issues.
- Educating elementary and kindergarten teachers for Cyprus schools.
- Providing pedagogical training for those wishing to teach in secondary and technical education.
- Providing in-service training and staff development courses for school personnel.
- Offering graduate programmes, which aim at preparing research personnel and people in taking leadership positions within the educational system.

In order to accomplish its mission, the Department has developed:

- A programme of studies for teacher education, leading to a Bachelor's Degree in Elementary and Kindergarten Education.
- A programme of studies, leading to teacher certification for prospective secondary and technical education teachers.
- Graduate programmes in Educational Administration and Evaluation, Curriculum Studies, Teaching and Comparative Education, Mathematics Education, Natural Sciences, Pedagogical Sciences, Methodology of Mathematics, Special and Inclusive Education, Language Pedagogy, Language and Education, and Gender Studies, leading to Masters and Doctoral degrees.

Furthermore, the Department intends to develop the following programmes:

- New graduate programmes in order to achieve its developmental goals and to also meet existing needs in the Cyprus educational system.
- In-service training and staff development programmes for educators of all levels.

## PROGRAMME OF STUDIES FOR ELEMENTARY AND KINDERGARTEN SCHOOL TEACHERS DEGREES

### Duration and Areas of Studies

For a Bachelor's Degree in Elementary School Teaching or Kindergarten School Teaching, students must successfully complete at least 240 ECTS. The courses are divided into:

- a) Compulsory, with 205 ECTS for elementary school teachers and kindergarten school teachers.
- b) Elective Courses, with 15 ECTS for elementary school teachers and kindergarten school teachers.
- c) Free Elective Courses, with 15 ECTS for elementary school teachers and kindergarten school teachers.
- d) Special Courses of Interest, with 5 ECTS for elementary school teachers and kindergarten school teachers.

### Pedagogical Science

Elementary school teachers must complete nine courses (45 ECTS), of which six courses are Compulsory and three courses are Electives. Kindergarten school teachers must complete twelve courses (60 ECTS), of which nine courses are Compulsory and three are Electives.

### Content Area Courses

All courses are Compulsory (40 ECTS) for elementary school teachers and for kindergarten school teachers.

### Teaching Methodology

All courses are Compulsory. Elementary school teachers must complete thirteen courses (65 ECTS), which three are General Teaching Courses (15 ECTS), nine Content Area and Special Teaching Courses (45 ECTS) and one General and Special Teaching Course (5 ECTS). Kindergarten school teachers must complete sixteen courses (80 ECTS), which five courses are General Teaching Courses (25 ECTS), nine Content Area and Special Teaching Courses (45 ECTS) and two General and Special Teaching Courses (10 ECTS).

### School Experience Programme

#### General Teaching Courses

Elementary School Teachers and Kindergarten School Teachers must complete one general teaching course (5 ECTS).

#### Primary School Education

School Experience consists of three phases:

- Phase I (EDU 229): takes place in the second year of studies, fall or spring semester. Students attend weekly lectures and seminars at the University. Students visit schools and observe school life and lessons.
- Phase II (EDU 329): is conducted during the third year of students' program (fall or spring semester). Students are called to attend weekly lectures and seminars at the University during their practicum. Their presence at school is on a weekly basis, during which they are obliged to

conduct a number of classroom observations and teaching efforts. Each student is placed in a specific class to fulfil his/her obligations to the programme.

- Phase III (EDU 429): takes place in the fourth year of studies, either fall or spring semester. Students attend weekly lectures and seminars at the University. Students visit schools every day and they are placed in separate classes.

### Pre-Primary School Education

School Experience consists of three phases:

- Phase I (EDU 239): takes place in the second year of studies, either fall or spring semester. Students attend weekly seminars at the University. Students visit schools one day per week. A second-year student is placed in the class, where a fourth-year student carries out his/her early field experience.
- Phase II (EDU 339): takes place in the third year of studies, either fall or spring semester. Students attend weekly seminars at the University. Students visit schools one day per week and two students are placed in the same class.
- Phase III (EDU 439): takes place in the fourth year of studies, either fall or spring semester. Students attend weekly seminars at the University. Students visit schools every day and are placed in separate classes.

### Specialization (A and B)

Specialization is required only for the degree of elementary school teachers. Students are required to complete 30 ECTS, 15 ECTS from specialization A and 15 ECTS from specialization B either from the third or the fourth year of studies. Students must select two specialization areas from the following:

#### Specialization A: Greek Language, Mathematics, Science Education

##### Language Arts Education (Greek Language)

The specialization promotes students' in-depth learning in regards to Greek language teaching, through the examination of different epistemological traditions in language arts and literacy education (e.g. linguistic, communicative-functional, sociocultural models), and an emphasis on contemporary approaches to literacy (e.g. new literacies, multimodality, critical literacy). Attention is concurrently paid to methodological issues pertaining to the teaching of language arts, including the teaching of literature, so that students become creative and reflective practitioners by engaging in lesson plan development, text analysis, and the design of instructional material and learning experiences. Students are expected to successfully complete three of the four offered courses (EDU 422 Greek Language Instruction II; EDU 424 Multiliteracies and Multimodalities; EDU 425 Teaching Greek as a Second Language; and, EDU 426 Children's Literature in Education). These courses constitute the space for students' experiential learning, that focuses on the examination of multiple perspectives on language and literacy, and offers them opportunities to gain a broad understanding of current

issues and challenges of language arts and literacy education in and beyond the (Greek) Cypriot context.

### Mathematics Education

This specialization focuses on the in-depth study of contemporary trends in the teaching and learning of mathematics. Students will have the opportunity to explore and reflect on teaching approaches and practices, relevant to the mathematics curriculum in Cyprus. Students will also rely on research findings to discuss students' difficulties in developing mathematical thinking and reflect on instructional practices and methods regarding the use of the available teaching materials and the classroom discourse, by paying particular attention to students' answers. They will also discuss effective ways of integrating digital technologies in mathematics teaching, and of developing activities and educational material.

This specialization route aims at preparing prospective teachers in becoming skillful to address students' difficulties in mathematics, to link effectively mathematical concepts, and to employ appropriate didactical models and tools in order to enhance their students' understanding. Students will develop critical skills for post-graduate studies and will broaden their employment prospects, since mathematics holds an important role both in school curriculum and in everyday life. Students will also develop the knowledge, skills and abilities, that would be valuable in succeeding to any future professional teaching examinations.

The specialization in mathematics education consists of three courses. The course EDU 473 (Didactics of Mathematics II) explores didactic models, representations and practices, relevant to the teaching of mathematical concepts in the domain of numbers and operations. The course EDU 471 (Special Topics in Mathematics Education) gives emphasis on contemporary teaching trends in the domains of algebra, geometry (two-dimensional, three-dimensional, spatial ability), measurement, statistics and probabilities, and problem-solving and posing. Finally, students in the course EDU 472 (Integration of Modern in the Teaching of Mathematics) study purposeful ways in integrating digital technologies in mathematics lessons.

### Science Education

The Science Education specialization aims at offering to students the knowledge and skills necessary for teaching science at the elementary school level. Specifically, the courses of the Science Education specialization provide information about the extant theoretical and practical practices and procedures followed, when teaching science at the elementary school level. The goal is to review the basic methods/approaches, principles and strategies for enacting effectively science teaching and learning.

For completing the Science Education specialization, you need to attend and fulfil the requirements of the following three courses:

EDU 477 Computer Science Applications in the Teaching of Science in Elementary School



EDU 486 Modern Trends in Science Teaching at the Primary School

EDU 488 Current Educational Dimensions of Biology

As shown in the course descriptions of the above courses, the Science Education specialization focuses on topics derived from the extant research of science education. All courses combined aim at providing support to student teachers, that wish to become capable in teaching science at the elementary school level in the future, as well as to follow further (postgraduate) studies in science education.

### **Specialization B: Inclusive Education, Art Education, Music Education, Physical Education, Social Sciences**

#### **Inclusive Education**

The Inclusive Education specialization route offers a range of attitudes and skills, that are useful for all teachers. The three units (EDU 466 Learning Disabilities, EDU 467 Diversity and Exclusion and EDU 468 Special Needs in the Mainstream School) build on the introductory compulsory unit EDU 311 Introduction to Inclusive Education, which is a prerequisite for the specialization route.

The specialization route units equip the students with the theory of inclusive education, encourage the development of basic research skills, and provide opportunities for hands on activities held in the Inclusive Education Lab. In particular, the students get acquainted with the literature about disability in Cyprus and abroad, they become critical thinkers, they learn how to employ strategies to improve teaching for all learners, they are taught how differentiated instruction can be interceded in the planning and teaching (goals, means and materials, content, evaluation), they interact with people with disabilities and their families, and they are involved in developing or improving means and materials intended to facilitate learning for students with disabilities.

The specialization route of Inclusive Education is of interest to all students, primarily because it equips them with knowledge, attitudes and skills, that will make them effective teachers. The added value of this specialization route is that, it opens a range of paths for future employment, while at the same time it prepares them for postgraduate studies, either at the University of Cyprus, or in other universities.

#### **Art Education**

The Art Education courses (specialization area) offer opportunities to student teachers to engage through creative processes in teaching and learning the Visual Arts. The interdisciplinary character of Art Education courses enable participants to interact with various learning environments and incorporate artistic practices involving play, social engagement, visual thinking strategies and research, and the use of multiple mediums, objects and tools (including new technologies) in creating art. The participants are introduced to pedagogical learning in relation to the visual arts, and are empowered to use art and imagination in conceptualizing a more creative and just society. The courses do not require special knowledge

and abilities in the Visual Arts, but are opened to those who would like to incorporate art in their teaching practices (in several settings), or want to proceed to further studies in the field of Visual Art(s) Education.

#### **Music Education**

The overall aim of music specialization courses is to provide a foundation of understanding the principles and processes of teaching and learning music in primary school. The courses are mainly laboratory based, focusing on music education activities and developing creative practices. The students acquire basic knowledge of music and creative expression skills, through the development of their own musical listening skills, performance and improvisation/ composition. Students are expected to develop appropriate skills to support and guide music activities, based on the six core activities: movement, singing, listening to music, performance, improvisation and composition, reading and writing musical notation. Also, to be able to develop appropriate musical activities for specific ages and cognitive levels of primary school children. But also, to implement teaching strategies that promote creativity in music education. And finally, to be able to appreciate and support creative expression and aesthetic education, for their students and themselves, through music.

Each lesson focuses on different areas:

1) EDU 444 Theory and Practice of Music; Creative Approaches

Basic Music Theory, Aural Training and Learning of a musical instrument (besides the recorder), i.e. Guitar. Knowledge of relevant digital technology (i.e. MuseScore, Audacity).

2) EDU 445 Listening, Improvisation and Composition in the Classroom

Procedures and strategies for teaching improvisation and composition in primary school. Study of appropriate musical compositions for the primary school and teaching approaches for developing music listening, as well as listening maps and relevant teaching materials.

3) EDU 446 New Trends in Music Education

Detailed study and practical applications of the main music education approaches. Basic principles of teaching music, organization and planning of music in primary school, practical applications.

#### **Physical Education**

The specialization in Physical Education aims at providing students with the adequate knowledge and skills needed to teach quality physical education. The physical education courses focus on the current trends related to effective teaching of physical education. Specifically, the purpose of the specialization is to provide students the opportunities to learn and develop specific teaching skills related to quality teaching, by taking into account the most relevant theory developments in the field of physical education. Students are also provided with several opportunities to develop a personal philosophy of physical education.



This specialization includes three courses, which combine theory and practice. In particular, the purpose of the first course (EDU 456 Content of Physical Education), is to help students examine thoroughly the content of physical education in primary school. The second course (EDU 457 Methodology of Physical Education) reviews the effective pedagogical skills, that promote student learning and positive attitudes in physical education. Finally, the third course (EDU 458 Current Trends in Physical Education) examines issues concerning teaching physical education and how such issues affect student learning and positive attitudes towards physical education and physical activity. The compulsory course (EDU 376 Elementary Physical Education) is a prerequisite and aims at providing opportunities for students to gain a deeper understanding of the content and pedagogy of physical education in elementary school.

In all three courses of the specialization, a major emphasis is given to the integration of content knowledge with pedagogical knowledge. Specifically, students learn the goals and objectives, as well as the content of elementary physical education. They also study the developmental characteristics of the elementary school children, learn how to design and develop unit and lesson plans that maximize student learning, and develop effective teaching practices. In all three courses of the specialization, a strong integration of content and teaching practice is provided.

Furthermore, it helps students develop specific content and pedagogical knowledge, that will enable them to provide quality physical education programs in elementary schools. Lastly, the specialization provides specific skills and knowledge for those students, who plan to continue graduate studies in the field of physical education pedagogy at the University of Cyprus, or in any other higher institution.

### Social Studies

The specialization in Social Studies as a whole, as well as through the it's the distinct courses comprising it, provides students with an opportunity to study, in-depth, the role and place of various academic fields related to the Social Science and the Humanities in their relation with contemporary phenomena, which concern, influence and dynamically interact with human societies (locally and globally) and consequently with the lives of their pupils. It also provides students with opportunities to reflect upon the processes, with which academic knowledge from the Social Sciences is recontextualised in official school curricula, teaching materials and educational (formal and informal) practices. Students will explore (theoretically and empirically) the ways, in which these phenomena influence different forms of education. They will also have the opportunity to discuss different approaches with which social studies subjects aim at: a) supporting their pupils' understanding of these phenomena, and b) employing them in processes of developing different kinds of literacies. Specialization in Social Studies allows students to develop a deeper understanding of related subjects and may count as a substantial as well as typical qualification for pursuing postgraduate studies in Cyprus and abroad.

For the completion of the specialization, students should complete one of the of the following two subjects:

EDU 390 History and its Didactics

(for those students who have already completed EDU 343 Geography and its Didactics in Primary Education)

EDU 343 Geography and its Didactics

(for those students who have already completed EDU 390 History and its Didactics)

They should also complete two of the following three subjects (EDU 390, EDU 343 and EDU 341 are prerequisites):

EDU 395 Sensitive and Controversial Topics in Social Studies

EDU 396 (New) Technologies and Social Studies

EDU 481 Christian Ethics and Modern World

### Elective Courses

Elementary school teachers and kindergarten school teachers must complete at least 15 ECTS (three courses from two different faculties).

### Foreign Language

In addition to the above courses, students are required to complete 10 ECTS in a foreign language.

## OTHER PRIORITIES OF THE DEPARTMENT

- Establishing the Department in Cyprus, as well as in the rest of the Greek world and Europe. In order to fulfil this goal, the Department currently participates in joint research projects with other universities and international organizations, such as UNESCO, the Council of Europe, the European Union and the Commonwealth. In order to fulfil the same purpose, the Department organizes international conferences, lectures and seminars and the publication of a journal.
- Assisting and promoting school development. This goal will be fulfilled by offering in-service and staff development courses, educational interventions and through the guidance of school personnel in the introduction of new ideas in education.
- Collecting information on the island's educational heritage and the creation of a centre for the study and documentation of the history of Cyprus education. The Department will collect and preserve school documents, official books, as well as textbooks of previous times.

## COURSE DESCRIPTIONS

### EDU 100 Olympic Education (5 ECTS)

The course emphasizes the principles of sport education and Olympism as a practical philosophy. Students can learn and experience the ethical principles of the Olympic Ideal; study key parameters of the Olympic Movement; acquaint themselves with Olympism; and form attitudes aligned to Olympic Ideals. It emphasizes ancient and modern Olympic Games and Sports, and key forums, e.g. International and National Committees and the Olympic Charter, and studies

the history, organization, operation and spiritual content of the Olympic and other Games. Through studying implemented Olympic Education Programmes, it also analyses Olympism and Olympic Education in their application to other disciplines.

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**EDU 101 Theory of Education (5 ECTS)**

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Clarification of concepts (education, training, etc.) and critical genealogies in the discourses of childhood, humanity and education, discipline and schooling. Educational institutions, student and teacher identities and pedagogical theories are contextualised in the crossroads of ideology, politics, social structures, culture and media. Introduction to the pedagogical understanding of dialogue, experience, text and inter-textuality and critical thinking. Readings from Plato, Freire, Giroux, Foucault and others.

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**EDU 102 Education During Infancy (0-3 years) (5 ECTS)**

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The students will study the theoretical aspects of infant development and education combining research and praxis. The course will be structured in a way, that will provide students with practical experiences with children of the ages from birth to three years. Different infant curricula will be analysed and the students will be guided to perform appropriate practices for the specific age group. There will be three hours of practicum in a child care setting-preschool, weekly.

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**EDU 105 History of Education (5 ECTS)**

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Introduction to historiography and the concept of the archive. Grand narratives and nation state. History of education as national myth/heritage/collective memory/liberation narrative. Education and modernity. British rule, education (educational laws, curricula, teacher training) and power (governmentality, racial and ethnic identities, institutionalization of separation). The role of the Orthodox Church and EVKAF in educational politics.

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**EDU 118 Education and Gender (5 ECTS)**

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The course examines the role of educational institutions in shaping and reproducing dominant ideologies on gender and sexuality. Issues, such as the differential socialization of boys and girls, gender and social class, gender stereotypes and the media, achievement and gender, will be the main themes of the course. Furthermore, we will pay particular attention to processes of learning, discipline and school organization which determine expressions of sexuality and reflect dominant perceptions of gender socialization. The course also examines the role of feminist thinking in shaping research in education and shaping current pedagogical practices.

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**EDU 138 Educational Technology (5 ECTS)**

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The course targets the systematic study of the pedagogical value of computer-based technologies as cognitive tools to enhance teaching and learning. Technology is viewed as having an added value in certain instructional situations to help teachers and learners experience deep learning. Emphasis is placed on the development of

technological pedagogical content knowledge for the purpose of designing and developing interactive learning environments, where learners learn with the technology. The course will also develop students' abilities to critically evaluate technology integration models in the classroom by taking into consideration the socio-technical characteristics and/or limitations of the primary educational system in Cyprus.

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**EDU 139 Teaching with Computers in Pre-primary Education (5 ECTS)**

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The aim of this course is to offer students the necessary knowledge and skills to use the computer in kindergarten as a tool for presenting their work and enhancing interaction with the children, and as a cognitive tool to enhance teaching and learning. Through the theoretical and practical study of multiple software for kindergarten, they will develop the skills to assess, make the appropriate choices and use the appropriate methods to teach children the use of these programmes.

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**EDU 148 Educational Robotics (5 ECTS)**

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The course aims at the design and implementation of exploratory learning environments with the use of robots. Main teaching areas include basic concepts of robotics, design of robotic hardware and software, robotic curricula and evaluation methodologies that enable the use of robots in teaching and learning. Emphasis will be placed on the added value of teaching with robots in primary education both in terms of developing students' problem-solving skills and understanding concepts.

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**EDU 158 Web 2.0 Tools (5 ECTS)**

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The pedagogical utilization and integration of Web 2.0 Tools, such as, Wikis, Blogs, Podcasts, and Second Life, in the wider educational system of Cyprus (e.g., pre-school, primary school, etc.). Students will be involved in activities aiming at not only the creation of their own digital material, but also the evaluation of content written by others. Special emphasis will be given on the value of Web 2.0 Tools to create and establish electronic communities of learning and practice aiming at the interaction and collaboration among students, teachers, and other stakeholders for the diffusion and sharing of educational experiences and knowledge.

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**EDU 170 Pre-Math Concepts (5 ECTS)**

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Basic theoretical trends in psychology concerning the development of pre-mathematical concepts in early childhood. The importance of language in the development of the first mathematical concepts. Critical analysis of the arithmetic of natural numbers.

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**EDU 171 Foundations and Fundamental Concepts of Mathematics in Primary Education (5 ECTS)**

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The purpose of the course is to study fundamental mathematical concepts that are necessary to develop conceptual understanding regarding the mathematics curriculum for primary school. Students will study in depth foundational concepts such as number systems, additive

and place value systems, the Hindu-Arabic numeral system, mathematical algorithms, figural numbers, divisibility and Euclidean division, modular arithmetic, odd/even numbers and prime/composite numbers. The concepts are discussed in a historical context with reference to key-historical systems, such as the ancient Egyptian and Babylonian systems, the contributions by the Pythagorians, as well as proof methods.

#### **EDU 175 Natural Sciences in Pre-School Education: Environment - Living Organisms (5 ECTS)**

- Ecosystems: structure and function. Trophic relations and flow of natural elements and energy.
- Biotic patterns, taxonomy and systematics, biodiversity.
- Patterns of interaction: competition, cooperation, symbiosis, predator-prey relationships.
- Types and characteristics of Mediterranean ecosystems.
- Human senses and the environment.

#### **EDU 178 Education, Technology and Society (5 ECTS)**

Culture as an outcome of innovation and development. Science as culture and the role of public understanding in promoting the social and cultural impact of science and technology. Education as a context for the dissemination of science and the integration of people in processes for scientific and technological innovation. Measures of public understanding of science. Education as a mediating process between science and society. Organizational structures for science at European level and the role of educational systems. Science, Technology, Society and innovation processes in Cyprus. Education for foresight methodologies and their role in setting research priorities. The role of education in promoting scientific culture. A critical (re)construction of the public understanding of science and educational implications.

#### **EDU 186 Natural Sciences in the Elementary School: Environment - Living Organisms (5 ECTS)**

- Ecosystems: structure and function. Trophic relations and flow of natural elements and energy.
- Biotic patterns, taxonomy and systematics, biodiversity.
- Patterns of interaction: competition, cooperation, symbiosis, predator-prey relationships.
- Regulation of populations. Adaptive population strategies.
- Types and characteristics of Mediterranean ecosystems.
- Research methodology in ecology: models, field studies and virtual simulations of ecological processes.

#### **EDU 187 Environmental Education (5 ECTS)**

Current environmental issues: greenhouse effect, acid rain, pollution, loss of biodiversity, energy consumption, deprivation of natural resources. Principles, aims and methods of environmental education. Integration of environmental education in the school curriculum.

#### **EDU 201 Introduction to Philosophy (5 ECTS)**

This course explores philosophical concepts, principles, methods and criteria in the study of educational issues. By reference to various schools of thought from antiquity to the present (Presocratics, Plato, Rousseau, Kant, Nietzsche, Dewey, Frankfurt School, Freire) as well as to the assumptions (ontological, anthropological, epistemological, ethical and political) on which educational philosophy is based, it examines 'the why' of education and schooling. It aims to help future teachers acquire a clear awareness of the various aspects of education (aims, content, methods, means, relations between school and society, etc.) and of the importance of philosophy for understanding and debating those aspects.

#### **EDU 202 Early Childhood Pedagogy (5 ECTS)**

Kindergarten as a social institution and its impact on the child's overall development. Emphasis is placed on the socio-emotional aspect of development, the relationship between children and adults, the rights and individualized needs of every child. Reference is made to the multiple roles of the early childhood teachers and their professional actions. An analysis of the teaching process in kindergarten and the organization of the environment along with the development of activities are explored.

#### **EDU 204 Methodology of Educational Research (5 ECTS)**

Basic concepts of educational research. Research stages: understanding the problem, review of literature, methodology, presentation of the results, discussion/conclusions. Measurement scales. Validity and reliability of measurements. Types of research projects: descriptive, correlational, ex post facto, experimental, historical, ethnographic. Writing the research report.

#### **EDU 206 Evaluation of Teachers, Teaching, and School Units (5 ECTS)**

The main aim of this course is to help students study issues related to the evaluation of the educational processes, the evaluation of intervention programmes and education in general. Through this course, students will be acquainted with the theory, practice, and utilization of educational evaluation. The course will cover topics such as: Forms of evaluation and theoretical models; Evaluation of teaching and teacher's appraisal; Programme evaluation; External and School self-evaluation; and Evaluation of educational systems. The political dimension of educational evaluation will also be discussed, as well as the importance of understanding the dynamic character of educational evaluation.

#### **EDU 214 Health Education in Elementary School (5 ECTS)**

The main scope of the course is to provide a theoretical framework, which is vital for elementary school educators as health promoters. It offers a foundation for practice, which aims at encouraging elementary school educators to see the potential for health promotion in their work. Specifically, by the end of the course students are expected:

- To critically discuss the concepts “Health”, “Health Education” and “Health Promotion”.
- To analyse the social and economic factors which determine health status.
- To apply their knowledge in practice, i.e. to establish a health education culture within the elementary school setting.
- To critically discuss the newly reformed Health Education Curriculum for the elementary school.
- To explore national and European Health Education Programmes.

#### **EDU 215 Family and Kindergarten: Relationships and Actions (5 ECTS)**

The course aims at informing students about the socio-emotional aspects of the process that two people go through to become parents, the changes and problems they might face. Students will explore the social, cultural and environmental factors that affect the family, the children and the variety of their experiences. Students will also learn to understand the needs, the expectations and the responsibilities of the family, to provide support and at the same time to educationally guide the family through different programmes. Emphasis is placed on the development of a cooperative relationship between the early childhood teacher and the family.

#### **EDU 216 Health Education in Kindergarten**

The main scope of the course is to provide a theoretical framework, which is vital for pre-school educators as health promoters. It offers a foundation for practice, which aims at encouraging educators to see the potential for health promotion in the nursery school.

Specifically, by the end of the course, students are expected:

- To critically discuss the concepts “Health”, “Health Education” and “Health Promotion”.
- To analyse the social and economic factors which determine health status.
- To apply their knowledge in practice, i.e. to establish a health education culture within the nursery school setting.
- To critically discuss the newly reformed Health Education Curriculum for the nursery school.
- To explore national and European Health Education Programmes.

#### **EDU 218 Sociology of Education (5 ECTS)**

An introduction to basic concepts in Sociology of Education, including the main theoretical perspectives of structural functionalism and conflict theory. More specifically, the course examines the social dimensions of educational institutions (role of social class, race, culture and gender) and their role in promoting equality or reproducing disparities. A recurrent theme in the course is

the question of how individuals are shaped through social structures and institutions and how the educational process provides possibilities for resistance to inequality.

#### **EDU 220 Theory and Methodology of Teaching (5 ECTS)**

Conceptualizations of teaching and learning. Didactics as a scientific field of study. Genealogy of the field of General Didactics within the Education Sciences. Theoretical foundations of teaching within philosophical-pedagogical approaches and eclecticism. Lesson plan design as a problem-solving process and teacher professional autonomy in the classroom. Structure and content of lesson plans (aims and objectives, assumptions-student population, means and materials, children and classroom organization, course activities and forms of teaching, evaluation and assessment). Microteaching as a teacher professional development tool. Developing and enacting lesson plans, observing and reflectively discussing lessons. Discussing conceptualizations of teaching as “good” and “effective”. Contemporary approaches to teaching and learning, e.g. differentiation and individualization of teaching, cooperative learning, cross-curricular approaches, inquiry-based learning, teaching for developing metacognitive, critical and creative thinking.

#### **EDU 221 Early Literacy (5 ECTS)**

The course aims at preparing prospective primary teachers in the area of early literacy, providing them with the theoretical and methodological tools to successfully teach Greek as a first language in the early elementary grades. Teaching language arts to emerging readers means integrating the skills of reading, writing, listening and speaking. The course aims at helping students comprehend literacy as a developing structure and develop a reflective and well-informed philosophy about the teaching of literacy. Several theories regarding the nature of literacy are analyzed and various instructional strategies to facilitate literacy learning for emergent, novice and transitional readers and writers are proposed.

#### **EDU 222 Language Arts Methods (5 ECTS)**

The course aims at providing future educators with the theoretical and methodological tools to successfully teach Greek as a first language (reading, writing, discussing). The course examines various literacy teaching methods, such as traditional grammar/skills-based approaches, text-based approaches, the new communicative approach, as well as the approaches of the reader's workshop and the writing workshop. In addition, sociolinguistic concepts such as diglossia, language and dialect are examined and the functional use of the Greek Cypriot dialect in the Greek Cypriot classroom is considered. Finally, the course addresses issues of assessment and teaching students, whose first language is not Greek.

#### **EDU 224 Forms of Language Expression (5 ECTS)**

This course will help early childhood teachers understand the creative use of language and its role in communication. In the course, students will learn the various theories of



language acquisition and the connection between language and thought; they will learn about early literacy, reading and writing during the early years; they will participate in classroom discussions on the pedagogical value of picture books and poetry. Finally, students will learn to develop methodological approaches to enhancing language use and assessing it, with a good understanding of the different variables that could affect these processes.

#### **EDU 226 Structure of Greek Language for Pedagogical Purposes (5 ECTS)**

The purpose of this course is to examine in detail the phonetic, phonological, morphological, syntactic and lexical properties of Greek, from a synchronic as well as from a diachronic perspective. The objective of the course is to enable the language teacher to critically evaluate models of grammatical description and to functionally integrate the teaching of the structure of Greek in a communicative model of language teaching. Topics include: The concept of linguistic structure. Learning vs Acquisition. The Greek language and its varieties. The phonetic, phonological, morphological and syntactical system of Greek. Vocabulary, writing and orthography. From grammar to discourse.

#### **EDU 238 Design and Technology (5 ECTS)**

Rational investigation of situations and human needs that are related to daily life. Planning of suitable educational interventions, in the frame of which human needs and technological problems are investigated and solutions are sought with the use of available tools and materials and the application of knowledge and skills from various domains. Development of important skills such as inventiveness, decision making and technological problem solving. The course aims at connecting design and technology processes with the teaching and learning environment in the classroom, and at developing the appropriate technological literacy. The course is mainly laboratorial with two-hour meetings per week.

#### **EDU 252 Art Education in Early Childhood I (5 ECTS)**

Introduction to visual art language through exploring materials and artistic processes. Play as part of a creative process in visual arts. Art thinking and expression and its personal, social and aesthetic significance in acquiring a sense of self, place and community. Children's' artistic representations and responses to art.

#### **EDU 253 Play and the Arts (5 ECTS)**

The goal of this course is for students to study the relationship and the connection between play and the arts (e.g. visual arts, music). Through the presentation of the main theoretical perspectives of play and the arts in the context of early childhood education, a framework will be developed in order to unfold pedagogy of play through the arts and arts play pedagogy. The students will experience interactive activities, in reference to the relationship of play, and the arts will be involved in reflection processes, and will implement play activities through the arts, and artistic activities through play with young children.

#### **EDU 254 Arts and Culture (5 ECTS)**

What is included in the arts? In which Arts and Cultures are we referring to? What is the contribution of Arts in the Culture? The course is an introduction to the stories and meanings of Music and Visual Arts across time and cultures. Important artistic movements are examined, while at the same time emphasis is given on the diverse functions of music and visual arts and the political, religious or philosophical ideas behind them.

#### **EDU 258 Early Childhood Music Education I (5 ECTS)**

The process of musical development in young children. Music education methods and their application in a pre-school setting. Teaching techniques, lesson planning, musical literature appropriate for young children. Creative activities through listening, performing and composing. Development of rhythmic and melodic oral skills. Introduction to harmonization and instrumentation techniques, appropriate for early childhood literature. Development of instrumental and vocal skills.

#### **EDU 271 Teaching Methods for the Development of Mathematical Concepts in Primary School (5 ECTS)**

The purpose of the course is the study of fundamental mathematical concepts, that are necessary for mathematics teaching in primary school and of relevant methodological approaches for exploring these mathematical concepts. The topics were selected in order to enhance prospective teachers' conceptual understanding of important mathematical concepts, that are included in the mathematics curriculum. Students explore mathematical concepts in teaching contexts, by elaborating also on the mathematical practices involved in primary school mathematics. Thus, students can comprehend the links between fundamental mathematical concepts and their role in the mathematics curriculum, such as: real numbers, properties of operations, the fundamental theorem of arithmetic, the Greatest Common Divisor, the Least Common Multiple, sequences, binary relations, functions, properties of geometric shapes and geometric transformations.

#### **EDU 286 Natural Sciences in the Elementary School: Physical and Chemical Phenomena and Transformations (5 ECTS)**

Physical and chemical phenomena and changes. States of matter and their structure and properties. Changes of state of matter. Physical and chemical phenomena. Forces, forms of energy, transfer and transformations of energy. Heat, sound, light, magnetism and electricity, their sources, transfer and effects. Emphasis on methods and processes of science and experimental study of phenomena.

#### **EDU 302 Principles and Perspectives of Early Childhood Education (5 ECTS)**

The course offers an examination and analysis of the historical and political periods of early childhood education, and discusses the implementation of current practices and models. Developmentally, appropriate

programmes are examined through theory and practice, and considering children's needs. An introduction to the development of the main principles, that affect the current perspectives on early childhood education. Students will analyse, compare and develop their own point of view about the field of early childhood education, and recognize how early childhood education in different countries responds to the needs of children and their families, through practice and policy.

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#### **EDU 304 Student Assessment in Elementary School (5 ECTS)**

The main aim of this course is to help students study issues related to student assessment in elementary school. Students will have the opportunity to address issues related to assessment methods, instruments, problems and practices of assessment of student performance. Emphasis will be given on written evaluation methods, conducting and recording of student behavior during classroom observations and development of students' self-assessment skills. Students will also learn the basic terminology of educational assessment and the framework in which it may be implemented, as well as the main purposes of assessing student performance, attitudes/beliefs, and skills.

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#### **EDU 305 Student Assessment in Kindergarten (5 ECTS)**

The main aim of this course is to help students study issues related to student assessment in pre-primary education. Students will have the opportunity to address issues related to assessment methods, instruments, problems and practices of assessment of student performance. Emphasis will be given to methods of oral assessment, performance assessment, developing portfolios, conducting and recording of classroom observations and establishing baseline assessment mechanisms. Students will also learn the basic terminology of educational assessment and the framework in which it may be implemented, as well as the main purposes of assessing student performance, attitudes/beliefs, and skills.

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#### **EDU 311 Introduction to Inclusive Education (5 ECTS)**

The course engages student teachers with the theoretical and legislative framework of educating students with disabilities in Cyprus and abroad, and it offers opportunities for the development of critical thinking skills and positive attitudes about disability and diversity issues. Student teachers are expected to know the underlining principles of the philosophies around the education of students with disabilities (segregation, integration, inclusive education), the fundamental models of disability explaining the construction of the concept, the historical, psychological, sociological, legislative, and pedagogical aspects of inclusive education, and the current law about the education of students with disabilities in Cyprus, and the implications stemming from its implementation. Student teachers are encouraged to revisit any prior views and stereotypes about disability, and develop positions and attitudes that are parallel with the theoretical framework of inclusive education and human rights.

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#### **EDU 312 Education and Disability (5 ECTS)**

The course is about engaging student teachers with baseline knowledge, attitudes and skills, that will enable them to educate students with disabilities attending the mainstream school. Student teachers are expected to acquire the basic knowledge about the definitions and educational approaches related to intellectual, learning, sensory, and emotional impairments. The course explores different impairments through a social model approach, and it equips students with critical thinking skills that will enable them to safeguard disabled children's right to quality education in the mainstream school (e.g. organization of the classroom, instructional design, alternative communication, assistive technology, assessment, etc.). The course encourages student teachers' applied experiences in mainstream classrooms.

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#### **EDU 318 Culture and Education (5 ECTS)**

The course is a continuation of EDU 218 and aims at examining current issues in sociology of education, including the impact of the interactionist perspective (micro-perspective). The course will focus on the importance of analysing educational processes, through the negotiation of meanings and symbols, especially as they relate to the status of the learner. The main topics of the course relate to educational issues, which emerge out of contemporary social phenomena such as bilingualism, globalization and immigration, racism and sexuality. An important theme in the course is the production of knowledge (in school, in research settings) and its relation to recurrent forms of power.

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#### **EDU 325 Creative Drama (5 ECTS)**

Creative drama, its characteristics and its differences from drama. The contribution of creative drama to the overall development of the individual and to creative thinking and behaving. Teaching aids required. Familiarization with teaching strategies (drama-playing, improvisation, individual and group work and presentation, tableau-vivant, movement, music, role development, forum-drama, 'teacher in role').

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#### **EDU 331 Mathematics Education (5 ECTS)**

The purpose of this course is to help students become acquainted with the aims, methods, tools, and content of primary school mathematics. The course is based on the content areas of the new mathematics curriculum, namely, Numbers and Operations, Algebra, Measurement, Geometry, Statistics and Probabilities. At the same time, students discuss the mathematical procedures (problem solving, communication, critical thinking, and creative thinking) and the way these are developed in mathematics teaching. In addition, emphasis is placed on the role of the teacher in the mathematics classroom and on the development of effective teaching environment.

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#### **EDU 332 Mathematics Education in Early Childhood (5 ECTS)**

The course aims at helping students become acquainted with the objectives of mathematics in pre-primary

education, the content of mathematics for the kindergarten and the first grades of the primary school, the teaching methods of the subject as they have developed in recent years, the teaching aids, and the contemporary methods of evaluating the mathematical ability of pupils. At the same time, the course will examine the fundamental psychological theories, as they concern the development of primary mathematical concepts in pre-primary school children.

#### **EDU 333 Academic Discourse: Critical Analysis and Production (5 ECTS)**

Writing at an academic level constitutes one of the most important skills, that students need to develop during their studies. It is a literacy practice that raises specific linguistic and cognitive demands, with textual conventions and rhetorical choices, that differ from schools' texts and that are not used in everyday social interactions. This course aims at developing academic literacy, through text analysis and through the examination of the process of text production in various academic communicative situations. Special emphasis will be placed on the study of Greek language phenomena at a phonological, morphological and syntactical level, as well as on common spelling mistakes.

#### **EDU 336 Science Teaching Methods (5 ECTS)**

The basic variables of the teaching-learning process, which have special importance for the teaching of natural sciences at the elementary level based on research evidence. In-depth examination of elementary students' mechanisms of understanding and their preconceptions about physical reality. Design and evaluation of teaching interventions, in an attempt to promote students' cognitive, affective, and psychomotor development and activate their innate capacities.

#### **EDU 341 Theology and Religious Education (5 ECTS)**

God, human beings and nature: the person-centered ontology of Church. Jesus Christ: the incarnation of personhood. Liturgy and liturgy-after-the-Liturgy. The Church in the modern world. Principles and methods of Christian education. Curricula and teaching media. School text books. Modern challenges for Christian education.

#### **EDU 343 Geography and its Didactics (5 ECTS)**

Contemporary epistemological approaches to Geography, as a bridge between the natural and social sciences. The five key themes/topics, upon which the study of space is based and through which key geographical phenomena and concepts are studied. Contemporary views towards geography education (e.g. geographical inquiry, use of geographical information systems), based on spatial thinking and respective geographical analytical skills. Planning and enacting teaching in school geography. Issues of curricula and educational materials for Geography in the primary school.

#### **EDU 348 Social Issues in Kindergarten (5 ECTS)**

God, human beings and nature: the person-centered ontology of Church. Jesus Christ: the incarnation of personhood. The Church in the modern world. Principles and methods of Christian education in the kindergarten. Curricula and teaching media. Introduction to geography. Geographical systems and landscapes. Principles and methods of geography teaching.

#### **EDU 351 Art Education in Primary School (5 ECTS)**

Theoretical studies emphasizing the social and cognitive dimension of Art Education. Images, objects and art works: meanings and functions. Exploration of basic concepts related to Art Education (visual arts, culture, sustainable development- environment, aesthetics). Introduction to visual language through engagement with materials, ideas, images and artistic processes. Children's drawings. Research and practice. Methods, approaches and strategies in Art Education: planning and designing art activities for primary school children.

#### **EDU 352 Art Education in Early Childhood II (5 ECTS)**

The cultural and aesthetic significance of Art. Engagement in art practices emphasizing exploration of materials, contexts and processes through broad themes and contents. Creativity and Play: Basic principles and processes in developing art activities for young children. Teaching approaches and curriculum in early childhood education: Developing art activities.

#### **EDU 363 Music Education in Primary School (5 ECTS)**

An introductory course covering aspects of the field of Music Theory. Musical forms. A basic study of the fundamentals of music theory, form, music history and musical instruments. Development of elementary (basic) singing and instrumental performance skills. Introduction to music curriculum and planning in primary school. Fundamental methods, techniques and materials for the teaching of music.

#### **EDU 368 Early Childhood Music Education II (5 ECTS)**

An introduction to the fundamental elements of Music (rhythm, melody, harmony, form, expression). Musical activities, creative approaches and teaching materials for early childhood music classes. Introduction to music curriculum and planning for early childhood programmes. Beginning instruction in applied music.

#### **EDU 369 Play Learning and Development (5 ECTS)**

The purpose of this course is for students to examine the different pedagogical aspects of the role and importance of play, in the development and learning of children from infancy to kindergarten. More specifically, the different theories and types of play will be presented. Students will investigate the role of the early childhood teacher, in supporting children's play, and the different ways play can be incorporated in the daily schedule at kindergarten.

Finally, students will take on different roles and experience the feelings and knowledge, that one can gain through play.

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**EDU 376 Physical Education in Primary School (5 ECTS)**

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Study of the content, curriculum, and effective teaching skills appropriate for the elementary school. Analysis of teaching methods and approaches of physical education in the elementary school. Study and implementation of principles of motor learning (movement education), effective instructional and managerial skills, unit and lesson planning, and observation of systems of instruction in elementary education. Emphasis is placed on the understanding, analysis, application and harmonization of effective teaching skills, with the content of physical education in elementary school.

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**EDU 377 Physical Education in Preschool Education (5 ECTS)**

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Study of the content of physical education in preschool education. Emphasis is placed on the understanding, analysis and application of the content of physical education in preschool education. Study and application of movement skills appropriate for children of preschool age.

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**EDU 378 Dance in Kindergarten (5 ECTS)**

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The aim of this course is to familiarize students with the idea of using dance and creative movement in kindergarten, as a tool for communication, learning and development. Information on creative programmes, choreographies, traditional and modern dances is provided. Through personal exploration and experimentation, the students will become familiar with expressional movement and will develop skills which will help them to use dance in kindergarten in pedagogically, aesthetically and developmentally ways.

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**EDU 390 History and its Didactics (5 ECTS)**

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The first part of the course deals with History as a way with which human societies relate with the past. In this context the course discusses issues related to the nature of historical knowledge and the processes of its construction and also the role of history in how individuals and groups perceive their own place in the past, the present and the future. The second part of the course examines different approaches in history education, the debates over the place of history in education and also research evidence related to teaching and learning in history. It also discusses how curriculum, textbooks and other educational materials relate to different ideas about history education. The last part of the course focuses on the development of historical literacy (development of substantive knowledge and disciplinary understanding) and also on practical issues related to the teaching of history in primary education (design and teaching of history lessons, development and use of teaching materials, assessment, museums and places of historical interest).

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**EDU 391 English Language Instruction (5 ECTS)**

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The purpose of this course is both to familiarize students with the English Language Curricular in the Elementary School and to provide students with the theoretical and practical aspects of Teaching English to Young Learners (TEYL). The students will discuss issues related to theories of learning, the learning strategies of young children, teaching-learning activities, the classroom methods and techniques to be used when teaching English to young learners, as well as the development of games, songs and visual materials and their use in teaching and assessment of young English learners.

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**EDU 392 Conducting Critical Synthesis of Critical Studies and Reporting Findings (5 ECTS)**

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The main aim of this course is to assist students in examining the role of meta-analysis and study the different methods of conducting a meta-analysis. Specifically, students will have the opportunity to engage in issues regarding the narrative literature review, on one hand, and on the other hand the quantitative synthesis of studies. The role, use and significance of meta-analysis will also be discussed and analysed during this course. Students will also have the opportunity to conduct a systematic review of the literature, through the presentation of relevant software programmes that can be used for conducting a meta-analysis. The general methodology, followed during the two different kinds of meta-analyses (quantitative and qualitative), will also be discussed.

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**EDU 393 Quality of Education and Effective Teaching (5 ECTS)**

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Based on the review of the research data and the theories of qualitative effective teaching, students investigate the term "effective teaching and learning" and the different epistemological roots and practices of the theories. The role of teachers and students is observed, analysed, and evaluated through simulations, video-taped lessons, and micro-teaching.

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**EDU 394 LGBTQ Issues, Youth and Education (5 ECTS)**

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Throughout their lives, in classrooms, youth groups, and other social arenas, the presumption of heterosexuality places an unfair burden on LGBTQ students and youth to silently suffer feelings of exclusion or to "out" themselves. The main goal of the course is to introduce future educators, counselors and policy actors, involved in education and youth policy, to LGBTQ issues. The course offers an interdisciplinary introduction to Queer Theory, Gender and Sexuality Theory, Feminist Theory and Social Movement Theory, and presents academic research, intervention programs in the fields of education and youth policy, and examples of activist action that address gender and sexuality. Special topics to be discussed include: the concept of heteronormativity, homophobia, school bullying and debates surrounding the introduction of LGBTQ sex education in schools. Course Material includes: academic essays, newsprint articles, policy documents, sample LGBTQ curricula, and films.



### **EDU 395 Sensitive and Controversial Issues in Social Studies (5 ECTS)**

Divisive issues for which there is no established or commonly agreed stance; issues that divide societies and for which different groups support conflicting interpretations and approaches based upon different views, values and epistemologies. Cases in which, such issues fuel debates over the role and position of the social sciences in schooling. Different approaches of dealing with such issues, in the context of schooling and of education in relevant school subjects. The role, as well as the potential and challenges for education in History, Geography, Religion and other relevant school subjects in debates over controversial issues: these are issues not traditionally included in official curricula, but are still present and divide societies (constantly or occasionally).

### **EDU 396 (New) Technologies and Social Studies (5 ECTS)**

(New) Technologies of information, communication and entertainment, as an important means of collecting information, constructing knowledge, and forming perceptions and opinions about both the physical and the social world. Different ways in which various technologies participate in this process; different explicit and implicit claims of knowledge validity, which stem from such technologies. The ways in which these technologies create the need for re-viewing the definitions of historical, geographical and religious literacies, so that the latter take into account the changes in the production, publication and dissemination of information, as well as in communications and entertainment. Approaches and methods of including in the teaching of History, Geography, Religious Studies and other relevant subjects of various educational technologies (e.g. educational software and tools); technologies of general use (e.g. geographical information systems, social media, virtual communication environments, electronic games, digital archives); and other cultural artifacts (e.g. film, documentaries, literature, art), as tools of representing, critiquing and constructing the world.

### **EDU 401 Educational Ideals and their Philosophical Grounding (5 ECTS)**

In this course, certain philosophical aspects of pedagogical ideals, which configure educational strategies and curriculum development, will be explored and discussed. Given that all educational practices presuppose some sort of interpretation of woman and the world, our aim is to examine implicit assumptions about the subject of knowledge, the relation of knowledge and power, the transmittable cognitive material (e.g. hegemonic discourses), rational thinking, and school and society. The course will be thematic and will enrich future teachers' theoretical background.

### **EDU 403 Comparative Education (5 ECTS)**

Methodological and epistemological considerations in the field of Comparative Education. Orientalism and postcolonial criticism. Critique of educational borrowing. Globalization, European enlargement and Europeanisation,

European mobility and educational policies. The discourse on the 'conflict of civilizations' and its educational appropriations. Minority education and education in multicultural/ multiethnic societies. Statism, deregulation of state economies, privatization, liberalism, neo-liberalism and educational reforms.

### **EDU 404 Curriculum Development (5 ECTS)**

Introduction to the field. Basic terminology, types and categorizations of curriculum and of currere. Official curricula, educational policy, school curricula and timetables. Curricula as political, social, cultural texts and in context: critical analysis of official curricula from Cyprus, other countries and various institutions/bodies. Developing and implementing curricula at the micro- and macro-level: philosophical orientations, aims and objectives; selection and organization of content; teaching approaches and learning activities; evaluation. Curriculum development and teacher professional identity: teachers as reflective professionals, as researchers, as scientists, as artists. Curriculum reform, review, change and innovation. The hidden curriculum. School textbooks, educational materials and curricula.

### **EDU 412 Organization and Administration of the Educational System (5 ECTS)**

The course offers students a theoretical and a practical perspective in the area of educational administration. The former is achieved through the investigation of the main concepts and theories of educational administration. The latter is addressed through the examination of the structure and operation of the Cyprus educational system. Specifically, students are expected to adopt a critical perspective in the examination of the fundamental principles and theories of educational administration, and evaluate their practical implications for education. Moreover, the course offers an examination of research findings in educational administration and relates them to the effective operation of the school.

### **EDU 422 Greek Language Instruction II (5 ECTS)**

The purpose of this course is to critically examine central aspects of language teaching in primary education; special emphasis is placed on theoretical approaches and the latest developments in language teaching methodology. The objective of the course is to hone the theoretical linguistic and pedagogical background necessary both for integrated and creative language teaching and for developing a critical approach to newly emerging theories and methodologies on language instruction. Topics include: Linguistic competence and communicative competence. The grammar-centered and the communicative approaches to language teaching. Communicative situation, language functions, linguistic structure. Pragmatic and text-centered approaches. Orality and literacy.

### **EDU 424 Multiliteracies and Multimodalities (5 ECTS)**

The course aims at promoting the awareness and comprehension of critical issues regarding the evolving concept of literacy. The definition of literacy is reconsidered, in light of

(a) the new and developing understandings of its complex and multifaceted nature, and (b) the development of new media and technologies, which reshape the literacy needs of modern individuals. In a subsequent phase, the course examines the multiliteracies model, which has been developed in response to the multimodality of modern texts and to the synthesis of important ways of constructing meaning (e.g. different modes).

#### **EDU 425 Teaching Greek as a Second Language (5 ECTS)**

This course focuses on issues arising from the teaching of Greek as a second language. In particular, it examines the concept of bilingualism, from the scope of theoretical linguistics and sociolinguistics, focusing on the difference between the terms acquisition and learning and the wider framework of second language acquisition and teaching. Additionally, a review is carried out of the relevant pedagogical research conducted in Greece, Cyprus and other countries on the teaching of Greek as a second language, examining at the same time the proposed pedagogical models. Finally, the issue of intercultural education is also studied, interwoven in the wider efforts for successfully implementing bilingual and multilingual students in education.

#### **EDU 426 Children's Literature in Education (5 ECTS)**

The aim of this course is twofold: on the one hand it seeks to turn students into active readers of children's literature, and on the other to engage them in pedagogical issues on the teaching of literature in primary education. Hence, it offers the framework for experiential and reflective learning, through the studying of children's books and their writers, for analyzing and creating literary genre and for dealing with methodological issues on the teaching of children's literature in primary school.

#### **EDU 435 Natural Sciences in Early Childhood (5 ECTS)**

The development of preschool-age children's mechanisms of understanding the physical environment and its changes, and employing simple methods and processes of natural sciences. Design of teaching interventions, which can sensitise preschool-age children to the interaction between man and the environment, and develop their readiness and appropriate attitudes for the teaching of natural sciences at the elementary level.

#### **EDU 444 Advanced Topics in Music Theory and Performance, Creative Approaches in the Musical Activities (5 ECTS)**

An intensive study of the fundamentals of music through music theory, basic tonal harmony, ear-training and instrumental drills. Techniques of arranging, voicing and orchestration for primary school chorus and orchestra. Beginning instruction in applied music (second instrument).

#### **EDU 445 Listening, Improvising and Composing in Primary School (5 ECTS)**

An intensive study and analysis of a) listening and b) improvising and composing, as two of the fundamental musical activities for primary school. The experimentation

with literature, materials and techniques, appropriate for the development of these basic musical skills. Musical notation and graphic notation, teaching approaches for listening, improvising and composing, and appropriate literature and materials for primary school children.

#### **EDU 446 Contemporary Trends in Music Education (5 ECTS)**

Selected topics on the philosophical, aesthetic, sociological aspects of the discipline of Music Education. Contemporary trends in the music curriculum and critical review of the existing primary music curriculum in Cyprus. Critical review of the principal music education methods (such as Kodaly, Dalcroze and Orff). Basic principles and practical applications for lesson planning.

#### **EDU 451 Art, Environment and Culture in Education (5 ECTS)**

Art as praxis: Social and critical dimension of Visual Arts. Introduction to Sustainable Art Education: values, meanings and actions. Art in everyday life: art in natural and manmade environments, sustainable living, social life of art. Engagement in art practices in relation to ourselves, each other and the environment. Fieldwork in various settings (natural environments, museums and other places of cultural interest). Place-based Art Education: planning and designing art activities for primary school children.

#### **EDU 452 Contemporary Trends in Visual Arts: Visual Representation in Art and Contemporary Culture (5 ECTS)**

Exploring contemporary issues in the field of Art Education: meanings, purposes and functions of Visual Arts. Technological images and artifacts. Modern and postmodern views of Art Education: Critical Social Theory Foundations and Visual Culture. Multiliteracies and multimodalities in art education. Art through the use of technology (photography, video art): Theory and praxis. Educational approaches and strategies in contemporary art education.

#### **EDU 453 Learning Approaches in Art Education (5 ECTS)**

Contemporary views and theories in Art Education: Multiple and pluralist teaching and educational approaches. Analyzing issues concerned with creativity, inter-disciplinarity, identity and citizenship. Designing and implementing Art Education activities involving children in various settings (e.g. schools, communities, museums).

#### **EDU 456 The Content of Physical Education (5 ECTS)**

The course helps students to understand and examine closely the content of physical education in the primary school. Emphasis is placed on the practical application of the content.

#### **EDU 457 Methodology of Physical Education (5 ECTS)**

Review and application of instructional skills of effective teaching of physical education. Study of learning principles, effective approaches, teaching methods. Planning and evaluation/assessment of student results. Analysis and application of ways of extending the programme of

physical education and incorporation of elements of professionalism in the lesson. Procedures that promote academic learning and development of positive attitudes and experiences for all children.

#### **EDU 458 Current Trends in Physical Education (5 ECTS)**

The course examines current theories of teaching physical education. Study and application of teaching methods and styles of teaching and development of personal philosophy regarding physical education. Analysis of curriculum and teaching models. Emphasis is placed on the study of the basic principles of Olympic education and Sport education. In-depth examination of the interpretation and critical analysis of current scientific facts from around the world.

#### **EDU 466 Learning Disabilities (5 ECTS)**

This course is addressed to students, who have already completed the introductory course entitled EDU 311 Introduction to Inclusive Education. It is one of the three courses, required for students who have selected the specialization route of Inclusive Education, and it is also offered as an elective for Pre-Primary and Primary Education students, who are not specializing in Inclusive Education. The course addresses the basic issues of learning disabilities (such as definitions, characteristics, assessment for teaching purposes and teaching techniques), and focuses on developing skills for differentiation in the mainstream school class.

#### **EDU 467 Difference and Exclusion (5 ECTS)**

A course, which is designed for students who have already taken the introductory course EDU 311. The course deals with the notion of difference/differentiation in education, and examines if and how individual differences constitute a reason for exclusion from the ordinary school. The notion of difference acquires various forms such as gender, behaviour, disability, nationality, etc., which, in the context of the existing system, offer fertile ground for exclusion via labelling. The course covers the theoretical grounding, as well as empirical coverage for this phenomenon.

#### **EDU 468 Special Needs in the Mainstream School (5 ECTS)**

A course, which is designed for students who have already taken the introductory course EDU 311. The course is designed to reinforce the ideas acquired during the introductory course EDU 311. It examines in detail all the stakeholders involved in the process of inclusive education: the pupils themselves, their parents, their teachers, their peers, and it also examines aspects such as legislation and education policy. It offers the opportunity for a direct personal experience, through a feasibility study.

#### **EDU 471 Special Topics in Mathematics Education (5 ECTS)**

The purpose of this course is to develop further prospective teachers' understanding of selected topics in mathematics education and the relevant research methodology. Emphasis will be placed particularly on contemporary didactical approaches in the teaching of algebra, geometry (2-dimensional, 3-dimensional geometry, and spatial

concepts), measurement, statistics and probability. Students will explore new trends in problem-solving and problem-posing, with emphasis in mathematizing and in developing creative and critical mathematical thinking. In addition, students will discuss contemporary trends in mathematical assessment.

#### **EDU 472 ICT Integration in Mathematics Teaching (5 ECTS)**

The purpose of this course is to study the role of contemporary digital tools in mathematics teaching. Prospective teachers explore various digital tools, that can be integrated in mathematics teaching in primary schools, and use them to develop teaching activities. Emphasis is placed on the added value and the potential of digital tools in mathematics teaching. In addition, students discuss ways of integrating haptic devices in mathematics classrooms.

#### **EDU 473 Mathematics Education (5 ECTS)**

The purpose of this course is to help prospective teachers explore didactical models, representations and practices, that pertain to the teaching of fundamental mathematical concepts. The focus of the course lies on the study of contemporary didactical approaches, that deal with natural numbers (the multiple perspectives of number), integer numbers and particularly didactical models for the introduction of negative numbers, rational numbers (the concept of fractions and decimals and operations with rational numbers), conceptual and procedural perspectives regarding arithmetic operations, rates and percentages, as well as proportional problems.

#### **EDU 477 Information and Communication Tools for the Teaching of Science in Elementary School (5 ECTS)**

The course examines ways in which computer technology can support the teaching of science in elementary School. The purpose of the course is to make students aware of the computer, as a simulation instrument and as a research medium, as a medium of applying the scientific method, as a medium to facilitate student interaction with the course subject matter and, finally, as a medium for learning and instruction.

#### **EDU 481 Christian Ethics and Modern World (5 ECTS)**

God, human beings, nature; Sexuality, eros, love; Self-knowledge, sociability, ecology; Politics, economy, labour; Education, art, technology; Genetics, disease, death.

#### **EDU 486 Modern Trends in Science Teaching at the Primary School (5 ECTS)**

Cognitive demands of science curricula and students' cognitive capacity. Educational interventions and cognitive accelerations: Research evidence. Misconceptions in science and the process of conceptual change. Children's science. Support for students' cognitive, psychomotor and affective development. Scientific and technological literacy at the primary school. The importance of experimental science teaching.

### **EDU 487 Methodology of Physical Education in Preschool (5 ECTS)**

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Analysis and application of current teaching methods and approaches of physical education in preschool ages. Study and application of principles of movement education, effective teaching and managerial skills, unit and lesson planning, observation of systems of instruction in preschool education. Application of ways of extending the programme of physical education and incorporation of elements of professionalism in the lesson. Procedures that promote the academic learning and development of positive attitudes and experiences for all children. Emphasis is placed on the harmonization of effective teaching skills, with the content of physical education in preschool education.

### **EDU 488 Contemporary Dimensions of Biology Education (5 ECTS)**

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Life processes. Studying science through living organisms. The theory of evolution and the nature of science. Biotechnology: theory, application and moral issues. Heredity and the environment. Biodiversity and environmental degradation. Genetically modified organisms, current diseases and treatments.

## **SCHOOL EXPERIENCE**

### **ELEMENTARY SCHOOL TEACHER'S DEGREE**

EDU 229 School Experience I (4 ECTS)

EDU 329 School Experience II (6 ECTS)

EDU 429 School Experience III (20 ECTS)

Field experience, with the purpose of familiarizing students with what takes place in a school setting, with planning for instruction and with the various roles undertaken by teachers in school settings.

### **KINDERGARTEN SCHOOL TEACHER'S DEGREE**

EDU 239 School Experience I (4 ECTS)

EDU 339 School Experience II (6 ECTS)

EDU 439 School Experience III (20 ECTS)

Field experience, with the purpose of familiarizing students with what takes place in a school setting, with planning for instruction and with the various roles undertaken by teachers in school settings.

## **SEMINAR - SENIOR THESIS**

### **EDU 490 Seminar - Senior Thesis I (5 ECTS)**

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Planning and executing a study on a topic relevant to Education Sciences, under the guidance and supervision of a faculty member of the Department. The study may be based on empirical evidence and/or on a literature review.

### **EDU 491 Seminar - Senior Thesis II (5 ECTS)**

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Planning and executing a study on a topic relevant to education sciences, under the guidance and supervision of a faculty member of the Department. The study may be based on empirical evidence and / or on a literature review. (Students, who choose to complete a Seminar Thesis, are exempted from two elective courses from any area of the programme of studies).



**TABLE A: PROGRAMME OF STUDIES FOR ELEMENTARY SCHOOL TEACHERS**

**FIRST AREA: PEDAGOGICAL SCIENCES (45 ECTS)**

**Compulsory Courses (30 ECTS)**

EDU 101 Theory of Education	5
EDU 105 History of Education	5
EDU 204 Methodology of Educational Research	5
EDU 218 Sociology of Education	5
EDU 311 Introduction to Inclusive Education	5
PSY 170 Educational Psychology: Child Development and Educational Applications	5

**Elective Courses (15 ECTS)**

EDU 201 Introduction to Philosophy	5
EDU 206 Evaluation of Teachers, Teaching and School Units	5
EDU 318 Culture and Education	5
EDU 401 Educational Ideals and their Philosophical Grounding	5
EDU 403 Comparative Education	5
EDU 404 Curriculum Development	5
EDU 412 Organization and Administration of the Educational System	5
PSY 120 Cognitive Psychology I	5
PSY 101 Developmental Psychology I: Birth and Adolescence	5

**SECOND AREA: CONTENT AREA STUDIES (40 ECTS)**

**Compulsory Courses**

EDU 171 Foundations and Fundamental Concepts of Mathematics in Primary School	5
EDU 186 Natural Sciences in the Elementary School: Environment - Living Organism	5
EDU 226 Structure of Greek Language for Pedagogical Purposes	5
EDU 271 Teaching Methods for the Development of Mathematical Concepts in Primary School	5
EDU 286 Natural Sciences in the Elementary School: Physical and Chemical Phenomena and Transformations	5
CS 002 Introduction to Computer Science	5
MAS 051 Statistical Methods	5
BMG 090 Introduction to Modern Greek Literature or	
LAS 093 Introduction to Modern Greek Language	5

**THIRD AREA: TEACHING METHODOLOGY (65 ECTS)**

**Compulsory Courses**

**General Teaching Courses (15 ECTS)**

EDU 138 Educational Technology	5
EDU 220 Theory and Methodology of Teaching	5
EDU 304 Student Assessment in Elementary School	5

**Content Area and Special Teaching Courses (45 ECTS)**

EDU 221 Early Literacy	5
EDU 222 Language Arts Methods	5
EDU 331 Mathematics Education	5
EDU 336 Science Teaching Methods	5
EDU 341 Theology and Religious Education	5
EDU 351 Art Education in Primary School	5
EDU 363 Music Education in Primary School	5
EDU 376 Physical Education in Primary School	5
EDU 390 History and its Didactics or	
EDU 343 Geography and its Didactics	5

**General and Special Teaching Courses (5 ECTS)**

(choose one from the following courses)

EDU 214 Health Education in Elementary School	5
EDU 238 Design and Technology	5
EDU 312 Education and Disability	5
EDU 391 English Language Instruction	5
EDU 393 Quality in Education and Effective Teaching	5

**FOURTH AREA: SCHOOL EXPERIENCE (30 ECTS)**

EDU 229 Elementary School Teachers Experience I	4
EDU 329 Elementary School Teachers Experience II	6
EDU 429 Elementary School Teachers Experience III	20

**FIFTH AREA: SPECIALIZATION (30 ECTS)**

**SPECIALISATION A' (selection of one area) (15 ECTS)**

**Greek Language**

EDU 422 Greek Language Instruction II	5
EDU 424 Multiliteracies and Multimodalities	5
EDU 425 Teaching Greek as a Second Language	5
EDU 426 Children's Literature in Education	5

**Mathematics**

EDU 471 Special Topics in Mathematics Education	5
EDU 472 ICT Integration in Mathematics Teaching	5
EDU 473 Mathematics Education II	5

**TABLE A: PROGRAMME OF STUDIES FOR ELEMENTARY SCHOOL TEACHERS**

**Science Education**

EDU 477 Information and Communication Tools for the Teaching of Science in Elementary School	5
EDU 486 Modern Trends in Science Teaching at the Primary School	5
EDU 488 Contemporary Dimensions of Biology Education	5

**SPECIALISATION B' (selection of one area) (15 ECTS)**

**Inclusive Education**

EDU 466 Learning Disabilities	5
EDU 467 Diversity and Exclusion	5
EDU 468 Special Needs in the Mainstream School	5

**Physical Education**

EDU 456 The Content of Physical Education	5
EDU 457 Methodology of Physical Education	5
EDU 458 Current Trends in Physical Education	5

**Music Education**

EDU 444 Advanced Topics in Music Theory and Performance, Creative Approaches in the Musical Activities	5
EDU 445 Listening, Improvising, and Composing in Primary School	5
EDU 446 Contemporary Trends in Music Education	5

**Art Education**

EDU 451 Art, Environment and Culture in Education	5
EDU 452 Contemporary Issues in Art Education: Visual Representation in Art and Contemporary Culture	5
EDU 453 Learning Approaches in Art Education	5

**Social Studies**

EDU 390 History and its Didactics or	
EDU 343 Geography and its Didactics (One Compulsory Course, depending on which course the student has selected from the Content Area and Special Teaching Courses)	5
EDU 395 Sensitive and Controversial Issues in Social Studies	5
EDU 396 (New) Technologies and Social Studies	5
EDU 481 Christian Ethics and Modern World	5

**SIXTH AREA: SPECIAL COURSES OF INTEREST (5 ECTS)**

EDU 100 Olympic Education	5
EDU 118 Education and Gender	5
EDU 148 Educational Robotics	5
EDU 158 Web 2.0 Tools	5
EDU 178 Education, Science, Technology and Society	5
EDU 187 Environmental Education	5
EDU 254 Arts and Culture	5
EDU 333 Academic Discourse: Critical Analysis and Production	5
EDU 392 Conducting Critical Synthesis of Critical Studies and Reporting Findings	5
EDU 394 LGBTQ Issues, Youth and Education	5
EDU 481 Christian Ethics and Modern World	5

**SEVENTH AREA: FREE ELECTIVE COURSES AND FOREIGN LANGUAGE COURSES (25 ECTS)**

- Three Elective Courses from two different faculties
- Two Courses of Foreign Language

**SEMINAR-SENIOR THESIS (10 ECTS)**

EDU 490 Seminar-Senior Thesis I	
EDU 491 Seminar-Senior Thesis II	

*Students who choose to complete a Seminar Thesis are exempted from two Elective Courses.*

## TOTAL ECTS FOR THE PROGRAMME OF STUDIES FOR ELEMENTARY SCHOOL TEACHERS

Area of Studies	Compulsory	Department Electives	Free Electives	Special Courses of Interest	ECTS
FIRST AREA: PEDAGOGICAL SCIENCES	30	15	-	-	45
SECOND AREA: CONTENT AREA OF STUDIES	40	-	-	-	40
THIRD AREA: TEACHING METHODOLOGY	65	-	-	-	65
FOURTH AREA: SCHOOL EXPERIENCE	30	-	-	-	30
FIFTH AREA: SPECIALIZATION:					
SPECIALISATION A	15	-	-	-	15
SPECIALISATION B	15	-	-	-	15
SIXTH AREA: SPECIAL COURSES OF INTEREST	-	-	-	5	5
SEVENTH AREA:					
FREE ELECTIVE COURSES	-	-	15	-	15
FOREIGN LANGUAGE COURSES	10	-	-	-	10
<b>TOTAL</b>	<b>205</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>240</b>

**TABLE B: PROGRAMME OF STUDIES FOR KINDERGARTEN SCHOOL TEACHERS**
**FIRST AREA: PEDAGOGICAL SCIENCES (60 ECTS)**
**Compulsory Courses (45 ECTS)**

EDU 101 Theory of Education	5
EDU 102 Education during Infancy (0-3 years)	5
EDU 105 History of Education	5
EDU 202 Early Childhood Pedagogy	
EDU 204 Methodology of Educational Research	5
EDU 218 Sociology of Education	5
EDU 311 Introduction to Inclusive Education	5
EDU 369 Play: Learning and Development	5
PSY 101 Developmental Psychology I: Birth and Adolescence	5

**Elective Courses (15 ECTS)**

EDU 201 Introduction to Philosophy	5
EDU 215 Family and Kindergarten: Relationships and Actions	5
EDU 302 Principles and Perspectives of Early Childhood Education	5
EDU 318 Culture and Education	5
EDU 401 Educational Ideals and their Philosophical Grounding	5
EDU 403 Comparative Education	5
EDU 404 Curriculum Development	5
EDU 412 Organization and Administration of the Educational System	5
PSY 120 Cognitive Psychology I	5
PSY 170 Educational Psychology: Child Development and Educational Applications	5

**SECOND AREA: CONTENT AREA STUDIES (40 ECTS)**
**Compulsory Courses**

EDU 170 Pre-Math Concepts	5
EDU 175 Natural Sciences in Pre-School Education: Environment - Living Organism	5
EDU 252 Art Education in Early Childhood I	5
EDU 258 Early Childhood Music Education I	5
EDU 377 Physical Education in Pre-School Education	5
CS 002 Introduction to Computer Science	5
MAS 051 Statistical Methods	5
BMG 090 Introduction to Modern Greek Literature or	
LAS 093 Introduction to Modern Greek Language	5

**THIRD AREA: TEACHING METHODOLOGY (80 ECTS)**
**Compulsory Courses**
**General Teaching Courses (25 ECTS)**

EDU 138 Educational Technology	5
EDU 220 Theory and Methodology of Teaching	5
EDU 253 Play and the Arts	5
EDU 305 Student Assessment in Kindergarten	5
EDU 312 Education and Disability	5

**Content Area and Special Teaching Courses (45 ECTS)**

EDU 221 Early Literacy	5
EDU 224 Forms of Language Expression	5
EDU 325 Creative Drama	5
EDU 332 Mathematics Education in Early Childhood	5
EDU 348 Social Issues in Kindergarten	5
EDU 352 Art Education in Early Childhood II	5
EDU 368 Early Childhood Music Education II	5
EDU 435 Natural Sciences in Early Childhood	5
EDU 487 Methodology of Physical Education in Preschool	5

**General and Special Teaching Courses (10 ECTS)**

(choose two from the following courses)

EDU 139 Teaching with Computers in Pre-Primary Education	5
EDU 187 Environmental Education	5
EDU 216 Health Education in Kindergarten	5
EDU 238 Design and Technology	5
EDU 378 Dance in Kindergarten	5
EDU 393 Quality in Education and Effective Teaching	5
EDU 425 Teaching Greek as a Second Language	5

**FOURTH AREA: SCHOOL EXPERIENCE (30 ECTS)**

EDU 239 Kindergarten School Teachers Experience I	4
EDU 339 Kindergarten School Teachers Experience II	6
EDU 439 Kindergarten School Teachers Experience III	20

**FIFTH AREA: SPECIAL COURSES OF INTEREST (5 ECTS)**

EDU 100 Olympic Education	5
EDU 118 Education and Gender	5
EDU 148 Educational Robotics	5
EDU 158 Web 2.0 Tools	5
EDU 178 Education, Technology and Society	5
EDU 187 Environmental Education	5
EDU 254 Arts and Culture	5
EDU 333 Academic Discourse: Critical Analysis and Production	5
EDU 392 Conducting Critical Synthesis of Critical Studies and Reporting Findings	5
EDU 394 LGBTQ Issues, Youth and Education	5
EDU 481 Christian Ethics and Modern World	5



**TABLE B: PROGRAMME OF STUDIES FOR KINDERGARTEN SCHOOL TEACHERS**

**SIXTH AREA: FREE ELECTIVE COURSES AND FOREIGN LANGUAGE COURSES (25 ECTS)**

- Three Elective Courses from two different faculties
- Two Courses of foreign language

EDU 491 Seminar-Senior Thesis II

*Students who choose to complete a Seminar Thesis are exempted from two Elective Courses*

**SEMINAR-SENIOR THESIS (10 ECTS)**

EDU 490 Seminar-Senior Thesis I

**TOTAL ECTS FOR THE PROGRAMME OF STUDIES FOR KINDERGARTEN SCHOOL TEACHERS**

Area of Studies	Compulsory	Department Electives	Free Electives	Special Courses of Interest	ECTS
FIRST AREA: PEDAGOGICAL SCIENCES	45	15	-	-	60
SECOND AREA: CONTENT AREA OF STUDIES	40	-	-	-	40
THIRD AREA: TEACHING METHODOLOGY	80	-	-	-	80
FOURTH AREA: SCHOOL EXPERIENCE	30	-	-	-	30
FIFTH AREA: SPECIAL COURSES OF INTEREST	-	-	-	5	5
SIXTH AREA:					
FREE ELECTIVE COURSES	-	-	15	-	15
FOREIGN LANGUAGE COURSES	10	-	-	-	10
<b>TOTAL</b>	<b>205</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>240</b>

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## FREE ELECTIVE COURSES FOR STUDENTS OF OTHER DEPARTMENTS

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	ECTS
EDU 100 Olympic Education	5
EDU 118 Education and Gender	5
EDU 148 Educational Robotics	5
EDU 158 Web 2.0 Tools	5
EDU 178 Education, Technology and Society	5
EDU 187 Environmental Education	5
EDU 254 Arts and Culture	5
EDU 333 Academic Discourse: Critical Analysis and Production	5
EDU 392 Conducting Critical Synthesis of Critical Studies and Reporting Findings	5
EDU 394 LGBTQ Issues, Youth and Education	5
EDU 481 Christian Ethics and Modern World	5

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Faculty of Social Sciences and Education

## ● ● ● ● Department of Law

[www.ucy.ac.cy/law/en](http://www.ucy.ac.cy/law/en)

### **CHAIRPERSON**

Aristoteles Constantinides

### **VICE-CHAIRPERSON**

Constantinos Kombos

### **PROFESSORS**

Andreas Kapardis

### **ASSOCIATE PROFESSORS**

Aristoteles Constantinides

Nikitas Hatzimihail

Constantinos Kombos

Charalambos Papacharalambous

Tatiana-Eleni Synodinou

### **ASSISTANT PROFESSORS**

Costas Paraskeva

### **LECTURERS**

Thomas Papadopoulos

## INTRODUCTION

The Department of Law was founded in 2006. Its mission is to provide quality legal education to the students and the legal world of Cyprus (and, secondarily, Greece and the broader region). The Department of Law is pioneer in the study of Cyprus law and its development within the European context. The study of law in the Department encourages critical legal thinking, through the combination of theory, specialised knowledge and practical spirit. The Department also cultivates research. Its presence in international, European and domestic research activities is already strong, especially in the fields of criminal sciences, international law, European law, and international and European private law. The academic year 2008-2009 marked the launch of the undergraduate programme in Law. The first postgraduate programmes in Law are expected to start in 2018. The Department has been offering Law courses to students from other departments of the University, since the 2006 Fall Semester.

## DEGREE IN LAW (LL.B.)

Undergraduate studies in Law must be rigorous: they must meet the important, complex and social role of jurists, as well as the high requirements of those institutional bodies in Cyprus and abroad, entrusted with the conferral of professional qualifications to Law graduates. The University is entrusted with providing students a comprehensive legal education, acquainting them with the practical and ethical considerations they will face, and instilling in them the necessary legal knowledge and methods. The University of Cyprus Law degree programme contains a strong core of 24 compulsory Law courses, that cover all basic legal subjects. The student's legal education is completed by the selection of elective courses of specialisation (eight or ten, in case students choose to write an LL.B. thesis). Students will develop writing and research skills, through the systematic use of written exercises and semester papers, as this is an important element of both compulsory and elective Law courses. Students who meet certain criteria may opt for preparing a diploma paper (LL.B. thesis). Proficiency in international languages, as well as familiarity with the basic principles of social, economic and political sciences, are vital for the modern European jurist. For this reason, and conforming to university rules, the LL.B. programme is completed with courses in two foreign languages and elective courses from other departments. In this respect, the Department also offers a number of elective courses in English both for Erasmus students and for University of Cyprus law students.

## Compulsory Courses in Law

The programme contains 24 Compulsory Courses (LAW 1xx, LAW 2xx and LAW 3xx codes), comprising a total of 150 ECTS. The compulsory courses in Law cover the basic legal subjects in each legal branch: private law (civil law, business law), public law (constitutional law, administrative law), criminal law, procedural law (civil, criminal, administrative procedure), international law, and European law. Legal Theory (legal history, jurisprudence, legal method) is also a

foundation of the Department's undergraduate studies. In each course, Cyprus positive law is the starting point, placed in a comparative and European context and viewed in the light of policy analysis. The core compulsory courses in Law are taken in the second and third year of studies. The first year covers the introductory and fundamental legal courses. Only the most complex compulsory courses are taught in the fourth year.

## Elective Courses in Law

In the third and fourth year of undergraduate studies, Law students are required to choose eight to ten elective courses (depending on whether they opt for the thesis) offered by the Department. Elective courses target specialized subjects of practical and theoretical interest, and assume adequate command of legal methods and basic legal institutions.

Each year, the Department offers a number of elective courses. Departmental elective courses carry LAW 4xx codes, while other elective courses, open to students from other departments, are coded LAW 0xx. There is no distinction, however, between LAW 4xx and LAW 0xx courses, for the purposes of the undergraduate programme in Law.

## Diploma Thesis

Fourth-year students have the option to undertake a diploma thesis (LL.B. paper) equal to 12 ECTS, instead of two elective courses of the Department. To be admitted to the LL.B. thesis programme, an average grade of 7.5 is required.

## Elective Courses from other Departments and Faculties

The Law programme allows students to take three Elective Courses outside the department, from at least two different faculties of the University during the first year. Each of these courses carry 5 ECTS. Law students are encouraged to take elective courses outside the Department, in order to acquire basic skills and knowledge of social sciences and humanities.

## Courses in Foreign Languages

The graduates of the Department of Law must have adequate command of English and of another foreign language. The programme of studies in Law requires the selection of four courses offered by the Language Centre (students are also able to use one of their elective course option to take another language). During the first semester, students are required to take the course LAN 109 (English for Legal Matters). Regarding the second foreign language (e.g. French, German), students are required to reach level B1 of the Common European Framework for Foreign Languages.



## COURSE DESCRIPTIONS

### Compulsory Courses

#### LAW 101 Introduction to Legal Method and the Study of Law (6 ECTS)

The course aims at a) presenting the major characteristics and principles of the legal system, and b) acquainting the students with the different sources of law and the methods to study them. In this framework, the course explains the important distinction between public and private law, as also the basic rules of the legal order (hierarchy of sources, legislative and judicial procedures). Furthermore, the structure of the legal rule and legal reasoning is presented in broad terms, followed by an introduction to the methods of interpretation of the law. The student is introduced to the legal profession and the skills required to study law.

#### LAW 102 Introduction to Private Law (6 ECTS)

Introduction to Private Law in Cyprus and Europe, aimed at acquainting students with legal thinking and providing them with fundamental legal knowledge. The first part of the course introduces students to the sources, interpretation and fundamental notions of private law; the basic European legal traditions (Common Law and Continental Systems) and how Cyprus law conforms or differs. The second part of the course examines at length questions from the law of persons. The third part presents the other basic subjects and institutions in the private law of Cyprus.

#### LAW 104 Introduction to Criminal Justice (6 ECTS)

The course provides a critique of the criminal justice system. Following an introduction to the topic, it examines the international literature on police and policing in western countries, including police powers, citizens' rights and police corruption. Attention is then drawn to judicial discretion in sentencing in common law countries and sentence severity, penal aims (i.e. rehabilitation, retribution, deterrence, social protection and denunciation). Finally, the course examines the use and impact of imprisonment and other sanctions imposed by the courts on convicted offenders.

#### LAW 105 Constitutional Law I (7 ECTS)

The rationale of the course is to examine the current state of the Constitutional Law of Cyprus. The historical development will be as important in this process as consideration of the future. Constitutional law can no longer be seen in isolation from European law and the constitutional arrangements of other jurisdictions (EU, ECHR). In addition, important aspects of the Constitution are analysed (separation of powers), as well as judicial decisions construing the Constitution (doctrine of necessity, protection of human rights).

#### LAW 106 Law of Contracts I: General Part (8 ECTS)

Contract law is at the heart of private law – a vital introduction to law, the foundation of transactions. Topics include the notion of contract and contractual obligation,

the requirements for the formation of a valid contract, construction of the contract, contractual terms and matters arising in the course of contract performance.

#### LAW 171 European Legal Tradition (6 ECTS)

The course addresses the evolution of law (principally private law) in Europe and the formation of Western legal tradition, from graeco-roman times to present-day European – with emphasis on medieval and early modern law. Western Europe is the course's starting point, with the historical evolution of Greek law and the English Common Law in comparative perspective. The course also presents vignettes from the law of medieval and modern Cyprus.

Basic themes of the course include: unity and diversity in the evolution of European laws; creation and transformation of the learned tradition in law and its central role in the creation of a European legal civilization; the relationship between academic-learned law and legal-social practice; the role of, and relations between ecclesiastical and secular state institutions; and the debates as to the nature of law (is it a technical system of institutions, a constituent of cultural identity, or an agent of social action?).

#### LAW 201 European Union Law I (6 ECTS)

The module introduces the organizational structure of the EU and focuses on its legal system. Specifically, the emphasis is placed on the constitutional principles, that the Court of Justice has formulated, and on the peripheral and interconnected legal premises, that complement the procedural law of the Union. Finally, the approach is one that examines simultaneously the legal response of the national legal orders, on the basis of the analytical hypothesis stating that the evolution of EU law is the product of judicial dialogue.

#### LAW 202 European Union Law II (6 ECTS)

The module concentrates on the substantive law of the EU and on the four fundamental freedoms, with the emphasis being placed on the free movement of goods. In addition, the procedural law of the Union is fully explored and explained, as well as the different aspects of the jurisdiction of the Court of Justice.

#### LAW 205 Public International Law I (6 ECTS)

The course concentrates on the function, the basic concepts and fundamental principles of the international legal system, the means of international law-making and enforcement. It gives an overview of the traditional and contemporary theoretical approaches to international law, and examines the relationship between international law and domestic law in Cyprus and in other jurisdictions, the subjects of international law (states, international organizations, individuals, etc.) and its sources (treaties, custom, etc.). Using the Cyprus problem as a case study, the course emphasizes the fundamental principles of international law, most notably the prohibition on the use of force and its controversial exceptions.

#### LAW 206 Public International Law II (6 ECTS)

The module focuses on the territorial dimension of International Law, with an emphasis on the sovereignty of the Republic of Cyprus and its jurisdiction in maritime zones. It further examines the means and mechanisms of implementing and enforcing international law, the rules of state responsibility, as well as the United Nations and its multiple functions.

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**LAW 213 Family Law (6 ECTS)**

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The course examines the legal institutions governing family and interpersonal relations: formation and dissolution of marriage, relations between spouses, marital property, relations between parents and children, paternity, adoption, institutions for the care of disabled persons. The course also considers procedural matters arising with regards to the Family Law.

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**LAW 216 Law of Property (6 ECTS)**

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The course studies the philosophical and constitutional justifications of property, the concept and basic types of property rights, as well as the general principles governing property law. The emphasis of property law-including this course is traditionally focused on immovable property. The course addresses the historical evolution of the protection of immovable property in Cyprus, the categories of immovable property, the acquisition and the content of ownership and of other real rights, the restrictions of property, the encumbrances over property, the transfer of immovable property. The role of the Department of Lands and Surveys of Cyprus in the field of registration of immovable property is crucial.

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**LAW 241 Criminal Law I: General Part (6 ECTS)**

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After examining the concepts of crime and Criminal Law, the course provides a brief introduction to the historical development of Criminal Law in Cyprus and the aims of the criminal sanction. Attention then turns to the legal concept of crime and the essentials of criminal responsibility. In particular, the course considers the theories on criminal act, the *actus reus* (and respectively the kinds of crimes and the omissions), the *mens rea* (and respectively the kinds of culpability, including recklessness), the problematic of causation and objective imputation, general defences concerning general liability's prerequisites or justification or excuse, finally, the special forms of crime.

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**LAW 307 Private International Law (6 ECTS)**

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Private International Law addresses cross-border relations between individuals: in the courts of which state will the disputes arising from such relations be litigated? Which law should apply? How may a foreign resident be notified of a suit against him? May evidence located abroad be used in court? The course examines first the fundamental concepts and methods for regulating these international private relations (conflict rules, mandatory rules) and the problems in the general theory of private international law (legal characterization, *fraus legis*, *renvoi*, preliminary questions, application of foreign law, public policy). It then considers the individual areas of private law (obligations contractual and in tort, property, family and succession).

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**LAW 311 Company Law (6 ECTS)**

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Business corporations are the principal agent of economic activity in the modern world. After considering the central themes in corporate law, and presenting the basic features of commercial entities (partnerships, companies) in Europe today, the course focuses on the Cyprus Limited Company (LTD). The principal topics include: structure of the business corporation, rights and obligations of partners/shareholders, the role of management and workers, management and representation powers, decision-making processes, company property, dissolution and liquidation, accounting rules and principles.

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**LAW 314 Law of Torts (6 ECTS)**

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The subject of the course is the civil obligations created by unjust and harmful conduct against another person (including its property or legal interest). Taking the Law on Civil Wrongs as a starting point, the course examines specific types of torts, including battery and assault, defamation, and negligence. We consider the grounds for tort liability – intentional harm, negligent conduct, and strict liability. The course also reflects upon the relationship between torts and contractual obligations, as well as property rights, and the role of tort law in modern social and economic life.

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**LAW 318 Law of Succession (6 ECTS)**

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The course examines the substantive and procedural law of succession, testate or intestate: validity of wills, statutory limitations on testator's freedom, interpretation of wills, intestate succession, protection of heirs and third-party rights. The procedures for securing succession and clearing the estate are also covered.

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**LAW 321 Civil Procedure I (7 ECTS)**

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The course studies civil litigation as a comprehensive legal phenomenon. General principles of civil litigation, organization and function of civil courts, role of the legal profession. Available remedies. Commencement of civil proceedings. Court hearings. Court judgments and their enforcement. Admissibility and grounds for appeal.

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**LAW 323 Administrative Law I (6 ECTS)**

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The course presents the definition and sources of administrative law, which is closer to the continental system rather than the common law system. The analysis of basic articles of the Constitution, that constitute a legal foundation for the development of administrative law, is crucial for the understanding of the general principles of administrative law. Also, the analysis of the administrative organization of the state and the presentation of administrative bodies and organizations in Cyprus are essential parts of the course. From the matters of the character and categories of administrative acts to the content and application of Article 146 of the Constitution, which provides for the administrative action review, the course will combine theory with an extensive presentation of case law.

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**LAW 327 Administrative Law II (6 ECTS)**

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The course focuses on the forms of remedies provided in administrative law, in the course of extrajudicial protection of rights afforded to individuals. Particular emphasis is laid on the development of current review mechanisms of acts of the state, as a result of the operation of independent bodies and state officers, such as the Office of the Commissioner of Administration (Ombudsman) or the Office of the Commissioner for Personal Data Protection. Then, emphasis is placed upon the systematic presentation of judicial process, in relation to administrative differences and administrative trial at first instance and during the review process. In this framework, the suspension of administrative acts is also presented.

#### **LAW 331 Contract Law II: Commercial Law (7 ECTS)**

The emphasis of this advanced course on the law of obligations lies in business transactions, as well as commercial papers and the legal treatment of business people. The course also considers the basic principles of commercial law, the relationship and differences between commercial law and civil law. It studies in detail the principal commercial transactions, such as commercial sales, commercial agency, business financing, as well as the basic forms of commercial bills and papers.

#### **LAW 342 Criminal Law II: Special Part (6 ECTS)**

Focusing on the relevant provisions of the Constitution, the Chapter 154 of the Criminal Code and the case law by the Supreme Court, the course considers serious offences against the constitutional order and the international status of the country, crimes against public order and peace, crimes against the legal exertion of state power, against life, health and sexual self-determination and finally, crimes against property and ownership on the one hand and against currency and documents on the other hand. Special attention is given on perpetrations against the person and against the property, according to the priority and detailed elaboration reserved to them in the common law tradition.

#### **LAW 344 Criminal Procedure (7 ECTS)**

Drawing on the Criminal Procedure Law and other relevant provisions and case law by the Supreme Court, the course examines the general principles of criminal procedural law, the jurisdiction arrangements, the pre-trial stage, especially the arrest warrant (including the European Arrest Warrant), the search order and the suspects' rights. Attention then focuses on the intermediary stage (e.g., the detention order, the custody order and the indictment charges). Further, the course considers the trial (summons and subpoenas, procedure in open court, evidence). Special attention is given to evidence, whereby are analyzed the kinds of proofs and examinations, as well as their probatory force, the exclusionary rule and the scope of the freedom of the judicial judgment.

#### **LAW 345 Civil Procedure II (6 ECTS)**

Evidence law addresses the process by which a court may take knowledge and form opinion, as to the factual basis of the case at bar. The course presents the basic categories

of evidence, questions of admissibility. It scrutinises the fact-finding process and the procedural problems arising in legal practice. The role of appeal in evidence matters is also examined. The course emphasizes the basic principles governing evidence law, and insists on the differences between civil, criminal and administrative litigation, as well as on the constitutional dimension of evidence law.

#### **LAW 373 Philosophy of Law (6 ECTS)**

The aim of the course is to examine the philosophical approaches concerning the nature of the law and its bonds with power and ethics. The course explores the division among the positivist and the natural law theories. The ideas of the most important philosophers of modernity, like Hobbes, Kant, Rousseau, Hegel, Marx and Nietzsche on law and the state are also taken into consideration, so that the students better understand the work of major legal philosophers of the 20th century, like Hart, Kelsen, Rawls, Dworkin and Habermas, as well as the contribution of the Legal Realists and the Critical Legal Studies movement.

### **Elective Courses in Law**

#### **LAW 400 Diploma Thesis I (6 ECTS)**

*Prerequisite: Three years of studies in Law.*

#### **LAW 401 Diploma Thesis II (6 ECTS)**

*Prerequisite: LAW 400*

Continuation of the course «Diploma Thesis I».

#### **LAW 405 Criminology (6 ECTS)**

The aim of the course is to introduce students to well-known theories of criminal behaviour and to examine in depth the etiology of serious crimes against persons and against property and, finally, to enable them to be critical in their approach to the phenomenon of crime in society. After an overview of contemporary criminology as a discipline, a number of theories explaining criminal behaviour are discussed: psychological (Freud, Eysenck) and sociological (the Chicago School, differential association, Marxist theory, labelling, and compound theories). Attention is drawn to offenders and crime victims in general.

#### **LAW 406 Legal Psychology (6 ECTS)**

The course considers the contribution of psychology (especially experimental and social psychology) to law in a number of areas. After examining how the gap between psychology and law could be bridged, attention is focused on the factors that impact adversely on the accuracy of eyewitness testimony, children as eyewitnesses, the psychology of the jury, sentencing as a human process and persuasion in the courtroom. Finally, lie-detection methods are considered as are suspect recognition procedures and police psychology. The aim of the course is to equip students with the specialist knowledge and skills required, in order to answer certain questions in law,

utilising knowledge in empirical psychology from a critical perspective.

#### **LAW 407 Economic Crimes (6 ECTS)**

Addressing economic crime from a criminal law and criminological perspective and focusing on particular categories of economic crime, the course first examines the concept of Economic Crime. Attention then focuses on different types of economic crime in Cyprus and overseas. Special attention is paid to offences involving obtaining money by deception and their investigation by the authorities in Cyprus, as well as how contemporary criminology accounts for them. Money-laundering and its relationship with corruption are discussed next. Finally, fraud detection and prevention by auditors are considered, as well as the issue of confidentiality in the lawyer – client and accountant – client relationship.

#### **LAW 408 Organized Crime (6 ECTS)**

The course is offered due to the organized crime's legal and legal-political actuality. It considers the notion of organized crime, especially after the UN Palermo Convention, its differences from classical group crimes, as well as from the economic crime, the procedural consequences of the phenomenon (i.e. intrusive investigative techniques, such as surveillances, exceptions from the protection of privacy, cross-checking of data, etc.) and its correlation with similar crimes like drug trafficking, money laundering and terrorism. The course considers also the most important features of organized crime, especially trafficking in human beings. Finally, special attention is given to the analysis and functioning of the European Arrest Warrant.

#### **LAW 411 Maritime Law (6 ECTS)**

Course subjects include: fundamental principles and concepts in maritime law, sources and historical development of Cyprus and international maritime law, introduction to common shipping policy. Topics include: ship (identification, ownership, flag, exploitation), admiralty jurisdiction, liability and limitations, ship-building sale and purchase, arrest, security rights (ship mortgage, maritime lien), marine insurance, collisions, towage, salvage, marine pollution.

#### **LAW 412 Bankruptcy Law (6 ECTS)**

The course addresses the principles involved in bankruptcy law and company liquidation. The course examines various aspects of the bankruptcy process, including the automatic stay, the avoidance of pre-bankruptcy transactions (e.g. fraudulent conveyances and preferences), the treatment of executory contracts, the debtor's governance structure during bankruptcy, the financing of operations and investments in bankruptcy, sales of assets during bankruptcy, and the process of negotiating, voting, and ultimately confirming a plan of re-organization.

#### **LAW 413 Special Issues in the Law of Obligations (6 ECTS)**

This is an advanced course in the law of obligations, especially contract law. Special types of contracts and complex problems arising in contract law, special topics from the law of obligations, and the problems of concurring contractual and tort liability are studied. The course also examines in depth the so-called quasi-contracts.

#### **LAW 414 Law of Trusts (6 ECTS)**

Trusts are a valuable tool in economic life. The course evaluates the reasons and main occasions for setting up a trust. It also examines the basic types of trust, the legal relations between involved parties (settlor, trustee, beneficiary), the availability of judicial and administrative control over the trust's administration, and the use of so-called international trusts.

#### **LAW 415 Copyright Law (6 ECTS)**

The course examines the legal and institutional framework for the protection of copyright and neighbouring rights in Cyprus and Europe. The basic systems of copyright protection and Cyprus legislation are analysed in the light of technological and legal developments and especially the European Directives. The course also examines theoretical aspects regarding the function and future of intellectual property and its interrelationship with personality rights and community rights. Links are drawn to the growth of new technologies and developments in the fields of information and entertainment industries.

#### **LAW 416 Industrial Property (6 ECTS)**

Industrial property covers technical creations (patents, industrial designs), and distinctive marks (trademarks, labels of geographic origin). The course examines the rationale behind the acquisition of, and choosing between, industrial property rights; procedures for acquisition; economic exploitation of industrial property rights, licensing agreements; available remedies (civil, criminal, administrative) and enforcement measures.

#### **LAW 417 Competition Law (6 ECTS)**

The course covers both unfair competition and antitrust law. It studies the basic principles and institutions of European and national antitrust law, and the relationship between the two. In addition, the course studies the function of the Commission for the Protection of Competition and the judicial review of competition cases.

#### **LAW 418 Financial Law (6 ECTS)**

The course examines transactions concerning the financing of economic activity, as well as the institutional framework for their supervision and regulation. Emphasis is placed on bank transactions, insurance contracts and the operation of stock and commodity exchanges. The course also examines prudential institutions and the regulation of banks, financial and insurance institutions and market exchanges.

#### **LAW 419 Special Issues in Civil Procedure (6 ECTS)**



This is an advanced course in Civil Procedure. Emphasis is placed on special procedures, prerogative remedies and the taking of interim measures. The course also considers the operation of tribunals.

#### **LAW 423 European Business Law (6 ECTS)**

This course aims at scrutinizing the foundations of the internal market of the European Union and, more specifically, at analyzing the EU fundamental freedoms. The course will analyze free movement of goods, free movement of workers, EU citizenship, freedom of establishment, freedom to provide services and free movement of capital. Emphasis will be given on the relevant case law of the Court of Justice of the EU. Harmonization of the internal market will be scrutinized extensively. Various other specialized topics of EU economic integration will also be analyzed: EU company law and corporate governance, EU financial and banking law, EU monetary law and policy, EU consumer law and policy, EU environmental law and policy, EU public procurement, EU employment and equality law, etc. Furthermore, constitutional issues related with the process of economic integration will be discussed. This includes the principle of conferral, the principle of subsidiarity and the principle of proportionality in the context of the harmonization of the internal market. Both theoretical and practical aspects of substantive law of the EU will be analyzed.

#### **LAW 434 Civil Procedure II (6 ECTS)**

This course studies the Cypriot and European legal framework, which applies to mass media and legal questions related to the application of information technology. The course provides a comprehensive and critical approach on various modern topics, which lie in the intersection of different legal branches (private law, commercial law, public law, criminal law). More specifically, the emphasis of the course lies on the constitutional protection of freedom of expression, the analysis of the legal regime of television and radio media services and of the rules for advertising.

#### **LAW 441 European Public Law (6 ECTS)**

The course concentrates on the nature, meaning and different manifestations of European Public Law, as an independent and autonomous field of study. The multi-directional character of exchange of influences is analysed in detail, with specific reference to the protection of human rights, locus standi, the Ombudsman, principle of proportionality, legitimate expectations, access to documents and constitutional law in general. The course examines EPL as a dynamic process of exchange of influences between the EU, national legal systems and the ECHR, and it is from this perspective that a comparative analysis is undertaken.

#### **LAW 443 Employment Law (6 ECTS)**

The course studies issues related to Employment Law in Cyprus, and how it is being shaped in light of European harmonization. Beginning with the doctrine of

employment at will and its exceptions, the course considers public policy and private rights (as well as constitutional provisions) as limitations on the employer's power to discharge and manage employees. The course also considers the basics of employment discrimination law, some legal issues arising before and after employment (employment references, covenants not to compete), the law governing wages and hours and questions of welfare and social security law.

#### **LAW 445 Ecclesiastical Law (6 ECTS)**

The course concentrates on Ecclesiastical law, the relationship between the Church and the State and on the nature of religious freedom, as well as on procedural matters of the organization of the Church.

#### **LAW 447 Environmental Law (6 ECTS)**

The course aims at presenting the basic principles and rules of the legal protection of the natural environment, as they have been formulated by international conventions and European Law. Students are also introduced to relevant regulations of Cultural Law (protection of antiquities, etc.), as also Planning – Building Law. Concepts, such as biodiversity and ecosystem, as also fundamental principles, such as the precautionary principle and sustainable development, which have become necessary parameters of economic development, are explained and analysed.

#### **LAW 449 Tax and Fiscal Law (6 ECTS)**

The course studies substantive and procedural tax law, as well as the legal aspects of public finance. The general principles of tax law, its position within the legal system, the concept and types of taxes, the basic concepts in taxation systems, and the constitutional and the legal boundaries of the state's power to levy taxes are examined. The course considers Cyprus taxation law against the international and European background. The administrative and judicial remedies available are also examined.

#### **LAW 452 International Economic Law (6 ECTS)**

The aim of this course is to acquaint the students with the concepts, institutional structure, legal rules and policies of international economic relations. It will begin with the trajectory of international economic cooperation and will then critically present the hybrid character of international economic law (IEL), with an emphasis to the sources and the actors of IEL. The course will then focus on specific fields of IEL. It will give emphasis on the basic principles and legal rules of international trade law, particularly the General Agreement on Tariffs and Trade (GATT) and the institutional role of the World Trade Organization, especially with regards to the settlement of trade disputes. The course will also give an overview of the substantive rules of international investment law as well as the dispute settlement procedure of the International Center for the Settlement of Investment Disputes (ICSID). Lastly, the normative and institutional framework of international monetary and banking law will be briefly presented.

#### **LAW 453 Law of the United Nations (6 ECTS)**

The course aims at familiarizing students with the United Nations' role, function and powers in the contemporary world. It examines the purposes and principles of the UN, the structure of the Organization and concentrates on UN (in)action in the fields of international peace and security and peaceful settlement of disputes, as well as human rights and development. It emphasizes UN peace operations, including UNFICYP, and the legal problems arising from their increasingly expanding activities.

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**LAW 455 International Criminal Law (6 ECTS)**

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The course examines the historical development, the notion and general characteristics of International Criminal Law, and the major international crimes (genocide, war crimes, crimes against humanity, etc.). It further examines the basic elements of individual criminal responsibility, criminal prosecution and punishment in the case-law of domestic and international criminal courts. Finally, the course attempts a critical evaluation of the use and effectiveness of the system of international criminal justice.

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**LAW 456 Moot Court (6 ECTS)**

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The course prepares students to argue a hypothetical case on various issues of law, as if before international and/or domestic tribunals, such as the International Court of Justice. Students are guided on drafting written briefs in English and then defending their arguments orally, before panels of judges in the course of various moot court competitions held abroad. The most prestigious such competition is the Philip C. Jessup International Law Moot Court Competition, which takes place in spring in the US capital, Washington D.C.

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**LAW 457 International Human Rights Law (6 ECTS)**

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The course aims at introducing and familiarizing the students with the origins, basic concepts and categories of human rights in international law as well as the sources, principles, mechanisms and critiques of human rights protection in Europe and worldwide. In this respect, it examines civil and political rights as well as economic, social and cultural rights, development and human rights, the principle of equality and non-discrimination, group rights and focuses on the right to life and the prohibition of torture.

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**LAW 459 International Development Law (6 ECTS)**

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The aim of this course is to acquaint the students with the concepts, policies, rules and institutions of international cooperation for development and for elimination of poverty worldwide. It will begin by a critical approach to the concept of development, from its colonial origins and its early understanding as industrialization and economic growth to its contemporary conceptualization as sustainable development and human development. The course will then examine the trajectory of international development cooperation, with emphasis on the role and work of the relevant UN organs and the International Financial Institutions and will focus on recent developments including the Millennium Development Goals project and the Sustainable Development Goals. It will

further examine the role of international economic law, the modalities of development cooperation such as official development assistance, trade and development and debt relief. Finally, it will focus on the interrelationship between development and human rights, the rights-based approach to development, economic and social rights and the right to development.

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**LAW 461 International Business Law (6 ECTS)**

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Introduction to the basic types of cross-border business transactions, the international legal framework governing them and the – judicial and alternative – methods of business dispute resolution. Topics include the institutions and sources of international commercial law, elements of international economic law, international sale of goods, uniform rules and trade usages for the sale and transport of goods, basic types of commercial documents, basic types of transactions for the distribution of goods and services or the financing of international business transactions, legal negotiation and methods for dispute resolution such as international commercial arbitration.

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**LAW 462 European Private Law (6 ECTS)**

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European integration affects every aspect of our social and economic life. This course examines the role of European integration in the transformation of the private law in the member states, especially in Cyprus. The introduction examines the institutional dimension of European Private Law, the underlying debates on unification-harmonization of laws and the methods used. The course will then deal with three specific topics: the general part of contract law, consumer protection, and contracts on financial services.

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**LAW 463 Comparative Law (6 ECTS)**

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The course addresses legal diversity and the method for studying foreign legal systems and comparing legal institutions. The course examines the basic characteristics of a legal system (legal sources, administration of justice system, notions of law, legal education and organization of the legal subject matter in fields, outside influences), the categorization of legal systems in "legal families" and the use of defining notions, such as legal system, legal tradition, legal culture. We also consider the methodology of comparative research (micro- and macro- comparison). The second part of the course presents the basic European legal systems, and vignettes from American law and Japanese law.

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**Law 464 Alternative Dispute Resolution (6 ECTS)**

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The course combines the theoretical/interdisciplinary perspective on dispute resolution, with the practical/workshop dimension. Theoretical and policy discussion on dispute resolution is followed by negotiation and mediation exercises.

## ANALYTICAL PROGRAMME OF STUDIES

	ECTS		ECTS
<b>FIRST YEAR</b>		<b>THIRD YEAR</b>	
<b>Fall Semester, 28 ECTS</b>		<b>Fall Semester, 30 ECTS</b>	
NOM 101 Legal Method	6	NOM 321 Civil Procedure I	7
NOM 102 Introduction to Private Law	6	NOM 342 Criminal Law II: Special Criminal Law	6
NOM 104 Introduction to Criminal Justice	6	NOM 311 Company Law	6
ΓΛΩ 109 English for Legal Matters 5		NOM 4ββ Departmental Elective Course	6
ΓΛΩ ααα Foreign Language I	5	XXX βββ Free (cross-registering) Elective	5
<b>Spring Semester, 30 ECTS</b>		<b>Spring Semester, 31 ECTS</b>	
NOM 105 Constitutional Law I	7	NOM 373 Philosophy of Law	6
NOM 106 Law of Contracts I: General Law of Contracts	8	NOM 327 Administrative Law II	6
NOM 213 Family Law 6		NOM 343 Criminal Procedure	7
ΓΛΩ βββ Foreign Language II	5	NOM 4γγ Departmental Elective Course	6
XXX ααα Free (cross-registering) Elective	5	NOM 4δδ Departmental Elective Course	6
<b>SECOND YEAR</b>		<b>FOURTH YEAR</b>	
<b>Fall Semester, 30 ECTS</b>		<b>Fall Semester, 30 ECTS</b>	
NOM 201 European Union Law I	6	NOM 333 Law of Contracts II: Commercial Law	7
NOM 205 Public International Law I	6	NOM 4εε Departmental Elective Course	6
NOM 241 Criminal Law I: General Criminal Law	6	NOM 4ςς Departmental Elective Course	6
NOM 325 Administrative Law I	6	NOM 4ζζ Departmental Elective Course	6
NOM 216 Property (Land) Law	6	XXX γγγ Free (cross-registering) Elective	5
<b>Spring Semester, 31 ECTS</b>		<b>Spring Semester, 30 ECTS</b>	
NOM 202 European Union Law II	6	NOM 307 Private International Law	6
NOM 206 Public International Law II	6	NOM 345 Civil Procedure II: Evidence Law	6
NOM 214 Law of Torts 7		NOM 4ηη Departmental Elective Course	6
NOM 245 Constitutional Law II: Fundamental Rights	6	NOM 4θθ Departmental Elective Course	6
NOM 4αα Departmental Elective Course	6	NOM 4ιι Departmental Elective Course	6

## ELECTIVE COURSES

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	ECTS		ECTS
LAW 405 Criminology	6	LAW 441 European Public Law	6
LAW 406 Legal Psychology	6	LAW 442 Comparative Constitutional Law	6
LAW 407 Economic Crimes	6	LAW 443 Employment Law	6
LAW 408 Organized Crime	6	LAW 445 Ecclesiastical Law	6
LAW 411 Maritime Law	6	LAW 447 Environmental Law	6
LAW 412 Bankruptcy Law	6	LAW 448 Cyprus Public Law	6
LAW 413 Special Issues in the Law of Obligations	6	LAW 452 International Economic Law	6
LAW 414 Law of Trusts	6	LAW 453 Law of the United Nations	6
LAW 415 Copyright Law	6	LAW 455 International Criminal Law	6
LAW 416 Industrial Property	6	LAW 456 Moot Court	6
LAW 417 Competition Law	6	LAW 457 International Human Rights Law	6
LAW 418 Financial Law	6	LAW 459 International Development Law	6
LAW 419 Special Issues in Civil Procedure	6	LAW 461 International Business Law	6
LAW 420 Tax and Fiscal Law	6	LAW 462 European Private Law	6
LAW 423 European Business Law	6	LAW 463 Comparative Law	6
LAW 434 Media and Computer Law	6	LAW 464 Alternative Dispute Resolution	6

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Faculty of Social Sciences and Education

## ● ● ● ● Department of Psychology

[www.ucy.ac.cy/psych/en](http://www.ucy.ac.cy/psych/en)

### **CHAIRPERSON**

Georgia Panayiotou

### **VICE-CHAIRPERSON**

Marios Avraamides

### **PROFESSORS**

Irene-Anna Diakidoy

Stelios N. Georgiou

Timothy C. Papadopoulos

Athanasios Raftopoulos

Fofi Constantinidou

### **ASSOCIATE PROFESSORS**

Marios Avraamides

Georgia Panayiotou

Georgios Spanoudis

Charis Psaltis

### **ASSISTANT PROFESSORS**

Kostas Fantis

Panayiotis Stavriniadis

Maria Karekla

Irini Kadianaki

### **LECTURERS**

Michael Lombardo

Michalis Michaelides

## INTRODUCTION

The Department of Psychology is a vital Department, that aims at constantly being at the forefront of teaching and research. It offers a degree in Psychology, which allows its graduates to further specialize in a psychology area and practise the profession of Psychology in accordance with the current legislation, or follow an academic or research track. For graduates not interested or not able to continue their studies on a post graduate level, there is a variety of professions for which a Psychology degree is useful. The Department focuses on research in many areas of Psychology and especially in Educational, Cognitive, Developmental, Clinical and Social Psychology, areas for which it offers graduate programmes of study.

## PROGRAMME STRUCTURE

The Psychology Degree consists of 240 ECTS distributed among Compulsory and Elective Courses.

Courses with codes starting with 100 are credited with 5 ECTS, because they are open and can be taken as Elective Courses by students from other departments. The remaining courses are credited with 6 ECTS, except laboratory courses, which are credited with 7 ECTS. Research courses (PSY 350, PSY 450) are credited with 3 ECTS. The Undergraduate Thesis (PSY 490, PSY 491) is credited with 12 ECTS.

The programme structure allows students the flexibility of either selecting courses in a variety of psychology areas, or studying one area in depth. The Compulsory Courses ensure that, students cover the basic material necessary to continue on to graduate programmes or to seek employment.

## COURSE DESCRIPTIONS

### PSY 100 Introduction to Psychology I (5 ECTS)

Psychology is the scientific study that aims at describing and explaining human behaviour. More specifically, the science of psychology investigates the thought processes, feelings and behaviours of human beings, based on the interaction between biology and environment. The goal of this introductory course is to offer certain scientific answers to fundamental questions about the following subjects: development, learning, perception, memory, thought, language, motivation, emotions, personality, psychotherapy, and social interaction. In addition, this course offers review and discussion of theories and methods in different areas of Contemporary Psychology, such as Biological, Developmental, Cognitive, School, Social, and Clinical Psychology.

### PSY 101 Developmental Psychology I (5 ECTS)

The course examines human development from conception to adolescence and the factors that affect it. The basic theories of Development (Biological, Cognitive Development, Psycho-Dynamic, Behaviourism) are presented and discussed. The physical, cognitive and socio-emotional characteristics of the individual, during the different stages of development, are also examined. Some of the particular

topics, that are included in the course, are the following: research methods, individual differences, and their assessment, genetic and environmental factors that influence Human Development, Cognitive Development, development of personality, Moral, Social and Emotional Development.

### PSY 102 Social Psychology I: Introduction to Social Psychology (5 ECTS)

The course aims at introducing students to Social Psychology and exploring the basic fields of Social Psychological Research. It also aims at the familiarization of students with classical studies in Social Psychology, the history of Social Psychology and selected fields of Social Psychological Research, like Social Behaviour and Intrapersonal Processes, Group Processes, Social Influence, Inter-Group Relations and the reduction of prejudice, and Social Representations. Special emphasis will be placed on the development of gender and national identity, as these are articulated at different levels of analysis.

### PSY 103 Clinical Psychology I: Theories of Personality (5 ECTS)

Basic theories of personality development will be discussed in this course, including Type-and-trait Theories, Factor Theories, psychodynamic, behaviouristic and humanistic theories. Issues related to personality evaluation and therapy will also be examined.

### PSY 113 Work & Organizational Psychology (5 ECTS)

The course of Work and Organizational Psychology contributes to our understanding of human behaviour in the workplace and covers both personnel issues, such as selection and training, and organizational issues, such as decision making and organizational change and development. It explores the changing composition of the workforce, economic conditions and the effects of technology on the nature and content of jobs. Among the topics covered are research methods, principles and practices of work and organizational psychology, employee selection principles and techniques, performance appraisal, training and development at work, leadership and management in organizations, organizational change and organizational culture.

### PSY 118 Fundamentals of Human Sexuality (5 ECTS)

The course aims to provide both theoretical and practical information based on recent research studies related to Sexual Reproduction, Sexual Health and Illness, Familial and Erotic Factors of Sexuality, as well as the effect of religion in the growth of sexuality of the individual. Finally, the most important aim of this course is to assist students in living a healthy sexual life and develop a critical stance towards erroneous, stereotypical and malicious information around issues of sexual health.

### PSY 120 Cognitive Psychology I (5 ECTS)

The course will provide a basic overview of the main areas of research in the field of Cognitive Psychology. The most important theories and findings from the areas of

Attention, Perception, Memory, Mental Imagery, Knowledge Representation, Problem Solving, and Decision Making will be discussed. Through optional participation in empirical experiments, students may become acquainted with the methods and procedures of conducting research in the field of Cognitive Psychology.

#### **PSY 123 Psychology of Motivation (5 ECTS)**

The main topics concern external and internal motivation; motivation and learning process; motivation and goal achievement, school (academic) performance, attribution and its relation to school performance, locus of control and self-concept. Means of motivating students, teachers and parents.

#### **PSY 131 Psychology of Mourning (5 ECTS)**

The course examines the psychological parameters of loss, death, and mourning and their history in different cultural groups. Emphasis is placed on mourning stages and their meaning.

#### **PSY 132 Psychology of Happiness and Adaptive Behaviour (5 ECTS)**

The aim of this course is to examine the characteristics of happy and well-oriented people and the essential skills needed to confront everyday problems. Techniques of stress confrontation, skills in interpersonal relations, management of negative feelings and health maintenance will be addressed, in a way that can be helpful to the personal, everyday life of students.

#### **PSY 170 Educational Psychology I: Child Development and Educational Applications (5 ECTS)**

The course examines psychological applications in the educational process. The following specific topics are included in this discussion: Child Development – cognitive, emotional, social, the work of Piaget, Bruner and Vygotsky, as well as neo-piagetians, the context of development, importance of the family and school, motivation, attributions and self-efficacy. Group dynamics and classroom management.

#### **PSY 200 Psychobiology I: Biological Bases of Behaviour (6 ECTS)**

The course examines the relation between Biology and Behaviour, the effects of philosophy and biology on psychophysiology. It offers a general view of anatomy, physiology and pharmacology of the Central Nervous System (CNS) and an explanation of how the CNS affects behaviour. The role of the CNS in aggressiveness, sleep, sexuality and reproduction, nutrition, learning and memory is discussed. A general reference is made to the biological role of psychiatric disorders like stress, depression and psychosis.

#### **PSY 203 Memory (6 ECTS)**

This course aims at providing students with an understanding of the main cognitive processes that underlie memory. The course will offer an in-depth examination of how people encode in memory different

types of information (e.g. verbal, spatial, visual), and how they recall this information from memory to carry out various everyday tasks. Among the topics, that will be discussed, are: Iconic and Acoustic Sensory Memory, Short-term Memory, Working Memory, the various types of long-term memory (e.g. Semantic, Procedural, Explicit and Implicit Memory), forgetting, and retrieval. Recent findings about amnesia and memory loss due to ageing will also be presented.

#### **PSY 204 Methodology I: Descriptive Research (7 ECTS)**

The course provides students with the basic knowledge and skills that are related to descriptive research in general, with particular emphasis on the relevant studies conducted in Psychology. Taking into consideration the philosophical and epistemological foundations of acquiring truth and reality, students are introduced to the various research designs of Psychological Descriptive Research. It is expected that students will acquire the skills to critically evaluate the findings of scientific research. It is also expected that the students will acquire basic skills of designing and conducting psychological descriptive research.

#### **PSY 208 Health Psychology (6 ECTS)**

Health Psychology is the area of research and application, that focuses on theories, methods and techniques related to health and illness. This course examines Bio-psychosocial Models, that describe the processes leading to the maintenance of health and the promotion of the psychological well-being of physically ill persons. The course also identifies the psychological and physiological responses of the individual, within the social context in which the relevant health behaviours occur.

#### **PSY 216 Introduction to Psychoacoustics (6 ECTS)**

The course will present the Anatomy and Physiology of Hearing, focusing on Auditory Processing for language perception. Methods of evaluation of Auditory Function, and Auditory Disorders (learning disabilities) will be detailed. Effects of auditory disorders on language and speech development, perception of oral and written language, and academic achievement will be presented, in order to justify intervention for improvement of auditory function and optimization of learning ability.

#### **PSY 217 Family Psychology (6 ECTS)**

The aim of this course is to present topics that are included in the four basic dimensions of Family Research: psychological, cultural, educational and clinical. Within the psychological dimension, the following topics are explored: parental role, adoption, family violence, divorce, reconstituted families, effects on children. Within the cultural dimension, the traditional family and its influences on the contemporary family are discussed. The educational dimension explores the relationships between the family and other institutions, such as the school and the community. Finally, within the clinical dimension, various family therapy theories and applications are presented and discussed.

### **PSY 220 Clinical Psychology II: Abnormal Psychology (6 ECTS)**

The course is an Introduction to Psychopathology. It presents the various criteria for the diagnosis of psychological disorders, their characteristics, possible etiology, and approaches to assessment. Systems of classification are addressed, as well as the criteria that distinguish normal from abnormal behaviour. The course views psychological disorders as the consequences of psychosocial, biological and hereditary factors. Contemporary and effective treatments are also briefly discussed.

### **PSY 223 Psychology of Individual Differences (6 ECTS)**

The course will provide a broad overview and general introduction to the field of Individual Differences. Emphasis is placed on the use of genetic designs and research applications, to study differential behaviour within various psychological domains. The course will introduce students to the principles of Psychometric Testing, and will also present and discuss some of the important psychological constructs on which humans differ, i.e. cognitive abilities, personality, learning disabilities, and psychopathology.

### **PSY 301 Experimental Psychology Methods (7 ECTS)**

The course will provide students with the knowledge needed to design experiments and to collect, analyse, and interpret experimental data. During this course, students will acquire skills in using the SPSS statistical package to analyse data, and they will gain experience in preparing scientific manuscripts that follow the guidelines of the American Psychological Association (APA). Through in-class analyses and discussions of experiments from various concentrations of research in Psychology, the course aims at promoting students' critical thinking.

### **PSY 305 Behaviour Analysis and Modification (7 ECTS)**

An introduction to the Assessment of and Intervention in Behavioural Problems in the areas of clinical practice, work, and education. Structured observation, recordings and analysis of behaviour will be presented. Learning theories, including Classical and Operant Conditioning, will be discussed, and reinforcement and punishment principles will be studied. Single Case-study Methodology and ABAB experimental design will also be discussed. Throughout this course, students are expected to develop an individualized behaviour modification plan to modify a personal area of need. This course requires laboratory participation.

### **PSY 306 Introduction to Psychology II: Deontology and Ethics in Psychology (6 ECTS)**

Psychologists adhere to ethics codes and to the rules and procedures used to implement them. Psychology students should be aware that the ethics codes may be applied to them by state psychology boards, or other public bodies. The Ethics codes apply to psychologists' work-related activities, that is, activities that are part of the psychologists' scientific and professional functions or that are psychological in nature. Thus, in this course, the principles of competence, integrity, professional and scientific

responsibility, respect for people's rights and dignity, concern for others' welfare, and social responsibility are closely examined.

### **PSY 307 Counselling Psychology (6 ECTS)**

The course examines the basic theories of Counselling that are appropriate for use with non-clinical populations. Interviewing techniques are presented, analysed and practiced by the students. Other individual and group counselling methods are also discussed.

### **PSY 314 Developmental Psychology II (6 ECTS)**

The course examines human development from a life-span perspective. Special emphasis is placed on the basic characteristics of adolescence (biological, cognitive, social and emotional). Adolescent problems, such as the relationship to authority, substance abuse, eating disorders, etc., are also described and discussed. Finally, the course discusses issues related to growing up, maturity and old age.

### **PSY 315 Social Psychology II: Intergroup Relations and Social Representations (7 ECTS)**

This course will focus on two central fields of Social Psychology: Inter-Group Relations and Social Representations. Regarding intergroup relations, students will be familiarized with the theoretical and practical approaches to intergroup conflict, prejudice and discrimination and improvement of inter-group relations (intergroup contact, categorization, education in mixed contexts). Research findings regarding relations between ethnic groups, immigration and multiculturalism, coming from Cyprus, Europe and Worldwide, will be discussed. Regarding social representations, the course will focus on social representations of national and gender identity. This course demands participation in laboratories.

### **PSY 316 Cognitive Psychology II: Attention and Perception (6 ECTS)**

The course will present students with an in-depth analysis of the main theories and findings from the fields of Attention and Perception. Among the topics, that the course will cover, are the various functions of attention (e.g. divided and selective attention, vigilance, visual search), various topics in perception (e.g. visual and auditory perception, perceptual organization, pattern recognition, depth perception), the applications of attention and perception in daily life (e.g. visual illusions, change blindness), as well as a number of attentional/perceptual disorders (e.g. optic agnosia, Balint's syndrome, hemispatial neglect).

### **PSY 319 Interpersonal Processes (6 ECTS)**

The course will explore core issues of the social cognition approach in Social Psychology, like: Attitude Formation and Change, Social Information Processing, Cognitive Adaptation in a Social Environment, Emotion, Interpersonal Relations, Aggression and Altruism, Attribution Theory, Affiliation Attraction and Close Relationships.



**PSY 320 Learning Disabilities I: Attention Deficits (6 ECTS)**

The course outlines the history of Attention Deficit Disorder, describes the core Symptoms of ADHD and discusses the various etiologies contributing to its development. It explains the developmental course and looks at accepted methods to assess and identify students with ADHD, and various treatment methods that are currently being used to treat the disorder. Theoretical models of ADHD are presented, which describe the many cognitive and social deficits in the disorder. Overall, the course emphasizes that ADHD involves more than just attention deficits – such as deficits with inhibition, self-regulation, working memory, executive functioning, and the organization of social behaviour.

**PSY 321 Cognitive Science (6 ECTS)**

Cognitive Science as the science of the human mind aims at introducing students to the basic functions, through which the human mind processes information and acquires knowledge. In particular, the course focuses on areas of Cognition, such as attention, perception, memory, thought, learning and language acquisition and language understanding, drawing upon a wide spectrum of resources from psychology, philosophy, linguistics, artificial intelligence and neuroscience.

**PSY 322 Psychology of Reading (6 ECTS)**

Reading is a basic skill that is a prerequisite for success in a variety of life and academic domains. Nevertheless, it is also a highly complex skill that requires the coordination of multiple cognitive processes like Perception, Encoding, Memory, and Thinking. This course examines these processes, as they apply to reading tasks that range from word recognition to sentence and text comprehension. However, equal emphasis is placed on the outcomes of reading, in terms of mental representations and knowledge acquisition (learning). Although the course focuses on competent reading, implications concerning reading ability, its measurement and development are also discussed.

**PSY 323 Psychology of Language (6 ECTS)**

Language is taught as a linguistic, biological and physical concept. Language comprehension and language production. Language development in children. Theories on the origin of language. Language and thought. Language and education.

**PSY 331 Behavioural Neuroscience (6 ECTS)**

The course will present current theories and research studies, pertaining to brain plasticity and brain specialization. The effects of brain damage on neuronal networks, as well as current theories on brain reorganization and repair during childhood and adulthood will be discussed. The effects of genetics, hormones, and metabolism in relationship to normal brain functioning, as well as neuro-pathological, neurological, and behavioural disorders will be addressed.

**PSY 332 Social Psychology of Cognitive Development (6 ECTS)**

The course aims at familiarizing students with a field of study situated at the interface of Social Psychology and the theories and Cognitive Development. Emphasis will be placed on the educational applications of social developmental theories in peer interaction and cognitive development, as well as co-operative learning. The course will cover core theoretical approaches in the sociogenesis of the mind, including the work of G.H. Mead, Lev Vygotsky, and the sociological studies of Piaget. Finally, more recent research, described as post-Vygostkian and post-Piagetian in relation to cultural psychology, will be discussed.

**PSY 341 Social Deviance and Illegal Behaviour (6 ECTS)**

The course studies the psychology of individuals, who violate the law or live on the margins of social life. The psychological profiles, cognitive, emotional and behavioural mechanisms, that predispose one to develop antisocial behaviours, will be examined. Social phenomena such as family violence, serious criminality, substance abuse and other addictions, as well as membership in cults and other countercultural groups will be addressed from a psychological perspective. The course will also survey methods of assessment and intervention used in these situations.

**PSY 342 Psychology of Substance Dependence (6 ECTS)**

The course will address the psychological, social and biological factors, that contribute to the development and maintenance of addiction to substances. Addiction to nicotine, alcohol and hard drugs will be addressed. The emphasis will be on the current research in the field, dealing with the etiological mechanisms and predisposing factors in these disorders. Approaches to prevention, assessment and intervention will also be discussed.

**PSY 343 Applications of Psychology and Field Experience (7 ECTS)**

This course recognizes that vocational readiness is both a developmental and a complicated process for psychology students. The course will offer both knowledge and opportunities aimed at enabling students to gradually and systematically delineate their own vocational path. Professional issues in psychology and vocational development theories will be discussed. Various specialties in psychology will also be presented during the lectures. Students will have an opportunity to explore their professional interests and to further develop their psychological mindedness, vocational skills, self-awareness, and critical thinking, through field experience and various visits to professionals in the community.

**PSY 350 Research Experience I (3 ECTS)**

Research Experience is optional. Students, who are interested in participating in research projects, should get the relevant permission and ensure the collaboration with a member of the academic staff, who will act as their supervisor. Research experience should not be confused with the dissertation (PSY 490/491).

### **PSY 370 Educational Psychology II: Learning and Instruction (6 ECTS)**

The course examines learning and the factors that influence it. Course organization is based on three related areas: learning processes, learning outcomes, and contexts of learning. Topics include: theories of learning, learning and memory, strategies, concept acquisition, knowledge acquisition, restructuring and transfer, learning and intelligence, learning in cognitive and knowledge domains, learning and instruction, inductive and deductive approaches, learning tasks, and evaluation.

### **PSY 390 Independent Study (6 ECTS)**

In this course, the students examine a topic of their interest which is not included in any specialized course. Students have to get permission for collaborating with a member of the academic staff, who will act as their supervisor.

### **PSY 401 Diagnostic Methods in Psychology (7 ECTS)**

A review of the various Clinical Methods of Assessment used in diagnostic exploration. We will discuss the assessment of personality, intelligence, behaviour, adaptive functioning, cognitive skills, and affective functioning. Psychometric issues, such as reliability, validity, norms, and standardization of tests, will be presented. The dominant diagnostic coding systems will be presented. Ethical and philosophical issues in diagnosis and clinical assessment, such as social stigma, will be explored.

### **PSY 402 Theories of Mind and Consciousness (6 ECTS)**

The problems of the human mind and its functions are the main topics of this course. Questions like what mind is, its relation to the body (the body-mind problem), the way it represents the environmental world and its functions, coordination of mental and somatic processes, unconsciousness and consciousness will be targeted for discussion, focusing on their representational aspects.

### **PSY 403 Cognitive Development (6 ECTS)**

It is an advanced course, that covers theories of the nature and course of human Cognitive Development from infancy to adulthood. The course begins by discussing theoretical issues related to: the structure of the human mind and then proceeds to explore the development of perceptual abilities and attention, examine the development of language and memory, describe several aspects of children's conceptual development, and offers conclusions about the nature of development. This course is designed for students, who have already attended courses in child and adolescent development. Most of the readings will be books and articles, which will be discussed in the class meetings.

### **PSY 404 Methodology II: Correlational and Experimental Research (7 ECTS)**

The course focuses on specialized methodological issues and statistics in psychology. In the area of Correlational Research, students will be introduced to the methodological approaches, that lead to Hierarchical

regression and Factor Analysis. In the area of Experimental Research, this course covers simple and complex factorial designs with emphasis on both experimental design and statistical analysis. It is expected that, students will acquire substantial skills in both Correlational and Experimental Designs and Statistics. It is also expected that, students will be able to understand complex psychological studies and develop the skills to design and conduct psychological experiments.

### **PSY 407 Learning Disabilities II: Reading Difficulties (6 ECTS)**

The course covers a wide scope of Reading Difficulties and Dyslexia including the nature, causes, diagnosis, and various forms of treatment, based on different underpinning theories and approaches. The course is divided into six parts: (1) review of the theoretical basis for reading difficulties; (2) identification of principles for diagnosis; (3) review of current reading tests and diagnostic materials; (4) study of the different subtypes of reading difficulties; (5) identification of principles for appropriate remedial programs, and (6) writing of case reports. Particular emphasis is placed on the phonological and cognitive correlates of reading difficulties in school-age children.

### **PSY 422 Psychobiology II: Neuropsychology (7 ECTS)**

Neuropsychology examines the interrelationship between neuronal function and the effects of organic brain damage on brain functions. The course will integrate contemporary clinical and research paradigms on Neuropsychological Theories, assessment of cognitive abilities (e.g. memory, attention, language, visual-spatial abilities, verbal learning, etc.) and psychosocial functions. The effects of specific brain pathologies such as traumatic brain injury, stroke, brain tumors, and neurodegenerative disease (e.g. Parkinson's disease, Alzheimer's disease, and small vessel disease) will be discussed, in the context of the effects of those pathologies on the neurocognitive, behavioural, and psychosocial abilities (e.g. dementia, aphasia, apraxia, agnosia, personality changes, and depression).

### **PSY 423 Mental Retardation (6 ECTS)**

The course is an introduction to the basic concepts of Mental Retardation, associated with psychological, social and educational aspects. Special emphasis is placed on similarities and differences between Mental Retardation and normal development advocated by different theories, as well as classification, IQ, chronological and mental age (MA) relationship, motivation, personality, special classes and mainstreaming.

### **PSY 424 Knowledge Representation (6 ECTS)**

The problem of Knowledge Representation in the human mind is an issue of great importance. Understanding the process of Knowledge Representation also requires knowledge of some basic concepts, such as Propositional and Pictorial Representation, Neural Networks, Neural Distributed Representation, etc., associated with Psychology, Linguistics, Neuroscience and AI. The course

aims at acquainting students with various forms of representation and providing a basic understanding of what representation of knowledge is about and how it influences the conception of human behaviour.

#### **PSY 425 Basic Human Pharmacology (6 ECTS)**

The course will discuss the relationship between chemical substances and brain function. The course will focus on the interrelationship between the neurochemical properties and events relating to the pharmacological action of prominent drug classes (e.g. stimulants, opiates, hallucinogenic, and psychotropic drugs) and their pharmacological action, and effects on behaviour (such as therapeutic, mood altering, dependency and other side effects).

#### **PSY 426 Advanced Topics in Clinical Psychology (6 ECTS)**

The course examines the science and practice of Clinical Psychology. It emphasizes topics, that are of concern to contemporary clinical psychologists, such as therapy effectiveness and how this is measured, prescription privileges, ethical and cross-cultural issues and other dilemmas. Research methods in clinical psychology are also discussed, with an emphasis on clinical trials, experiments with N=1 and other approaches. Recent research in experimental psychopathology is also covered.

#### **PSY 450 Research Experience II (3 ECTS)**

Research Experience is optional. Students, who are interested in participating in research projects, should get the relevant permission of and ensure the collaboration with a member of the Academic Staff, who will act as their Supervisor. Research experience should not be confused with the dissertation (PSY 490/491).

#### **PSY 490, PSY 491 Dissertation in Psychology (12 ECTS)**

The Dissertation is optional. Students, who wish to complete a dissertation project, should get the relevant permission of and ensure the collaboration with a member of the academic staff, who will act as their supervisor.

## STRUCTURE OF THE PROGRAMME

ECTS			ECTS		
<b>COMPULSORY COURSES</b>					
<b>(17 Courses - 101 ECTS)</b>					
PSY 100	Introduction to Psychology	5	PSY 216	Introduction to Psychoacoustics	6
PSY 101	Developmental Psychology I	5	PSY 217	Family Psychology	6
PSY 102	Social Psychology I: Introduction to Social Psychology	5	PSY 223	Psychology of Individual Differences	6
PSY 103	Clinical Psychology I: Theories of Personality	5	PSY 301	Experimental Psychology Methods	7
PSY 120	Cognitive Psychology I	5	PSY 305	Behaviour Analysis and Modification	7
PSY 170	Educational Psychology I: Child Development and Educational Applications	5	PSY 307	Counseling Psychology	6
PSY 200	Psychobiology I: Biological Bases of Behaviour	6	PSY 319	Interpersonal Processes	6
PSY 204	Methodology I: Descriptive Research	7	PSY 320	Learning Disabilities I: Attentional Problems	6
PSY 220	Clinical Psychology II: Abnormal Psychology	6	PSY 321	Cognitive Science	6
PSY 306	Introduction to Psychology II: Deontology and Ethics in Psychology	6	PSY 322	Psychology of Reading	6
PSY 314	Developmental Psychology II	6	PSY 323	Psychology of Language	6
PSY 315	Social Psychology II: Intergroup Relations and Social Representations	7	PSY 331	Behavioural Neuroscience	6
PSY 316	Cognitive Psychology II: Attention and Perception	6	PSY 332	Social Psychology of Cognitive Development	6
PSY 343	Applications of Psychology and Field Experience	7	PSY 341	Social Deviance and Illegal Behaviour	6
PSY 370	Educational Psychology II: Learning and Instruction	6	PSY 342	Psychology of Substance Dependence	6
PSY 404	Methodology II: Correlational and Experimental Research	7	PSY 401	Diagnostic Methods in Psychology	7
PSY 422	Psychobiology II: Neuropsychology	7	PSY 402	Theories of Mind and Consciousness	6
<b>ELECTIVE COURSES FROM THE DEPARTMENT OF PSYCHOLOGY(99 ECTS)</b>			PSY 403	Cognitive Development	6
PSY 113	Work and Organizational Psychology	5	PSY 407	Learning Disabilities II: Reading Difficulties	6
PSY 118	Fundamentals of Human Sexuality	5	PSY 423	Mental Retardation	6
PSY 123	Psychology of Motivation	5	PSY 424	Knowledge Representation	6
PSY 131	Psychology of Mourning	5	PSY 425	Basic Human Pharmacology	6
PSY 132	Psychology of Happiness and Adaptive Behaviour	5	PSY 426	Advanced Topics in Clinical Psychology	6
PSY 203	Memory	6	<b>TWO COMPULSORY COURSES FROM OTHER DEPARTMENTS (10 ECTS)</b>		
PSY 208	Health Psychology	6	CS 001	Introduction to Computers	
			MAS 051	Statistics	
			<b>ELECTIVE COURSES FROM OTHER DEPARTMENTS (20 ECTS)</b>		
			Any Elective Course from two other departments of the University of Cyprus corresponding to 20 ECTS (4 courses X 5 ECTS)		
			<b>FOREIGN LANGUAGE (10 ECTS)</b>		
			Two Courses in a Foreign Language (Levels I and II)		



## STRUCTURE OF THE PROGRAMME

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### Notes:

Students may select from the Elective Courses of the Department of Psychology. Furthermore, they can select two courses (up to 12 ECTS) from other departments, in addition to the four Elective Courses dictated by the University rules of attendance, which will be included in the 99 ECTS.

The Elective Courses include the following: PSY 390 Independent Study (6 ECTS), PSY 350 Research Experience I (3 ECTS), PSY 450 Research Experience II (3 ECTS) and PSY 490-491 Undergraduate Thesis (12 ECTS), enrolment in which requires approval of the professor.

- In PSY 390 students study a subject of their choice, not included in a Specialized Course. Students are exempted from an Elective Course from the Department of Psychology.
- Courses PSY 350 and PSY 450 are optional and students are involved in research projects conducted by the faculty of the Department, thus acquiring important research experience.
- The undergraduate thesis PSY 490-491 is also optional. The students are exempted from TWO Elective Courses from the Department of Psychology.

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## GENERAL TABLE OF REQUIREMENTS

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	ECTS
Compulsory Courses	101
Elective Courses from the Department of PSY	99
Two Compulsory Courses from other Departments	10
Elective Courses from other Departments	20
Foreign Language Courses	10
<b>GRAND TOTAL</b>	<b>240</b>

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ΤΗΡΙΟ ΣΥΜ  
ΑΝΑΣΤΑΤΙΟΝ





## Faculty of Social Sciences and Education

# ● ● ● ● Department of Social and Political Sciences

[www.ucy.ac.cy/sap/en](http://www.ucy.ac.cy/sap/en)

### **CHAIRPERSON**

Victor Roudometof

### **VICE-CHAIRPERSON**

Kyriakos Demetriou

### **PROFESSORS**

Costas M. Constantinou

Kyriakos Demetriou

Joseph S. Joseph

Savvas Katsikides

Yiannis Papadakis

### **ASSOCIATE PROFESSORS**

Antonis Ellinas

Victor Roudometof

Stavros Tombazos

### **ASSISTANT PROFESSORS**

Kalliope Agapiou-Josephides

Sophia Stavrou

Iasonas Lamprianou

### **LECTURER**

Sophia Stavrou

## DEPARTMENT'S OBJECTIVES

The Department of Social and Political Sciences aims at promoting research and knowledge in the fields of Sociology and Political Science. It also aims at raising awareness among the public at large on sociopolitical issues. Emphasis is placed on the creative interaction between theory, research and teaching.

## POLITICAL SCIENCE

Political Science aims at the systematic study of political phenomena. It focuses on the concept of power and its concrete manifestations, especially in the context of social change and political development. Political scientists study the sources, instruments and scope of power, political institutions, political culture and ideologies. They are also concerned with the objective study and critical examination of human behaviour, as well as the processes shaping the dynamics of the political system. The research methods, levels of analysis and theoretical approaches, used by political scientists, enable them to seek a better understanding of political processes at both the domestic and the international levels. Courses in the field aim at familiarizing students with the subject matter and the analytical tools used to study politics.

## SOCIOLOGY

Sociology is the science that analyses, causally and interpretively, the social aspects of human existence. Social action and, more generally, the social construction of reality are examined in the context of particular social formations, such as class, the family, ethnic and religious group. The sociologist focuses upon the processes of production, reproduction and evolution of society's fundamental structures and institutions. Sociology, more than any other science, studies the behavioural and ideological changes associated with the passing of traditional society. A more perceptive and critical understanding of modernity constitutes the sociologist's basic aim. The students of the programme are familiarized with sociological theory, methodology and the main research areas, acquiring skills that will enable them to achieve a systematic understanding of contemporary Cypriot society, as well as to compare it with other societies, modern or historical.

## JOURNALISM

This new interdisciplinary and interdepartmental programme, which is coordinated by the Department of Social and Political Sciences and runs in cooperation with the Departments of History and Archaeology and Byzantine and Modern Greek Studies, offers students an undergraduate Bachelor of Arts degree in Journalism.

### Programme Objectives

The disciplines of Communication Studies and Journalism are becoming increasingly important, as, today, the acquisition, dissemination, exchange and management of information are a primary focus of a state's economic, political and cultural activities. This explains the recent

development of the discipline, as well as the delineation of specific fields and the establishment of curricula for Communication Studies, Multimedia Studies, and Journalism. Therefore, most universities today offer programmes in the above-mentioned disciplines, often incorporating courses from the Humanities and Social Sciences, which will ensure a multifaceted and pluralistic education for future journalists, while at the same time underlining the importance of technical/ vocational training. The University's new programme of study has been designed, so that it combines academic training with practical applications and encompasses the wider issues of communication, media, technology and the study of social phenomena. The main objective of this programme is to teach students how to understand, study and manage the communication revolution. Therefore, instruction will include, apart from the main courses of Journalism, courses in Political Science, Sociology, History, Literature and Foreign Languages.

## COURSE DESCRIPTIONS

### Sociology

#### SPS 101 Introduction to Sociology (6 ECTS)

The course is an introductory overview of sociological theory, methodology and research. Its aim is to familiarize students with sociological thinking and argumentation. Special emphasis is placed on the character of Sociology as a science, and the historical evolution of the discipline, both in Europe and the USA.

#### SPS 102 Classical Sociological Theories (6 ECTS)

The course is a systematic introduction to the work of the classic thinkers of the discipline. The aim is to familiarize students with the main issues and problems of sociological theory up to WWII. Special emphasis is placed on the methodology of sociology, modernity and the key characteristics of capitalist society. The course emphasizes the importance of classical texts and examines the role they continue to play in sociological thinking.

#### SPS 105 Introduction to Social Anthropology (6 ECTS)

Social Anthropology focuses on the comparative study of society and culture. It aims at reaching an understanding of other peoples and societies, as well as furthering the understanding of one's own society by reflective mirror. It poses a strong challenge to ethnocentrism and attempts to promote understanding and tolerance among different peoples.

#### SPS 146 Introduction to Qualitative Social Science Methodology (7 ECTS)

The course presents the scientific method of investigating social phenomena. The purpose of this course is to familiarize students with methodology as a part of logical analysis or simply, scientific research. Methodology encourages students to work empirically and to examine and redefine theoretical concepts. The course cultivates habits of scientific thinking, which are necessary to counter



prejudice. Students are informed of standard scientific procedures and criteria of acceptance, which every discipline has developed. In addition to familiarizing themselves with examples and literature from these areas, students are evaluated on the basis of practical short assignments that should cover at least three different research strategies.

#### **SPS 147 Introduction to Quantitative Social Science Methodology (7 ECTS)**

The course covers the foundations of the field, including the relationship between theory and research, the logic of causation, research design, ethics of research, issues of reliability and validity, etc. It provides students with an overview of the entire research process, including operationalization, techniques for construction of questionnaires, indexes, scales and typologies, sampling, data analysis and different types of social statistics. In addition to familiarizing themselves with examples in each of the above, students are evaluated on the basis of practical short assignments that should cover all the major sub-divisions of quantitative research.

#### **SPS 211 Contemporary Sociological Theories (6 ECTS)**

Beginning with Parson's emphasis on macro-sociology and functionalism, this course then examines various micro-sociological approaches, as well as attempts towards the integration of sociological theory between these two poles. Each sociological model is examined by placing it within the socio-historical conditions of its creation. The central issue pursued involves the dualism of structure and action, along with the efforts to transcend it.

#### **SPS 212 History of Sociology (6 ECTS)**

The course offers a brief historical overview of the evolution of sociological thinking from Comte to Parsons. The emphasis is on the breadth, and not the depth, of sociological thought. The course examines the key elements of the work of a wide range of sociologists in Europe as well as in the USA.

#### **SPS 213 Youth and Society (6 ECTS)**

The course focuses on the processes of the socialization of young people in modern society and the various related issues. Specific topics include the development of personal identity among adolescents; the role of peer groups; the development of various subcultures; the role of the media; the role of sexuality; the relationship between family and teenagers and the impact of this relationship on the youth.

#### **SPS 215 Volunteerism: Theory and Practice (3 ECTS)**

The goal of this course is to provide education, engagement and awareness, train as well as mobilize students on volunteering possibilities in organizations in Cyprus. The aim is to develop the critical reflection of students on volunteering issues. The course will have a partly experiential character (non-formal learning), and it will also be based on academic literature.

#### **SPS 221 Sociology of Deviance (6 ECTS)**

The course is a systematic introduction to the conceptual and empirical bases of the sociological analysis of deviance and social control. Special emphasis is placed on the social construction of deviance and the role played by sociological categories such as social class and gender.

#### **SPS 231 Social Stratification (6 ECTS)**

The course is a systematic introduction to theories of class analysis and other approaches to social stratification. It begins by examining the thought of Marx and Weber and moves to more contemporary thinkers. While the emphasis is placed on social stratification in modern societies, a comparative-historical perspective is also provided.

#### **SPS 232 Gender, Power and Politics (6 ECTS)**

The course introduces students to the basic concepts (gender, sex, masculinity, femininity, gender roles, oppression, private and public spaces, power over and power to, the personal is political, etc.) and to the different kinds and goals of feminism, as a social movement and ideology. The social construction of gender and how it differs in different cultures is also discussed. Analysis of social and political phenomena is presented through the gender perspective in Cyprus, and in various European and non-European societies, including the study of international women's conferences and their political implications.

#### **SPS 241 Cyprus Society (6 ECTS)**

The course analyses Cyprus as a whole, as a currently divided space that is inhabited by various social and ethnic groups. The course begins with the most contested issue: History. Following this, it examines a range of topics, including language and dialect, poetry and literature, political parties, church and religion, gender and migrants.

#### **SPS 243 Social Policy (6 ECTS)**

Social Policy is preoccupied with the administrative practice of welfare provision in the domains of Health Care, Education, Employment, Community Care, Criminality, Unemployment, Mental Health, Gender, Poverty and Ageing Populations, etc. In a more general sense, this course addresses the issue of welfare action beyond governmental jurisdictions.

#### **SPS 244 Social Theory and Citizenship (6 ECTS)**

After the end of the Cold War and the global readjustment of the state to market imperatives, the meaning of citizenship came anew to the forefront of the debate. This course will focus on how social theory evaluates the emergence of new actors and social subjectivities (women, minorities, and social movements), refurbishing the context of liberal democracy on one hand, while on the other assessing how market forces engender new forms of acquiescence, apathy, coercive homogenization and authoritarian quantification of life.

### **SPS 245 Gender, Race and Class (6 ECTS)**

Gender, Race and Class are conceptualized as constituted and constituting forces, which drive the propensity of modernity toward social mobilization reform and/or revolutionary breakthroughs. These concepts will be studied as a cluster of causal reasons, that reinforce stratification and concealed violence thereby enhancing a hierarchical model of integrating modernity. At the same time, we shall foreground counter-possibilities, as these emerge from the cross-breeding of such experiences of oppression, through the anti-hierarchical organization of self-ruling communities, able to convert necessity into freedom and identity into difference.

### **SPS 246 Critical Theory and Social Research (6 ECTS)**

The course explores the evolution of Critical Theory, as an uncompromising critique of modern bourgeois civilization. It elucidates the various ways, in which contemporary critical theory inseminates creative research. The course explores the evolution of Critical Theory as an uncompromising critique of modern bourgeois civilization. It elucidates the various ways, in which contemporary critical theory inseminates creative research (in relatively unsuspected and uncharted areas), by critical discourse such as the health industry, criminality, education, city planning, architecture of urban space, etc. The main objective of the course is to enable the participants to nurture critical research orientations, as specialized forms of social intervention in the modern world.

### **SPS 247 Quantitative Analysis in Sociological Research (6 ECTS)**

This class builds on the skills and knowledge acquired by students in previous modules (e.g. SPS 147 Introduction to Quantitative Methods of Social Science Research). The aim of the course is to introduce the students to specific methods of quantitative analysis of empirical data in Social Sciences and, especially, in Sociology. The curriculum also covers graphical methods, as well as non-parametric methods of analysis.

### **SPS 269 Basic Principals of Political Economy (8 ECTS)**

The aim of the course is to familiarize students with the basic concepts and methods of political economy. Particular emphasis is placed on the theories of value, the repartition of incomes, the theories of crises, as well as the evolution tendencies of the free market economy. The state and central bank policies, within contemporary economies (fiscal policy, monetary policy, foreign exchange policy), are also examined.

### **SPS 300 Higher Education, Policy and Society (6 ECTS)**

Higher education policy has become a major issue within the scope of the knowledge society and lifelong learning. The course aims at exploring this topic at the intersection of Policy and Society. It analyses the objectives and the historical development of higher education policies at the supranational and national levels, in a comparative perspective. There is a particular focus on the Europeanisation and internationalization of higher education, and the

restructuring of the relationship between the public and the private sectors. The connection between higher education and other critical issues including social inclusion, social mobility, employability and economic development, are also studied.

### **SPS 301 Cultural Sociology (6 ECTS)**

The course entails the analysis of the relationship between culture and society and focuses on the effect of cultural factors on social behaviour. The historical evolution and the different meanings of the terms "culture" and "civilization" are examined, as well as different approaches to the study of the field. Specific areas of interest include the study of cultural sub-cultures, the relationship between culture and commercialization, and the role of mass media in modern culture, the relationship between society and music, cinema, and other art forms, etc.

### **SPS 302 Sociology of Economy (6 ECTS)**

The course is a systematic introduction to industrial sociology, offering a comparative-historical perspective on industrialization. It examines theories of the industrial revolution and models of scientific management (F. Taylor), the phenomenon of automation, the microelectronic revolution and various phenomena related to post-industrial and information societies.

### **SPS 303 Modernity and Postmodernity (6 ECTS)**

The course focuses on the conflict between different logics of modernity, with the major issue being whether modernity's project remains incomplete, or whether it has exhausted itself and has consequently been replaced by a post-modern condition. The debate focuses on the affinities between modernity and Enlightenment, post-modernity and globalization and how these relationships reflect on the epistemological controversy over relativism, the crisis of rationality and method in the social sciences.

### **SPS 304 Sociology of Mass Media (6 ECTS)**

The course is a systematic introduction to the Sociology of Mass Media and Communication. It examines the wide spectrum of human communication, with an emphasis on the role of the mass media in modern societies. The course places special emphasis on sociological and communication theories and on the methods of measurement and communication models.

### **SPS 305 Sociology of Tourism (6 ECTS)**

Sociology of Tourism examines economic and the social aspects of this new industry. Special topics include the development of tourist cities, the cultural, social and economic impact of tourism on the host society; the cultural imperialism thesis, the development of specialty tourism, such as Ecotourism, and so on.

### **SPS 306 Social Movements (6 ECTS)**

The course is a systematic introduction to the sociology of social movements. It offers a comparative-historical perspective on the social preconditions of a wide spectrum of social movements, be it of a reformist or a revolutionary

character. Theoretical issues are examined, always in reference to the analysis of empirical data, both from Cyprus and from other societies.

#### **SPS 307 Sociology of the Family (6 ECTS)**

The course is a systematic introduction to the basic concepts, methodology and empirical research related to the sociology of family. The social structure of family life is examined comparatively in both traditional and modern societies. Emphasis is placed on the effects of processes of social change, and especially modernization, on the character and the structures of family life.

#### **SPS 308 Criminology (6 ECTS)**

Following a general review of the field of contemporary criminology and the phenomenon of criminal behaviour in society, the course examines a number of theories of criminal behaviour, including: psychological (Freud, Eysenck) and sociological, ecological, differential association, Marxist, labeling, and composite perspectives. Attention is then focused on offenders and victims in general and with particular reference to rape, armed robbery, homicide, monoepisodic mass murder, serial murder and white-collar crime. Finally, the FBI's profiling method is critically evaluated.

#### **SPS 309 International Terrorism (6 ECTS)**

International Terrorism is a major social feature of the 21st century. The course examines the definition, nature and ideological dimension of terrorism in Europe and the Middle East. Additionally, the course examines the role, significance and consequences of the American-led "war on terrorism."

#### **SPS 311 Sociology of Minority Groups (6 ECTS)**

The issue of minority groups is currently one of the major issues for the New Europe of the 21st century. Different dimensions include the definition, criteria, and rights of minority groups, the relationship between immigration and minority group formation, etc. The course inquires into different aspects of these issues, with special attention to particular minority groups inhabiting the Eastern Mediterranean and the Balkans.

#### **SPS 313 Immigration and Demography (6 ECTS)**

The course examines the phenomenon of immigration and its effects on the demographic character of modern societies. Both historical and contemporary phenomena are examined and the aim is to relate the phenomenon of immigration to other social, political and cultural processes.

#### **SPS 314 Political Sociology (6 ECTS)**

The course is a systematic introduction to the basic concepts, methodology and empirical research of political sociology. The social basis of politics is examined, through the analysis of different systems of political organization, different forms of political action, the role of ideology and the processes of political conflict and change. Special emphasis is placed on theoretical issues, always in relation

to the analysis of empirical data from Cypriot and other societies.

#### **SPS 315 Ethnography (6 ECTS)**

The course examines classic pieces of ethnographic writing, as well as recent attempts at experimental ethnography. These ethnographies are discussed in light of the theoretical trends that influenced them (or that they initiated), as well as the sociohistorical conditions of their creation. Emphasis is placed on the 'literary turn' in anthropology, which analyses ethnographic texts using techniques from literary criticism.

#### **SPS 317 Identity and Difference (6 ECTS)**

The course will endeavor to track varying strategies and paths of identity formation, focusing on how these processes run against their own self-generated limits by engendering lethal differences and counter-identities. The effort is to aggregate various implications accruing from the discontents of identity, as well as on the compulsive fear of being allegiant to any particular identity, by highlighting new regimes of normalization and resistance associated with them.

#### **SPS 318 Development and Modernization (6 ECTS)**

The course examines the processes of modernization and economic development. The experience of modern Western societies is compared to the experience of societies of the so-called Third World, and also the experience of the societies of late development. Emphasis is placed on the effects of modernization on a wide range of other sociological factors – from politics and the family to religion and cultural production.

#### **SPS 319 Anthropology of Religion (6 ECTS)**

The course begins with an overview of classic sociological and anthropological approaches to religion. A significant question raised is whether anthropology explains religion or rejects it. Can religious phenomena be approached through an anthropological viewpoint, or are they primarily issues related to esoteric, mystical experiences? Other questions raised are: What exactly is magic? Does the world inevitably move towards secularism? Is religion an illusion? If so, why does it exist? Is religion a means of oppression, or resistance? What is the role of ritual? How can contemporary sects and New Age Movements be explained?

#### **SPS 320 Ethnicity and Nationalism (6 ECTS)**

The course examines the social dimension of ethnicity and the construction of national identities. The focus is on the development of nationalism, ethnic relations, the formation of the nation state, and the production, as well as the consumption, of nationalist ideology. The emphasis is on the global scene, but systematic references are also made to Cypriot society.

#### **SPS 322 Political Anthropology (6 ECTS)**

Political Anthropology is the cross-cultural comparative examination of politics. It focuses on the following issues:

power and authority, stratification and inequality, ideology, violence, the political role of ritual and religion, resistance, political identity and nationalism.

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**SPS 323 Anthropological Theory (6 ECTS)**

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A general overview of the main theoretical currents expressed through Social Anthropology during the 20th century. The key theoretical schools (Functionalism, Structural-Functionalism, Structuralism, Marxist Anthropology, Transactionalism and Action Theory, Anthropology of Gender, Hermeneutical Anthropology, Post-Modernism and Post-Colonial Studies) will be discussed on the basis of classic ethnographies representing each school.

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**SPS 324 Transnationalism and International Migration (6 ECTS)**

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The new immigrants or "transmigrants" maintain ties with their homelands and acquire multiple identities. The constant weaving of these transnational relationships provides the most prominent example of the transnational experience worldwide. New transnational communities are being formed, which connect villages, individuals, states, regions, and movements across borders, and which create new dynamics in a host of domains, including religion, family, economic development, and so on.

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**SPS 325 Sociology of Law (6 ECTS)**

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The course evaluates the ongoing symbolic interaction between social and legal theory, with reference to phenomena of legal overregulation, juridification of social relations and conflicts, overload of the legal system by social claims, etc. The way in which social theory becomes part of legal theory's self-reflexivity is also examined, in light of the latter's attempt to reform the legal system.

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**SPS 326 Sociology of Health (6 ECTS)**

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The course is a systematic introduction to the basic concepts, the methodology and the empirical research of the sociology of health. Special emphasis is focused on the social relativity of disease (physical as well as mental) and the ways in which organized society and especially the state provide for people's health.

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**SPS 327 Contemporary Trends in Social Theory (6 ECTS)**

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The course aims at the understanding and critique of newly emerging theoretical models in the social sciences, currently in the process of becoming influential. Particular emphasis is placed on theories of postmodernism, deconstruction and post-colonial criticism.

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**SPS 328 Sociology of Urbanization (6 ECTS)**

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The course is a systematic introduction to the sociology of urban life and urbanization. The development of cities is examined in a comparative-historical perspective, and the focus is on those processes of urbanization, which are connected with the wider phenomenon of modernization. The emphasis is on the effects of urbanization on a wide range of other social processes – economic, political and cultural.

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**SPS 329 Sociology of Technology (6 ECTS)**

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The course is a systematic introduction to the sociology of technology, analyzing the effects of technological development on social life. Various theoretical approaches are examined, from both classical and contemporary sociology, always in reference to the analysis of empirical data, from Cypriot and other societies.

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**SPS 330 Sociology of Knowledge (6 ECTS)**

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The course is a systematic introduction to the concepts, methodology and empirical research of the sociology of knowledge. The relation between knowledge and society is examined in classical sociology (especially the work of Marx and Durkheim), as is the more recent and more systematic sociology of knowledge that has developed from the thought of Scheller, Manheim, Schutz, Berger and Luckmann. Special emphasis is placed on the relation between consciousness and modernity, ideological thinking and the consciousness of everyday life. An extensive introduction to social phenomenology is also provided.

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**SPS 331 Sociology of Work (6 ECTS)**

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The course is a systematic introduction to the sociology of work, analyzing the historical evolution of the concept of work and trade unionism. Various theoretical approaches, both from classical and contemporary sociology, are examined and students are familiarized with empirical research in the sociology of work.

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**SPS 332 Social Problems (6 ECTS)**

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The course examines a wide range of social problems (from violence in the family and hooliganism to the use of drugs and unemployment) in Cypriot and other societies. The aim is to use basic conceptual frameworks from sociology, in order to analyse the meaning of these problems and their effects on social life.

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**SPS 333 Sociology of Religion (6 ECTS)**

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The course is a general introduction to the Sociology of Religion. Primary goals are: (a) understanding the role of religion in society and (b) understanding the institutional features of religiosity (ceremonies, sects, movements, etc.). Coverage includes both classical and contemporary sociological perspectives. The basic issues in the field include the universal spread of secularization and the relationship between globalization and religion. Special reference is made on the relations among religions, society and the state in the Greek-speaking world, as well as the connections between Greek identity and Eastern Orthodoxy.

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**SPS 336 European Economic Integration (6 ECTS)**

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Introduction to the economic development and social expansion of the European Union. Perception of the EU as a social and economic system. Students will develop an understanding of the different ways, in which European integration has been understood, and what this implies for the trajectory that the EU is likely to take in the future. To



complement this analysis, a number of crucial issues pertaining to the role of technology will be discussed, including an overview of important policy areas, institutional design, relations between Member States and the EU, Economy, Society and Technology and Technological Change, Social Europe and Social Policy.

#### **SPS 337 Social Ecology (6 ECTS)**

Under the post-materialist constellation of values that increasingly characterize contemporary society, social theory is called on to inquire into the crisis of the urban and natural environment, in terms of a crisis of anthropocentric morality. The critical issue to be addressed, therefore, is whether modern trends in social theory may inspire a shift away from anthropocentrism toward a biocentric sociological agenda, that will reformulate the social contract in the context of the urban and natural environment.

#### **SPS 338 Social Theory and Psychoanalysis (6 ECTS)**

The course will focus on the influential but neglected contribution of psychoanalysis to the evolution of social theory. Being one of the major responses to the crisis of modernity and its varying manifestations of subjectivity, psychoanalysis is well suited for theoretical investment in the direction of expanding and renewing sociological concerns. Beyond any therapeutic claims by psychoanalysis, social theory aspires to accommodate it in terms of a hermeneutic theory of subjectivity, as well as a theory of social reproduction operating at the interface of society, culture and subjectivity.

#### **SPS 340 Social Theory and Cinema (6 ECTS)**

The course approaches cinema as a textual system by rereading concepts of psychoanalytic, Marxist and post-structuralist social theory in the context of cinema. The course examines cinema as industry, institution and as a system of representation that rewrites the subjects in their social positions.

#### **SPS 347 Myths, Misconceptions, and the Misuse of Empirical Research in the Social Sciences (6 ECTS)**

Although the course curriculum refers to the Social Sciences in general, most of the sessions will focus on practical examples taken from the disciplines of Sociology, Political Science and Journalism. During the class sessions (which will take place in a computer lab), students will study published papers and reports that have methodological problems and weaknesses. Students will study articles from the daily or weekly press (e.g. the Economist), in order to practice the task of summarizing the main findings of empirical research. Students will discuss how the findings of empirical research are often distorted in the popular press.

#### **SPS 348 Applied Qualitative Research (6 ECTS)**

The course expands the knowledge of qualitative techniques and applies it to specific contexts. Students gain an in-depth knowledge of participant and non-participant

observation, focus groups, semiotics, content analysis, in-depth interview and ethnography, through the application of these techniques in practice. Using one or more continuous projects, students are expected to perform all the major steps of qualitative research, culminating in one or more research reports.

#### **SPS 349 Applied Quantitative Research (6 ECTS)**

The course expands the knowledge of quantitative techniques and applies it to the analysis of data sets. Students will familiarize themselves with relevant statistical packages suitable for the social sciences (SPSS, SAS or another major statistical package), as well as with the relevant sources of data at the national, EU, and international level. Emphasis is placed on the use of this knowledge in practice. Using relevant statistical packages, students will conduct (and will be evaluated on) specific exercises, designed to help them understand how to use quantitative methods in applied social research.

#### **SPS 400 Evolution and Society (6 ECTS)**

The course is an introduction to Darwin's theory of evolution and sociobiology. The focus is on the biological basis of social behavior and its implications concerning the purpose and methods of the social sciences.

#### **SPS 401 Global Society (6 ECTS)**

The purpose of the course is to examine the repercussions of globalization from the perspective of post-modernism and cultural theory, and more specifically, the social and cultural consequences of the Information Age (or Global Age). These consequences include the impact of information technology on family life, community, religion, and other sociological areas of concern; the emergence of risk societies; the emergence of new, gendered, racialized or other ethnic or "hybrid" identities; the rise of cosmopolitanism and localism, etc.

#### **SPS 402 Truth, Memory and Reconciliation: Comparative Sociological Perspectives (6 ECTS)**

From the discussion regarding the Holocaust and the Nuremberg Trials, to the current debates regarding 'Truth, Justice and Reconciliation' like the South African 'Truth and Reconciliation Committee', this class compares the key efforts that took place in various societies. The major axes of debate revolve around four issues: justice, reconciliation, memory and historical truth. These topics are examined with a sociological emphasis on the relationship of such efforts with the public at large, regarding the planning, participation and results.

#### **SPS 403 Historical Sociology (6 ECTS)**

Historical Sociology uses the historical record as a means for developing specific generalizations about human societies. The field covers the entire human record, but typically, coverage focuses on the factors and processes involved in the process of societal modernization. Specific sub-fields covered include: comparative-historical sociology, world-system analysis, social history, world

history (a sub-field shared with historians), the figurational sociology (of the late Norbert Elias), etc.

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**SPS 404 Sociology of Political Parties (6 ECTS)**

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The course examines phenomena of party and parliamentary oligarchy and bureaucratization of party apparatuses; their dependence on and accountability to the media industries rather than their own constituencies; their international relations, linkages between parties, governments and unions; phenomena of managerial catch-all parties, single issue-parties, antiparty parties, movement-parties, the party-state, European parties, etc.

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**SPS 405-406 Contemporary Issues in Sociology (6 ECTS)**

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In this class, students will analyse contemporary social issues, trends and movements under conditions of rapid change, often on a global level. Students will focus on specific topics to gain an in-depth understanding of the material, and will be taught through lectures, presentations and discussions of sources drawn from a variety of media. The class strives to create possibilities for reflexivity and critical defamiliarization.

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**SPS 407-408 Advanced Topics in Social Theory (6 ECTS)**

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In this class, students will focus on particular topics in social theory. They will gain an in-depth understanding of the subject matter through lectures, presentations and discussion of bibliographical sources. There is also an emphasis on the development of skills relevant to the sociological approach, especially those of critical analysis and the discussion of primary sources.

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**SPC 409 Politics of the European Union as a World Power (6 ECTS)**

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In economic, trade and monetary terms, the European Union has become a major world power. European integration began with six countries and two sectors of the economy and, within a period of barely sixty years, has evolved into a complex system of governance, that covers a wide range of policy areas, from trade and money to immigration and foreign policy. For EU member states today, the main objective of the European system is the joint management of the growing interdependence of states and peoples of Europe. The successive enlargement rounds have been, in turn, the most effective foreign policy of the EU, while they additionally act as a mechanism for an economic convergence region. In addition, this agenda of deregulation, especially for southern Europe, is on track to economic differentials and social trends, which endangers the fundamental requirements and the initial purpose of European integration.

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**SPS 419 Politics of the Image: Photography, Cinema, Documentary and Art (6 ECTS)**

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This class focuses on the theoretical debates surrounding the politics and sociology of representation. From the period of colonialism and anti-colonial struggles, to the creation of modern states and the subsequent rise of post-modernism, the image has been a means, as well as a site of struggles and contestations. The rise of the image, as the

primary means of public communication, renders its analysis all the more necessary. Drawing on specific examples from Cyprus and other countries, this class aims at giving students the skills necessary for the theoretical, critical and analytical negotiation of images.

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**SPS 420 European Unification & European Culture (6 ECTS)**

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EU enlargement and the cultural changes in European societies of the 21st century have reconfigured the debate on the construction of a single cultural area, while also maintaining the multiplicity of national and local societies and cultures. Specific topics covered include the degree to which Eastern and Western European societies have converged, the processes of Europeanization and Americanization and their consequences, as well as the debate on Europe's boundaries.

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**SPS 421 Political Society and the Constitution of Federalism (6 ECTS)**

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The course examines the comparative constitution of political societies and federal systems by way of civil wars, international conflicts and class confrontations, identifying the role played by communities, parties, religious organizations, economic foundations, theological and ideological disputes in the process of state-formation and federalization. The main objective of the course is to take the constitutional challenge of founding new federal states, along with the case of Cyprus, and place them in a comparative framework of theoretical debate.

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**SPS 422 Beyond Class and Order: Alternative Social Quests (7 ECTS)**

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"Class" is discussed in all its meanings: economic, pedagogical (classroom) and classificatory. The course aims at students' active participation, where the process is part of the learning. It is based on important critiques of modernity: the individual as a passive receptor (Debord); the imposition of "lessons" through education (Freire); and disciplinary institutions (Foucault). Also studied are sociopolitical topics, in the wider sense of the term, that emerge from these discussions.

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**SPS 446 Advanced Issues in Sociology (6 ECTS)**

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The course is open to the basic themes of sociological inquiry, depending on the instructor. It is an advanced course, aimed at in-depth analysis and research on a particular topic.

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**Political Science**

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**SPS 151 Introduction to Political Science (6 ECTS)**

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The purpose of this introductory course is to familiarize students with the basic issues, concepts, research methods and theoretical approaches of Political Science. It includes a historical overview of the development of this discipline, but it focuses primarily on contemporary thematic orientations, approaches and research methods used for the study of political phenomena.

**SPS 152 Comparative Politics (6 ECTS)**

The course introduces students to Comparative Politics, as one of the major areas of Political Science. It discusses and trains students in the comparative method of analysis and addresses basic concepts, such as state, nation-state, political systems, political culture, political socialization, social critique, political parties, interest groups and political development in a comparative setting. It examines case studies of European and other countries.

**SPS 153 International Relations (6 ECTS)**

Introductory course on the contemporary international political system with emphasis on the structures, factors and processes, which form the world political scene and affect relations among states. Emphasis is placed on the role played by states, international organizations and other entities and factors in shaping the dynamics, issues and outcomes of international politics. Some of the basic concepts and issues examined include the state, international organizations, power, balance of power, national interest, diplomacy, international law, foreign policy, war and regional integration.

**SPS 154 Political Theory (6 ECTS)**

The purpose of this course is to familiarize students with classic texts. Further, basic concepts and ideas, that shaped European political structures are explored.

**SPS 155 Foreign Policy (6 ECTS)**

The course offers an introduction to the fundamental concepts and major theories of foreign policy analysis, as well as a sketch of important decisions and actions in the foreign policy of a superpower (USA) and a middle power (Greece).

**SPS 156 European Integration (6 ECTS)**

An introductory course on European integration, which looks at the basic concepts, trends and processes of political and economic integration. Issues of integration are examined from a historical and theoretical perspective, focusing on the foundation and evolution of the European Communities. It also examines the potential, prospects and problems of the process of deepening and widening the EU.

**SPS 157 Political Analysis and Methodology (6 ECTS)**

This course introduces students to quantitative and qualitative methods of empirical research, in the context of political sciences. The curriculum covers the use of existing data, as well as the generation of new data. Students learn ways to use data from international studies, such as the European Social Survey, and to apply simple statistical methods using the R statistical package. In addition to quantitative methods, students will become familiarized with qualitative methods, such as interviews, focus groups and observations.

**SPS 232 Gender, Power and Politics (6 ECTS)**

The course introduces students to the basic concepts (gender, sex, masculinity, femininity, gender roles, op-

pression, private and public spaces, power over and power to, the personal is political, etc.) and to the different kinds and goals of feminism as a social movement and ideology. The social construction of gender, and how it differs in different cultures, is also discussed. Analysis of social and political phenomena is presented through the gender perspective in Cyprus, and in various European and non-European societies, including the study of international women's conferences and their political implications.

**SPS 251 The Political System of Cyprus (6 ECTS)**

The course offers a historical, social, and political analysis of the pre- and post-establishment of the Republic of Cyprus. Basic concepts such as Constitution, political system, citizens' rights and institutions are discussed, with detailed reference to Cyprus. A critical view of the Cyprus constitutions and detailed analysis of articles and treaties are also presented.

**SPS 256 Law and Politics**

This course examines the conceptual link between law and politics, as well as the political practices through which rights are restricted, pursued, and enshrined and justice denied and/or administered. That is to say, the politics of law and justice are examined, beyond the conventional work of the judiciary. The course focuses on different themes, such as the drafting of constitutions in new states, transitional justice, revolutionary justice, the doctrine of necessity and regimes of exception, the supra-national and sub-national authorities administering justice, the role of international non-governmental organizations of human rights, etc.

**SPS 261 Comparing Political Systems (6 ECTS)**

The course critically examines a number of representative political systems (i.e. Liberal democracy, Federalism, Islamic democracies, Communism and Fundamentalism, etc.), as they apply to today's world, using a multi-systemic and transnational approach. The end of the Cold War and a new world typology will be discussed. The new nation-states formed after 1989, their struggle toward democratization, the phenomenon of globalization and the dwindling role of the nation-state are topics that will be covered.

**SPS 263 Greek-Turkish Relations (6 ECTS)**

After a schematic introduction to the post-war foreign policies of Greece and Turkey, the course concentrates on the Aegean dispute, the Cyprus problem, and two crucial "triangles": European Union-Greece-Turkey and Washington-Ankara-Athens.

**SPS 265 Ancient Greek Political Thought (6 ECTS)**

Examination and analysis of the ancient Greek's contribution to the history of political thought. The period focused on is between the 5th and 4th centuries B.C., with emphasis on the Sophists, Socrates, Plato and Aristotle. Among other topics, the module focuses on discussions concerning the nature – law antithesis, justice and political obligation, the types and aims of political systems, and the concepts of happiness, polis and citizen.

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**SPS 266 The Political System of the European Union (6 ECTS)**

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The objective of the course is to familiarize students with the basic structures and functions of the EU. It places emphasis on the institutions of the EU, especially their composition, functioning and mission. It provides a historical overview of the evolution of the EU and its institutions, but the course has a contemporary focus on recent and current issues.

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**SPS 267 Comparative Politics of Developing Nations (6 ECTS)**

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A historical review of the development theories from the 1960s to the present will be discussed, with reference to Latin American and the African states. The relationship between Centre and periphery and the different theoretical models, used to understand and explain the domestic factors of the different developing nations, their similarities and differences, will be highlighted. Reference will also be made to the developing countries' relationship to the so-called First-world nations.

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**SPS 269 Basic Principals of Political Economy (6 ECTS)**

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The aim of the course is to familiarize students with the basic concepts and methods of political economy. Particular emphasis is placed on the theories of value, the repartition of incomes, the theories of crises, as well as the evolution tendencies of a free market economy. The state and central bank policies, within contemporary economies (fiscal policy, monetary policy, foreign exchange policy), are also examined.

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**SPS 272 International Organizations (6 ECTS)**

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The course examines the typologies and role of international organizations in the post-Cold War era, in dealing with international problems such as poverty, AIDS, disputes, environmental destruction, small arms proliferation, gender inequalities, violence against women, prostitution and trafficking, etc. The role of NGOs, their relationship to the states and other regional organizations in a changing world, will also be studied.

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**SPS 274 Human Rights (6 ECTS)**

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The course looks at the content and protection mechanisms of human rights in the Republic of Cyprus, as well as within the European Convention of Human Rights. The general theory of these rights is also considered, along with the question of the safeguard of these rights, within the ambit of a potential solution to the Cyprus problem.

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**SPS 275 The UN System (6 ECTS)**

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A historical and critical presentation and analysis of the International Organization – i.e. what preceded its establishment and why the League of Nations failed. Examination of the different theoretical approaches (Realism/Neo-realism, Pluralism, Marxism/Internationalism, Dependency Theory and Conflict-Resolution Theory), with reference to the study of the international organization. Detailed reference to the UN Charter, the structure and

different bodies of the organization and their functions and limitations. Specific reference to UN interventions in various nation-states and evaluation of the effectiveness of such interventions.

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**SPS 276 Hellenistic Political Thought (6 ECTS)**

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Examination and analysis of the Hellenistic contribution to the history of political thought, focusing on the period from the 3rd century B.C. to the 4th century A.D., with emphasis on the work of politicians and rhetoricians, such as Cicero and Seneca, as well as philosophical schools, including the Epicureans and the Stoics. The module investigates both the continuation of the ancient Greek political thought, in which the city and its positive/moral law was the locus of attention, and the appearance of new political concepts, such as the cosmic city and natural law.

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**SPS 277 Medieval Political Thought (6 ECTS)**

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This course analyses and examines the Medieval contribution to the history of political thought between the 5th and 15th centuries, with emphasis on the work of such important thinkers as Augustine of Hippo, Thomas Aquinas, Marsilius of Padua, and William of Ockham. The module focuses on particular discussions concerning power, authority and jurisdiction, within the broader context of investigating the relationship between the Church and the emerging states.

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**SPS 278 Comparative Media Politics (6 ECTS)**

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The course offers a comparative examination of the interaction between the media and politics. It examines the role of the media in modern democracies, concentrating mainly on Europe and the United States. It looks into the alleged effects of the media in terms of how citizens think, in regard to policy-making and the electoral process. The course examines issues, such as media ownership, the relationship between the media and the state, the modern challenges for public television and the future of journalism in the age of blogs, Twitter, Facebook and YouTube.

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**SPS 279 Comparative Public Policy (6 ECTS)**

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The course examines public policy in a number of countries including Germany, the UK and the US. It analyses the factors shaping public policy and the economic, political and social consequences stemming from the implementation of these policies. It investigates particular policies, like those associated with the welfare state, administrative reform and immigration policy.

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**SPS 280 Gender Conflict and Peace (6 ECTS)**

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This course examines the gendered aspects of international conflict and peace processes. It focuses on feminist theories and theories of power, in explaining the gendered aspects of inter-ethnic and international conflicts. It will examine topics and analyse them through a gender lens and gender violence perspective. Student will study certain specific cases (including the Cyprus case) and also focus on the obstacles to integrating a gender perspective into peace building processes, and how these can be overcome.



**SPS 281 Contemporary Political Thought (6 ECTS)**

The course examines the development of Political Thought from Machiavelli to J.S. Mill, and analyses the contribution of modern political theorists to the debates over liberty, property, political obligation, social contract, justice, rights, sovereignty and power.

**SPS 282 Political Ideologies (6 ECTS)**

The course examines the role of Ideology in reforming and legitimizing constitutional forms and governmental structures. It explores analytically the content, as well as the historical references and philosophical roots of the most significant ideologies, such as Liberalism, Socialism, Nationalism, Anarchism and Feminism.

**SPS 283 Gender and Migration (6 ECTS)**

The course examines the recent (from the end of the Cold War and into the 21st century) migration phenomenon from gender, race, and age perspectives. It will utilize theories on issues of citizenship, discrimination and equal human rights. It will critically examine the liberal conceptualization of citizenship, which presumes that individual citizens have equal rights, status and duties in relation to the state and how these rights apply, or do not apply, to migrants, both men and women. Both feminist theories and empirical research will be used to explain the gendered migration phenomenon in the 21st century.

**SPS 314 Political Sociology (6 ECTS)**

The course is a systematic introduction to the basic concepts, methodology and empirical research of political sociology. The social basis of politics is examined, through the analysis of different systems of political organization, different forms of political action, the role of ideology and the processes of political conflict and change. Special emphasis is placed on theoretical issues, always in relation to the analysis of empirical data from Cypriot and other societies.

**SPS 348 Applied Qualitative Research (6 ECTS)**

The aim of the course is to complete a piece of qualitative research. Students will go through all necessary stages: definition of research question, finding the necessary bibliography, research proposal, the research itself, presentation of research results, the written research paper, and a critical self-evaluation. The course is taught as a seminar, based on student presentations and discussion.

**SPS 360 Globalization (6 ECTS)**

The issue of globalization is examined through various disciplines and perspectives. The first question raised is whether this involves a radical rupture with, or continuation of, modernity or whether it is simply an emotive rhetorical appeal. Topics discussed include the following: westernization, modernization and hegemony, the shifting role of the "nation-state", the role of the economy, changes in institutions like tradition and the family, transnationalism and inter-state linkages, mobility (people, goods, capital and information) and the role of the mass media.

**SPS 361 Cyprus and the European Union (6 ECTS)**

The course explores basic issues and aspects of the relations of Cyprus, with the European Union beginning with the signing of the Association Agreement in 1972. There is emphasis on the period dating to the submission of the application for membership in 1990. There is also discussion of the political aspects of EU membership and related issues in the context of Cyprus's European orientation. The structures, functioning, deepening and widening of the EU are some of the issues examined from the viewpoint of Cyprus as a member state.

**SPS 365 Plato's Political Thought (6 ECTS)**

Examination and critical analysis of Plato's political theory on the basis of his writings. The course also explores Plato's reception throughout the centuries, along with the ideological appropriation of his major political theses.

**SPS 366 Social Contract Theories (6 ECTS)**

The course examines the background and philosophical debate, that led to the theory of the Social Contract, initially as the product of the philosophy of natural law and subsequently as an integral part in the theory of classical liberalism. It also examines how the theory of the Social Contract was transformed in the 18th century, and looks at the consequences of the critique addressed to it by the major representatives of utilitarian political philosophy.

**SPS 367 Theories of Political Justice (6 ECTS)**

The course analyses the major theories of political justice, from antiquity to the present. It discusses the arguments over the source, the nature and the scope of justice, and explores its meaning. It also identifies the fundamental principles which form the foundation of a just order.

**SPS 370 The Clientelist State**

The course examines the historical roots, the main characteristics and the basic structure of the 'clientelist state.' It focuses on possible explanations for the establishment of the clientelist state. It seeks to understand how the clientelist state shapes the political system, political culture and political reform. It analyses, on a comparative basis, Cyprus and other cases in Southern Europe and Latin America.

**SPS 373 The Cyprus Problem (6 ECTS)**

A multi-disciplinary approach (historical, sociological, social anthropological, social psychological and international relations perspectives) to the Cyprus conflict. Causes and kinds of international conflicts and the role of International law. Methods and tools of resolving international conflicts, with specific reference to the Cyprus negotiations-official and unofficial diplomacy. Reference to third-party interventions and their effectiveness and limitations in the case of Cyprus.

**SPS 376 Conflict Resolution (6 ECTS)**

Introduction to the theories and practice of the interdisciplinary field of the science and art of Conflict

Resolution. Basic concepts will be outlined and the conflict theories and causes of war will be presented. Analysis of different kinds of conflicts, and the causes of ethnic and international disputes will be discussed. Official and unofficial diplomacy, their contribution and limitations and practices in various case studies will be studied. Presentation of tools used in the diagnosis, analysis, and intervention of third parties in facilitating the resolution of protracted international disputes, such as that in Cyprus. Simulation exercises will also be used.

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#### **SPS 377 Power and Legitimation in International Politics (6 ECTS)**

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This course examines how the power of state and non-state actors is legitimated and challenged in international politics. It engages with conceptual problems and theoretical discussions around questions of power, legitimacy and legitimation and focuses on the following topics: the selective use and interpretation of the rules of International law; the legal and illegal use of force; the role of great and regional powers in maintaining or endangering international order; the creation of states, military bases and regimes of exception; the use of soft power and public diplomacy; and the management of the global commons.

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#### **SPS 378 Economy and Politics (6 ECTS)**

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Political and economic thought are interrelated and interdependent. Liberal theories are related to the classical and neo-classical economy, socialist ideas are related to "the critique of political economy", etc. Aim of the course is a more profound understanding of the competing political ideas/ideologies of contemporary times, through the presentation of the principal historical schools of economic thought.

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#### **SPS 382 Contemporary Political Theory (6 ECTS)**

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The course examines the production of political theory, since John Stuart Mill's constructive criticism of classical possessive liberalism. Basic concepts such as liberty and justice, rights and obligations, social contract and property are revisited. The contribution of John Rawls and Robert Nozick to these discussions is the focus of our review of twentieth-century political thought.

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#### **SPS 383 Political Parties and Elections**

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Although most citizens of most countries today are dissatisfied with political parties, among scholars there is virtual unanimity that parties are essential for making any kind of democracy work. However, there is no consensus about the nature of the parties that democracy requires. Political Parties and Elections, is a political science course focusing on political parties as organizations of mobilization, and on elections as democratic means of citizen expression, as well as the means by which states can control their citizenry. One goal of this course is to expose you to the variety of parties and party systems, as well as electoral systems that can be found in Europe today. A second goal is to introduce basic comparative concepts and theories. The course studies political parties, first, at a

systemic level and, then, at an organizational level. The first approach is associated primarily with understanding party systems: their origins, patterns, stability, and latterly instability. As we moved into the 1980s, the attention switched to the organizational level, trying to get inside the 'black-box' of the party organization, to understand how parties compare across nations and over time, and assessing the question of their possible demise. At the end of the course, you should have developed the following knowledge and skills:

The meaning and definition of parties, party systems and electoral systems.

Explanations for why party systems are/were stable and how they might be categorized.

Examining parties from inside

The key analytical and theoretical skills for understanding party politics in Europe.

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#### **SPS 384 Enlightenment Political Thought (6 ECTS)**

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Introduction to the classic texts of political thought written during the Age of Enlightenment, with emphasis on the ideas of reason and progress, liberty, equality and nature. Examination of the connection between Enlightenment ideas and the American and French revolutions at the end of the 18th century, as well as the conflict between Enlightenment and Romanticism.

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#### **SPS 385 Utopian Socialism and Marxism (6 ECTS)**

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Examination and analysis of nineteenth-century socialist thought, with particular emphasis on the classic distinction between "utopian" and "scientific" socialism. The differences between the various socialist approaches are examined, in relation to the proletariat's capacity as an agent of change, the role of revolution in social reform, and the role of capitalism in social development.

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#### **SPS 386 Right-wing Radicalism (6 ECTS)**

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The course examines the historical roots, evolution and theoretical explanations for right-wing radicalism. It focuses in the ascendance of this phenomenon in the interwar years and discusses its evolution in the post-war period. It analyses and compares individual cases of right-wing radicalism and the factors explaining its rise in some periods, especially in western Europe.

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#### **SPS 387 Radical and Revolutionary Left (6 ECTS)**

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The course examines the historical origins, evolution and theories explaining left-wing radicalism. It focuses on the growth of this phenomenon after the Russian Revolution, emphasizing recent forms, notions and theoretical approaches of radical left movements, parties and organizations, as they have evolved since May 1968.

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#### **SPS 388 Environmental Politics (6 ECTS)**

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This course examines the politics of state and non-state actors, in relation to the exploitation, protection and management of the environment. It deals, inter alia, with the political theory of ecology and the international

conventions on the environment, and focuses on topical issues such as global warming, deforestation, rising sea-levels, waste management, overexploitation and sustainable development, environmental refugees, etc.

#### **SPS 389 Politics and the Arts (6 ECTS)**

This course examines how the arts can be used both to promote political meanings and messages, and to reinterpret conventional practices while projecting alternatives views of the political. Specifically, this course focuses on the relationship between politics and aesthetics, and analyses sites and works of art, including the performing and visual arts, as well as literature.

#### **SPS 390 Parties, Politics and Democracy in Southern Europe (6 ECTS)**

The course examines politics in southern European countries, including Greece, Spain, Portugal, Italy and Cyprus. It focuses on the historical evolution of democratic institutions, and analyses the state structures, party systems and political culture of these countries. It looks into how the differences in the historical evolution of democracy have shaped contemporary politics in southern Europe. The course examines phenomena like the clientelist state, political polarization, the collapse of the party system and radicalism. It examines how these phenomena affect or are affected by economic crises.

#### **SPS 393 International Relations Theories (6 ECTS)**

The course examines basic concepts, theories and approaches of international relations, through the work of prominent scholars. There is emphasis on key issues and levels of analysis, that will provide a better understanding of the structures, processes and factors, that form the world political scene and affect the behaviour of states and other international actors.

#### **SPS 396 European Foreign and Security Policy (6 ECTS)**

The course examines the main structures, factors, processes and parameters shaping and implementing foreign and security policy in Europe. Emphasis is placed on the EU, but individual states are also examined. The approach of the course is primarily historical and theoretical, but there is some focus on the prospects and potential of the EU that play a role in the international political scene. In the context of EU Common Foreign and Security Policy, the role of Cyprus is also examined.

#### **SPS 451 Special Issues in International Relations (6 ECTS)**

The course is presented as a seminar and examines in depth major contemporary issues in international relations. It offers students an opportunity to improve their capabilities and skills in theoretical thinking and empirical research.

#### **SPS 452 Special Topics in Comparative Politics (6 ECTS)**

The course is presented as a seminar and examines in depth specific contemporary phenomena in comparative politics. It aims at equipping students with research skills and theoretical frameworks of analysis, to look at various political phenomena in a comparative perspective.

#### **SPS 453 Strategy and War (6 ECTS)**

This course examines the theory and practice of strategy, as well as the causes and consequences of war. Following an introduction to classic and contemporary theorists of strategy and war, it focuses on issues such as the relationship between war, law and morality, the character of interstate, world and civil wars, the new wars, the representation of war, coercive diplomacy, weapons of mass destruction, terrorism, child soldiers, etc.

#### **SPS 454 Global Security (6 ECTS)**

This course examines security, as it extends to transnational concerns with global implications, leading frequently to multilateral collaborations. The study of global security includes conventional and critical security studies, and is therefore not only limited to state-centric military-anchored matters, but also covers human security, regional security complexes, and widened security agendas, including, inter alia, concerns about the environment, society, the economy, migration, violence, health, resource scarcity, etc.

#### **SPS 455 Special Issues in Foreign Policy (6 ECTS)**

The course is presented as a seminar and examines in depth contemporary and current issues in foreign policy analysis. It gives students the opportunity to improve their capabilities in theoretical and empirical research in the formation of the foreign policy.

#### **SPS 456 Global Commons (6 ECTS)**

This course examines the involvement of international actors in the definition, exploitation and management of the global commons, that is to say, areas over which states have no sovereignty or only limited sovereignty. It introduces and interprets the value conflict between "creeping territoriality" and "world heritage of humankind", and focuses, inter alia, on the cases of the oceans, the Arctic, Antarctica, international rivers, cultural heritage, biodiversity, endangered species, and outer space.

#### **SPS 462 Common Policies of the European Union (6 ECTS)**

The course looks at the theory and practice of EU Common Policies as tools of integration. It provides a historical background and explores the circumstances and political environment, which influence their evolution and formulation. It examines basic issues at the conceptual and theoretical level. It also focuses on special issues and policies of particular interest to Cyprus and the enlargement of the EU.

#### **SPS 464 Ethics of International Relations (6 ECTS)**

Part One offers a schematic introduction to fundamental ethical theories and the major theories of International Relations, as well as a brief introduction to the main theoretical approaches of International Ethics. Part Two investigates such central ethical concerns as human rights, foreign aid, military interventions, peacekeeping operations, and global environmental issues.

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**SPS 466 The European Union as a Global Power (6 ECTS)**

The course investigates the European Union's emerging role in the New International System. Without ignoring the issues of defense and security, the main emphasis is placed on the Union's activities in the areas of foreign aid, environmental concerns, peacekeeping and humanitarian missions, the role of the EU in international organizations and its relations with the United States.

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**SPS 467 Gender and International Organizations (6 ECTS)**

The course focuses on the gender equality policy of the European Union, the Council of Europe and the United Nations. The aim of this course is to provide students with theoretical and empirical tools. While there is significant coverage of EU policy and practices, the course also seeks to expose students to international events and issues. Students are expected to acquire a broad understanding of the gender dimension, both as an adaptation pressure for domestic policy and as a useful policy instrument for forward-looking international strategies.

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**SPS 468 Critical Theory (6 ECTS)**

Critical Theory inherits and critically renews German political philosophy, in particular Hegel's and Marx's work. The course focuses on the contribution of Critical Theory to the analysis of the Enlightenment, contemporary western democracy and totalitarianism in its contemporary "traditional" and original forms.

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**SPS 481 Special Issues in Political Theory (6 ECTS)**

The course explores major issues in political thought, through the writings of selected political philosophers. During the course, students analyse one or more philosophers, by reading their original works as well as critical material.

## Journalism

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**MSJ 101 and MSJ 102 Introduction to Journalism and Media Studies, I and II (6 ECTS)**

A survey of the history of Communication and Journalism in Europe and the United States. Subjects to be included: the shift from oral to written communication in ancient Greece; the significance of books and print in the history of the churches; the development of journalism and its relation to the Enlightenment and the republican ideal; the development of the profession of journalism; relations between the state and communications media, including the post office, newspapers, telegraph, radio, television, the Internet; the growth of commercial financing, media corporations, globalization, and alternative media; journalism in the context of a total media environment. It includes a laboratory component, in which students are introduced to computer software for editing texts and images.

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**MSJ 201 and MSJ 202 Modern History and Practice of Journalism (7 ECTS)**

Structure and content of journalistic institutions, from 17th century pamphlets through 18th- and 19th-century

newspapers and 20th/21st-century global news organizations and networks. The rise of "yellow journalism," the journalism of scandal, personal journalism, "precision journalism," and the investigation of official documents. Includes a specific examination of contrasting and overlapping styles and methods of contemporary coverage in various news outlets available online.

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**MSJ 211 Journalism, Law and Ethics (6 ECTS)**

An examination of the legal frameworks and regulations of various, different societies, and how they affect the practice of journalism. This course will include a comparison of different systems, for example: the difference between British and American approaches to libel, public responsibility, advertising; European and American approaches to leaks; state-financed systems and privately owned systems. What are the responsibilities of journalists – to civic ideals, to employers, to traditions, to audiences, to truth?

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**MSJ 221 Journalism, Propaganda and Social Psychology (6 ECTS)**

Under what conditions have journalists functioned as instruments of propaganda? What kinds of regimes have used propaganda, and under what conditions, and with what outcomes? What do journalists do--and what ought they to do--when approached to work as propagandists? What is the impact of propaganda on the public?

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**MSJ 351, MSJ 352, MSJ 451, MSJ 452**

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**Practicum (arranged according to different media and forms) (8 ECTS)**

During each of these semesters, students will be exposed to the finest journalism in a variety of forms. They will be required to recognize and evaluate different approaches, and to consider such questions as: What is an event? What is a perspective? What is a frame? How does the journalist address alternative perspectives? They will also write and/or produce examples of the respective forms of journalism.

News reports and fact-based features. Descriptions of events (battles, crimes, trials, meetings, political campaigns, etc.), from short reports to elaborate feature articles, profiles, etc.

Long-form journalism. In this course, students will not be required to write books, but to write proposals for how they would conduct research and write books and extensive articles on specific journalistic subjects. Different styles will be examined, and from different cultures. Possible authors include: George Orwell (UK), Jose Marti (Cuba), Domingo Faustino Sarmiento (Argentina), Ryszard Kapuściński (Poland), Roberto Saviano (Italy), Norman Mailer, Garry Wills, and Tom Wolfe (US).

News broadcasts and documentaries. Students will study examples of fine broadcast journalism from a variety of countries, in a variety of lengths.

Online and multi-media journalism. There is now a substantial amount of online journalism, where many



examples of good work are available. Students will study the online work of established newspapers like The New York Times, The Washington Post, and The Guardian, as well as the work of the most serious blogs and online magazines (Slate, Salon, Talkingpointsmemo.com). Design, as well as content will be analyzed.

#### **MSJ 301 History of Journalism in Cyprus (6 ECTS)**

In this course, the history of Cypriot journalism from its inception will be examined: the first newspapers and journalists, the development of the Cypriot press, the establishment of the CyBC and the latest developments in Cypriot broadcasting.

#### **MSJ 311 Media Technologies (6 ECTS)**

The social and technological development of newspapers, with an emphasis on movable type (Gutenberg), the radio (Marconi in the UK and USA), popular magazines, communications satellites, and the internet. The role of technical inventions, and the role of political and economic structures. Study of the political, social, economic, and cultural conditions, under which new media technologies have developed.

#### **MSJ 391 The Present and Future of Journalism (6 ECTS)**

The evolution of journalistic forms since 1980, including: the spread of feuilleteons (op-ed pieces), 24-hour cable channels, international news networks, new forms of sensationalism, "citizen journalism," "crowd-sourcing," blogging, hyperlinks, aggregation, etc.

#### **MSJ 381 Political Communication (6 ECTS)**

The role of political parties and governments, historically and at present, in owning, monitoring, and influencing large-scale communications. What does social science research say about the impact of these communications on political behavior?

#### **MSJ 401 Sports Journalism (6 ECTS)**

Sports as a center of cultural life. Studies of exemplary sports journalists, for example: Red Smith, A. J. Liebling, Norman Mailer, and Howard Cosell; the Roone Arledge, "Up Close and Personal" formula; the role of journalism and broadcasts in the economics of sports.

#### **MSJ 455 Introduction to Digital Production and Photography (5 ECTS)**

Students are introduced to the basic skills of multimedia production: photos, sound and video. Students gain proficiency in shooting, producing and editing. At the end of the semester students will be able to create and edit audiovisual content of short duration.

#### **MSJ 456 Advanced Digital Media Production (5 ECTS)**

This is the second part of a two-semester sequence that serves as Advanced Media Production. Having gained proficiency in multimedia production, this course aims to familiarize students with documentary production. The first part involves a theoretical approach to the logic of documentary production (basic practices and methods,

goals and narratives). The second part focuses on choosing suitable topics, creating producible scripts, developing skills in advanced shooting and advanced editing (e.g. special effects). At the end of the semester students are expected to create a documentary piece of 20 minutes.

#### **MSJ 481 Media and Society (6 ECTS)**

An examination of journalism's place amid the explosion of entertainment media that characterizes the current media environment, including case studies of the interaction of journalism and political developments (for example, with respect to terror attacks and wars). Also, a presentation of findings related to current media controversies, including the role of movies, television, video games, etc., in stimulating—or desensitizing people to—violence, stereotyping, and ethnic hatred.

Descriptions for courses from the three cooperating departments are not included (these can be found elsewhere in the University Prospectus).

## ANALYTICAL PROGRAMME OF STUDIES FOR POLITICAL SCIENCE DEGREE

The following programme of studies in Political Science is valid for students, who began their studies in Winter Semester 2013 or later. Students who began before Winter Semester 2013, should refer to the older programme, which can be found on the website of the department.

### CORE COURSES IN POLITICAL SCIENCE

**13 Courses x 6 ECTS + 2 Courses x 8 ECTS = 94 ECTS**

SPS 151 Introduction to Political Science  
SPS 152 Comparative Politics  
SPS 153 International Relations  
SPS 154 Political Theory  
SPS 155 Foreign Policy  
SPS 156 European Integration  
SPS 157 Political Analysis and Methodology (8 ECTS)  
SPS 232 Gender, Power and Politics  
SPS 251 The Political System of Cyprus  
SPS 261 Comparing Political Systems  
SPS 266 Political System of the European Union  
SPS 269 Basic Principles of Political Economy (8 ECTS)  
SPS 281 Contemporary Political Thought  
SPS 314 Political Sociology  
SPS 377 Power and Legitimation in International Politics

### ORGANIZATION AND COMMUNICATION SKILLS INTEGRATED IN THE CORE COURSES PROGRAMME

**3 Courses x 5 ECTS + 1 Courses x 6 ECTS = 21 ECTS**

Foreign Languages I  
Foreign Languages II  
Foreign Languages III  
CS 001 Introduction to Computer Sciences (6 ECTS)

### SUPPORT AND SPECIALISATION COURSES

**15 Courses + Thesis I & II x 6 ECTS = 102 ECTS or 17 Courses x 6 ECTS = 102 ECTS**

#### International Relations:

SPS 263 Greek-Turkish Relations  
SPS 268 Cyprus Foreign Policy  
SPS 272 International Organizations  
SPS 274 Human Rights  
SPS 275 The U.N.O. System  
SPS 280 Gender Conflict and Peace  
SPS 373 The Cyprus Problem  
SPS 376 Conflict Resolution  
SPS 393 International Relations Theories  
SPS 451 Special Issues in International Relations  
SPS 453 Strategy and War  
SPS 454 Global Security

SPS 455 Special Issues in Foreign Policy  
SPS 456 Global Commons  
SPS 464 Ethics of International Relations  
SPS 467 Gender and International Organizations

#### European Union:

SPS 361 Cyprus and the European Union  
SPS 362 Politics of the European Union  
SPS 364 Europe and the Mediterranean  
SPS 395 Mediterranean Dimension of the European Union  
SPS 396 European Foreign and Security Policy  
SPS 461 European Union Special Issues  
SPS 462 Common Policies of the European Union  
SPS 466 The European Union as a Global Power

#### Comparative Politics:

SPS 267 Comparative Politics of Developing Nations  
SPS 278 Comparative Media Politics  
SPS 279 Comparative Public Policy  
SPS 283 Gender and Migration  
SPS 360 Globalization  
SPS 370 The Clientelist State  
SPS 378 Economy and Politics  
SPS 383 Political Parties and Elections  
SPS 386 Right-wing Radicalism  
SPS 387 Radical and Revolutionary Left  
SPS 388 Environmental Politics  
SPS 390 Parties, Politics and Democracy in Southern Europe  
SPS 452 Special Topics in Comparative Politics

#### Political Theory:

SPS 256 Law and Politics  
SPS 265 Ancient Greek Political Thought  
SPS 276 Hellenistic Political Thought  
SPS 277 Medieval Political Thought  
SPS 282 Political Ideologies  
SPS 365 Plato's Political Thought  
SPS 366 Social Contract Theories  
SPS 367 Theories of Political Justice  
SPS 368 Hegel's Political Thought  
SPS 380 Natural Rights Theory  
SPS 381 Theories of Liberalism  
SPS 382 Contemporary Political Theory  
SPS 384 Enlightenment Political Thought

## ANALYTICAL PROGRAMME OF STUDIES FOR POLITICAL SCIENCE DEGREE

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SPS 385 Utopian Socialism and Marxism  
SPS 389 Politics and the Arts  
SPS 468 Critical Theory  
SPS 481 Special Issues in Political Theory

**Degree Thesis:**

SPS 498 Degree Thesis I  
SPS 499 Degree Thesis II

**ELECTIVES FROM OTHER SUBJECT AREAS**

**Number of Courses from other Departments equal to 11 ECTS**

**2 Sociology Courses from the following list X  
6 ECTS = 12 ECTS**

SPS 101 Introduction to Sociology  
SPS 102 Classical Sociological Theories  
SPS 105 Introduction to Social Anthropology  
SPS 211 Contemporary Sociological Theories  
SPS 231 Social Stratification  
SPS 304 Sociology of Mass Media  
SPS 306 Social Movements  
SPS 318 Development and Modernisation  
SPS 320 Ethnicity and Nationalism  
SPS 322 Political Anthropology  
SPS 347 Myths, Misconceptions and the Misuse of Empirical  
Research in Social Sciences

**Total of 40 Courses**

34 Courses x 6 ECTS = 204 ECTS  
4 Courses x 5 ECTS = 20 ECTS  
2 Courses x 8 ECTS = 16 ECTS  
or

**Total of 40 Courses**

32 Courses x 6 ECTS = 192 ECTS  
Thesis I & II = 12 ECTS  
4 Courses x 5 ECTS = 20 ECTS  
2 Courses x 8 ECTS = 16 ECTS  
**GRAND TOTAL: 240 ECTS**

## POLITICAL SCIENCE DEGREE (with Thesis)

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
SPS 151 Introduction to Political Science	6	SPS 314 Political Sociology	6
SPS 152 Comparative Politics	6	One Course Elective <i>from other subject areas</i>	6
SPS 153 International Relations	6	Four Courses <i>Support and Specialisation</i>	18
Foreign Languages	5	<b>TOTAL</b>	<b>30</b>
CS 001 Introduction to Computer Science	6		
<b>TOTAL</b>	<b>29</b>	<b>6th Semester</b>	
<b>2nd Semester</b>		One Course <i>Electives from other subject areas</i>	6
SPS 154 Political Theory	6	Four Courses <i>Support and Specialisation</i>	24
SPS 155 Foreign Policy	6	<b>TOTAL</b>	<b>30</b>
SPS 156 European Integration	6	<b>YEAR TOTAL</b>	<b>60</b>
SPS 157 Political Analysis and Methodology	8		
Foreign Languages	5	<b>4th YEAR</b>	
<b>TOTAL</b>	<b>31</b>	<b>7th Semester</b>	
<b>YEAR TOTAL</b>	<b>60</b>	SPS 498 Degree Thesis I	6
		One Course from <i>Electives from other subject areas</i>	6
<b>2nd YEAR</b>		Three Courses <i>Support and Specialisation</i>	18
<b>3rd Semester</b>		<b>TOTAL</b>	<b>30</b>
Foreign Languages	5		
SPS 232 Gender, Power and Politics	6	<b>8th Semester</b>	
SPS 251 The Political System of Cyprus	6	SPS 499 Degree Thesis II	6
SPS 261 Comparing Political Systems	6	One Course from <i>Elective from other subject areas</i>	6
One Course <i>Support and Specialization</i>	6	Three Courses <i>Support and Specialisation</i>	18
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>YEAR TOTAL</b>	<b>60</b>
SPS 266 Political System of the European Union	6	<b>GRAND TOTAL</b>	<b>241</b>
SPS 269 Basic Principals of Political Economy	8		
SPS 281 Contemporary Political Thought	6		
SPS 377 Power and Legitimation in International Politics	6		
One Course <i>Support and Specialization</i>	6		
<b>TOTAL</b>	<b>32</b>		
<b>YEAR TOTAL</b>	<b>61</b>		



## POLITICAL SCIENCE DEGREE (without Thesis)

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
SPS 151 Introduction to Political Science	6	SPS 314 Political Sociology	6
SPS 152 Comparative Politics	6	One Course <i>Electives from other subject areas</i>	6
SPS 153 International Relations	6	Four Courses <i>Support and Specialisation</i>	18
Foreign Languages I	5	<b>TOTAL</b>	<b>30</b>
CS 001 Introduction to Computer Science	6		
<b>TOTAL</b>	<b>29</b>	<b>6th Semester</b>	
<b>2nd Semester</b>		One Course <i>Electives from other subject areas</i>	6
SPS 154 Political Theory	6	Four Courses <i>Support and Specialisation</i>	24
SPS 155 Foreign Policy	6	<b>TOTAL</b>	<b>30</b>
SPS 156 European Integration	6	<b>YEAR TOTAL</b>	<b>60</b>
SPS 157 Political Analysis and Methodology	8		
Foreign Languages II	5	<b>4th YEAR</b>	
<b>TOTAL</b>	<b>31</b>	<b>7th Semester</b>	
<b>YEAR TOTAL</b>	<b>60</b>	One Course <i>Electives from other subject areas</i>	6
		Four Courses <i>Support and Specialisation</i>	24
<b>2nd YEAR</b>		<b>TOTAL</b>	<b>30</b>
<b>3rd Semester</b>			
Foreign Languages III	5	<b>8th Semester</b>	
SPS 232 Gender, Power and Politics	6	One Course <i>Electives from other subject areas</i>	6
SPS 251 The Political System of Cyprus	6	Four Courses <i>Support and Specialisation</i>	24
SPS 261 Comparing Political Systems	6	<b>TOTAL</b>	<b>30</b>
One Course <i>Support and Specialisation</i>	6	<b>YEAR TOTAL</b>	<b>60</b>
<b>TOTAL</b>	<b>29</b>	<b>GRAND TOTAL</b>	<b>241</b>
<b>4th Semester</b>			
SPS 266 Political System of the European Union	6		
SPS 269 Basic Principals of Political Economy	8		
SPS 281 Contemporary Political Thought	6		
SPS 377 Power and Legitimation in International Politics	6		
One Course <i>Support and Specialisation</i>	6		
<b>TOTAL</b>	<b>32</b>		
<b>YEAR TOTAL</b>	<b>61</b>		

## ANALYTICAL PROGRAMME OF STUDIES FOR SOCIOLOGY DEGREE

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The following programme of studies in Sociology is valid for students who began their studies in Winter Semester 2012 or later. Students who began before Winter Semester 2012, should refer to the older programme which can be found on the website of the department.

### CORE COURSES IN SOCIOLOGY

**17 Courses x 6 ECTS + 2 Courses x 7 ECTS +  
1 Course x 8 ECTS = 124 ECTS**

SPS101 Introduction to Sociology  
SPS102 Classical Sociological Theories  
SPS105 Introduction to Social Anthropology  
SPS146 Introduction to Qualitative Social Science  
Methodology (7 ECTS)  
SPS147 Introduction to Quantitative Social Science  
Methodology (7 ECTS)  
SPS 211 Contemporary Sociological Theories  
SPS 212 History of Sociology  
SPS 221 Sociology of Deviance  
SPS 231 Social Stratification  
SPS 241 Cyprus Society  
SPS 247 Quantitative Analysis in Sociological Research  
SPS 269 Basic Principles of Political Economy (8 ECTS)  
SPS 301 Cultural Sociology  
SPS 302 Sociology of Economy  
SPS 303 Modernity and Postmodernity  
SPS 306 Social Movements  
SPS 314 Political Sociology  
SPS 333 Sociology of Religion  
SPS 327 Contemporary Trends in Social Theory  
SPS 401 Global Society

### ORGANIZATION AND COMMUNICATION SKILLS INTEGRATED IN THE CORE COURSES PROGRAMME

**4 Courses x 5 ECTS + 1 Course x 6 ECTS = 26 ECTS**

Foreign Languages Course I  
Foreign Languages Course II  
Foreign Languages Course III  
PSY 102 Social Psychology I: Introduction to Social  
Psychology (5 ECTS)  
CS 001 Introduction to Computer Science

### SUPPORT AND SPECIALISATION COURSES

(in-depth courses and Interdisciplinary  
Enlargement)

**11 Courses + THESIS I & II = 66 ECTS**

SPS 213 Youth and Society  
SPS 215 Volunteerism: Theory and Practice (3 ECTS)  
SPS 232 Gender, Power and Politics  
SPS 243 Social Policy  
SPS 244 Social Theory and Citizenship  
SPS 245 Gender, Race and Class  
SPS 246 Critical Theory and Social Research  
SPS 300 Higher Education, Policy and Society  
SPS 304 Sociology of Mass Media  
SPS 305 Sociology of Tourism  
SPS 307 Sociology of the Family  
SPS 308 Criminology  
SPS 309 International Terrorism  
SPS 311 Sociology of Minority Groups  
SPS 313 Immigration and Demography  
SPS 315 Ethnography  
SPS 317 Identity and Difference  
SPS 318 Development and Modernisation  
SPS 319 Anthropology of Religion  
SPS 320 Ethnicity and Nationalism  
SPS 322 Political Anthropology  
SPS 323 Anthropological Theory  
SPS 324 Transnationalism and International Migration  
SPS 325 Social Theory and Law  
SPS 326 Sociology of Health  
SPS 328 Sociology of Urbanisation  
SPS 329 Sociology of Technology  
SPS 330 Sociology of Knowledge  
SPS 331 Sociology of Work  
SPS 332 Social Problems  
SPS 334 Economic and Industrial Society

## ANALYTICAL PROGRAMME OF STUDIES FOR SOCIOLOGY DEGREE

SPS 335 European Economic Integration in the New Countries  
 SPS 336 European Economic Integration  
 SPS 337 Social Theory and Ecology  
 SPS 338 Social Theory and Psychoanalysis  
 SPS 339 Cyprus Integration and Harmonisation Process (Specific Topics)  
 SPS 340 Social Theory and Cinema  
 SPS 347 Myths, Misconceptions, and the Misuse of Empirical Research in Social Sciences  
 SPS 348 Applied Qualitative Research  
 SPS 349 Applied Quantitative Research  
 SPS 400 Evolution and Society  
 SPS 402 Truth, Memory and Reconciliation: Comparative Sociological Perspectives  
 SPS 403 Historical Sociology  
 SPS 404 Sociology of Political Parties  
 SPS 405-406 Contemporary Issues in Sociology  
 SPS 407-408 Advanced Topics in Social Theory  
 SPC 409 Politics of the European Union as a World Power  
 SPS 419 Politics of the Image: Photography, Cinema, Documentary and Art  
 SPS 420 European Unification & European Culture  
 SPS 421 Political Society and the Constitution of Federalism  
 SPS 446 Advanced Issues in Sociology  
 SPS 448 Degree Thesis I  
 SPS 449 Degree Thesis II

### MINOR AND MINOR ELECTIVES FROM OTHER SUBJECT AREAS

**Number of Courses from other Departments equal to 12 ECTS**

**2 Political Science Courses from the following list X 6 = 12 ECTS**

SPS 151 Introduction to Political Science  
 SPS 152 Comparative Politics  
 SPS 153 International Relations  
 SPS 154 Political Theory  
 SPS 155 Foreign Policy  
 SPS 156 European Integration  
 SPS 252 Gender and Politics  
 SPS 281 Contemporary Political Thought  
 SPS 361 Cyprus and the European Union  
 SPS 373 The Cyprus Problem  
 SPS 383 Political Parties and Elections  
 SPS 366 Social Contract Theory

#### **Total of 40 Courses**

33 Courses x 6 ECTS =	198 ECTS
4 Courses x 5 ECTS =	20 ECTS
2 Courses x 7 ECTS =	14 ECTS
1 Course x 8 ECTS =	8 ECTS

or

#### **Total of 40 Courses**

31 Courses x 6 ECTS =	186 ECTS
Thesis I & II =	12 ECTS
4 Courses x 5 ECTS =	20 ECTS
2 Courses x 7 ECTS =	14 ECTS
1 Course x 8 ECTS =	8 ECTS

<b>GRAND TOTAL</b>	<b>240 ECTS</b>
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## SOCIOLOGY DEGREE (with Thesis)

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
SPS 101 Introduction to Sociology	6	SPS 306 Social Movements	6
SPS102 Classical Sociological Theories	6	SPS 314 Political Sociology	6
SPS105 Introduction to Social Anthropology	6	SPS 333 Sociology of Religion	6
Foreign Languages I	5	SPS 325 Social Theory and Law	6
CS 001 Introduction to Computer Science	6	SPS 327 Contemporary Trends in Social Theory	6
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
PSY 102 Social Psychology I: Introduction to Social Psychology	5	SPS 401 Global Society	6
SPS 146 Introduction to Qualitative Social Science Methodology	7	One Course <i>Major and Minor elective courses from other subject areas</i>	6
SPS 147 Introduction to Quantitative Social Science Methodology	7	Three Courses <i>Support and Specialisation</i>	18
SPS 211 Contemporary Sociological Theories	6	<b>TOTAL</b>	<b>30</b>
Foreign Languages II	5	<b>YEAR TOTAL</b>	<b>60</b>
<b>TOTAL</b>	<b>30</b>	<b>4th YEAR</b>	
<b>YEAR TOTAL</b>	<b>59</b>	<b>7th Semester</b>	
<b>2nd YEAR</b>		SPS 448 Degree Thesis I	6
<b>3rd Semester</b>		Two Courses <i>Major and Minor elective courses from other subject areas</i>	12
Foreign Languages III	5	Two Courses <i>Support and Specialisation</i>	12
SPS 212 History of Sociology	6	<b>TOTAL</b>	<b>30</b>
SPS 221 Sociology of Deviance	6	<b>8th Semester</b>	
SPS 231 Social Stratification	6	SPS 448 Degree Thesis II	6
SPS 247 Quantitative Analysis in Sociological Research	6	One Course <i>Major and Minor elective courses from other subject areas</i>	6
<b>TOTAL</b>	<b>29</b>	Three Courses <i>Support and Specialisation</i>	18
<b>4th Semester</b>		<b>TOTAL</b>	<b>30</b>
SPS 241 Cyprus Society and Politics	6	<b>YEAR TOTAL</b>	<b>60</b>
SPS 269 Basic Principals of Political Economy	8	<b>GRAND TOTAL</b>	<b>240</b>
SPS 301 Cultural Sociology	6		
SPS 302 Sociology of Economy	6		
SPS 303 Modernity and Postmodernity	6		
<b>TOTAL</b>	<b>32</b>		
<b>YEAR TOTAL</b>	<b>61</b>		



## SOCIOLOGY DEGREE (without Thesis)

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
SPS 101 Introduction to Sociology	6	SPS 306 Social Movements	6
SPS 102 Classical Sociological Theories	6	SPS 314 Political Sociology	6
SPS 105 Introduction to Social Anthropology	6	SPS 333 Sociology of Religion	6
Foreign Languages I	5	SPS 325 Social Theory and Law	6
CS 001 Introduction to Computer Science	6	SPS 327 Contemporary Trends in Social Theory	6
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>30</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
PSY 102 Social Psychology I: Introduction to Social Psychology	5	SPS 401 Global Society	6
SPS 146 Introduction to Qualitative Social Science Methodology	7	One Course <i>Major and Minor elective courses from other subject areas</i>	6
SPS 147 Introduction to Quantitative Social Science Methodology	7	Three Courses <i>Support and Specialisation</i>	18
SPS 211 Contemporary Sociological Theories	6	<b>TOTAL</b>	<b>30</b>
Foreign Languages II	5	<b>YEAR TOTAL</b>	<b>60</b>
<b>TOTAL</b>	<b>30</b>	<b>4th YEAR</b>	
<b>YEAR TOTAL</b>	<b>59</b>	<b>7th Semester</b>	
<b>2nd YEAR</b>		Two Courses <i>Major and Minor elective courses from other subject areas</i>	12
<b>3rd Semester</b>		Three Courses <i>Support and Specialisation</i>	18
Foreign Languages III	5	<b>TOTAL</b>	<b>30</b>
SPS 212 History of Sociology	6	<b>8th Semester</b>	
SPS 221 Sociology of Deviance	6	One Course <i>Major and Minor elective courses from other subject areas</i>	6
SPS 231 Social Stratification	6	Four Courses <i>Support and Specialisation</i>	24
SPS 247 Quantitative Analysis in Sociological Research	6	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>29</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>4th Semester</b>		<b>GRAND TOTAL</b>	<b>240 ECTS</b>
SPS 241 Cyprus Society	6		
SPS 269 Basic Principals of Political Economy	8		
SPS 301 Cultural Sociology	6		
SPS 302 Sociology of Economy	6		
SPS 303 Modernity and Postmodernity	6		
<b>TOTAL</b>	<b>32</b>		
<b>YEAR TOTAL</b>	<b>61</b>		

## ANALYTICAL PROGRAMME OF STUDIES FOR JOURNALISM DEGREE

### CORE COURSES IN JOURNALISM

**7 Courses x 8 ECTS + 1 Course x 7 ECTS + 9 courses x 6 ECTS = 117 ECTS**

	ECTS
MSJ 101 Introduction to Journalism and Media Studies	6
MSJ 102 Introduction to Journalism and Media Studies (II practical component: Multimedia)	8
MSJ 151 Introduction to Economic and Statistical Analysis	8
MSJ 201 Modern History and Practice of Journalism	7
MSJ 211 Journalism, Law and Ethics	6
MSJ 202 History and Practice of Journalism (II) (Radio & Television, Internet)	8
MSJ 221 Journalism, Propaganda and Social Psychology	6
MSJ 301 History of Cyprus Journalism	6
MSJ 311 Media Technologies	6
MSJ 351 Lab, Journalism Practicum	8
MSJ 352 Lab, Journalism Practicum	8
MSJ 381 Political Communication	6
MSJ 391 Present and Future of Journalism	6
MSJ 401 Sports Journalism	6
MSJ 451 Lab, Journalism Practicum	8
MSJ 452 Lab, Journalism Practicum	8
MSJ 455 Introduction to Digital Production and Photography	5
MSJ 456 Advanced Digital Media Production	5
MSJ 481 Media and Society	6

### INTERDEPARTMENTAL COURSES

**POLITICAL SCIENCE 3 Courses x 6 ECTS= 18 ECTS**

SPS 151 Introduction to Political Science  
SPS 153 International Relations  
SPS 281 Contemporary Political Thought

**SOCIOLOGY 4 Courses x 6 ECTS= 24 ECTS**

SPS 101 Introduction to Sociology  
SPS 102 Classical Sociological Theory  
SPS 314 Political Sociology  
SPS 304 Sociology of Mass Media

**MODERN HISTORY 4 Courses X 5 ECTS = 20 ECTS**

HIST 108 Introduction to Modern Greek History  
HIST 181 Introduction to Modern European History  
(1789-1918)  
HIST 225 Political History of Modern Greece  
HIST 275 Modern History of Cyprus (1878-1974)

### MODERN GREEK AND BYZANTINE STUDIES

**3 Courses X 5 ECTS = 15 ECTS**

BNE 390 History of Modern Greek Literature  
BNE 160 Academic Writing  
GEP 140 Sociolinguistics

### ORGANIZATION AND COMMUNICATION SKILLS INTEGRATED IN THE CORE COURSES PROGRAMME

**3 Courses X 5 ECTS = 15 ECTS**

Foreign Languages I (5 ECTS)  
Foreign Languages II (5 ECTS)  
Foreign Languages III (5 ECTS)

### SUPPORT AND SPECIALIZATION COURSES FROM THE DEPARTMENT OF SOCIAL AND POLITICAL SCIENCES

**1 Course X 6 ECTS = 6 ECTS**

SPS 152 Comparative Politics  
SPS 157 Political Analysis and Methodology (8 ECTS)  
SPS 251 The Political System of Cyprus  
SPS 263 Greek-Turkish Relations  
SPS 272 International Organizations  
SPS 320 Ethnicity and Nationalism  
SPS 329 Sociology of Technology  
SPS 347 Myths, Misconceptions and the Misuse of Empirical  
Research in Social Sciences  
SPS 361 Cyprus and the European Union

### FROM THE DEPARTMENT OF HISTORY AND ARCHAEOLOGY

**1 Course X 5 ECTS = 5 ECTS**

HIST 105 Introduction to Historiography, Philosophy and  
Philosophy of History  
HIST 112 Introduction to Byzantine History  
HIST 144 Introduction to Ancient History  
HIST 285 Europe 1918-45: From the Treaty of Versailles to the  
Fall of Nazi Germany

### FROM THE DEPARTMENT OF MODERN GREEK AND BYZANTINE STUDIES

**1 Course X 5 ECTS = 5 ECTS**

BNE 230-299 or BNE 330-399

ELECTIVES FROM OTHER SUBJECT AREAS

**3 Courses X 5 ECTS = 15 ECTS**

### Recommended Electives

LAW 005 Criminology  
LAW 105 Constitutional Law  
LAW 171 History of Law System in Europe  
TUM 260 History of Modern Turkey

**Total of 40 Courses**

7 Courses X 8 ECTS =	56 ECTS
1 Course X 7 ECTS =	7 ECTS
17 Courses X 6 ECTS =	102 ECTS
15 Courses X 5 ECTS =	75 ECTS

**GRAND TOTAL**

**240 ECTS**

## JOURNALISM DEGREE

	ECTS		ECTS
<b>1st YEAR</b>		<b>3rd YEAR</b>	
<b>1st Semester</b>		<b>5th Semester</b>	
MSJ 101 Introduction to Journalism and Media Studies	6	MSJ 301 History of Cyprus Journalism	6
SPS 151 Introduction to Political Science	6	MSJ 311 Media Technologies	6
HIS 108 Introduction to Modern Greek History	5	MSJ 351 Lab, Journalism, Practicum	8
SPS 101 Introduction to Sociology	6	HIS 275 Modern History of Cyprus (1878-1974)	4
Foreign Languages I	5	BNE 160 Academic Writing	5
<b>TOTAL</b>	<b>28</b>	<b>TOTAL</b>	<b>29</b>
<b>2nd Semester</b>		<b>6th Semester</b>	
MSJ 102 Introduction to Journalism and Media Studies (II practical component: Multimedia)	8	MSJ 352 Lab, Journalism Practicum	8
MSJ 151 Introduction to Economic and Statistical Analysis	8	MSJ 381 Political Communication	6
BNE 390 History of Modern Greek Literature	5	MSJ 391 Present and Future of Journalism	6
HIS 225 Political History of Modern Greece	5	LAS 290 Sociolinguistics	5
Foreign Languages II	5	1 Course <i>Electives from other subject areas</i>	5
<b>TOTAL</b>	<b>31</b>	<b>TOTAL</b>	<b>30</b>
<b>YEAR TOTAL</b>	<b>61</b>	<b>YEAR TOTAL</b>	<b>59</b>
<b>2nd YEAR</b>		<b>4th YEAR</b>	
<b>3rd Semester</b>		<b>7th Semester</b>	
MSJ 201 Modern History and Practice of Journalism	7	MSJ 401 Sports Journalism	6
MSJ 211 Journalism, Law and Ethics	6	MSJ 451 Lab, Journalism Practicum	8
HIS 181 Introduction to European History (1789-1918)	5	MSJ 455 Introduction to Digital Production and Photography	5
SPS 153 International Relations	6	SPS 314 Political Sociology	6
Foreign Languages III	5	SPS 102 Classical Sociological Theories	6
<b>TOTAL</b>	<b>29</b>	<b>TOTAL</b>	<b>30</b>
<b>4th Semester</b>		<b>8th Semester</b>	
MSJ 202 History and Practice of Journalism (II) (Radio & Television, Internet)	7	MSJ 452 Lab, Journalism Practicum	8
MSJ 221 Journalism, Propaganda and Social Psychology	6	MSJ 481 Media and Society	6
SPS 281 Modern Political Thought	6	MSJ 456 Advance Digital Media Production	5
SPS 304 Sociology of Mass Media	6	2 Courses <i>Electives from other subject areas</i>	10
1 Course <i>Support and Specialization</i>	6	<b>TOTAL</b>	<b>30</b>
<b>TOTAL</b>	<b>31</b>	<b>YEAR TOTAL</b>	<b>60</b>
<b>YEAR TOTAL</b>	<b>61</b>	<b>GRAND TOTAL</b>	<b>240</b>









# Appendices

Academic Calendar

Maps

Telephone and Fax Directory

## Academic Calendar 2018-2019

	FALL SEMESTER 2018-2019	SPRING SEMESTER 2018-2019
REGISTRATION AND STUDENT ORIENTATION WEEK	27 -31 September	9 - 11 January
COMMENCEMENT OF CLASSES	3 September	14 January
DEADLINE FOR COURSE SELECTION	7 September	18 January
DEADLINE FOR COURSE REMOVAL	21 September	1 February
DEADLINE FOR COURSE WITHDRAWAL	19 October	1 March
END OF CLASSES	30 November	19 April
HOLIDAYS (EASTER)		22 April - 5 May
STUDY PERIOD	1 - 6 December	4 - 9 May
EXAMINATIONS	7 - 21 December*	10 - 24 May*
HOLIDAYS (CHRISTMAS)	22 December - 7 January	
PUBLIC HOLIDAYS	1 October 28 October 6 January (Epiphany Day)	11 March (Green Monday) 25 March 1 April 28 April (Easter) 1 May 17 June (Ascension Day)

\* In order to avoid any clash with other compulsory subjects, the students take first the Language Centre's examinations prior to the examination period.

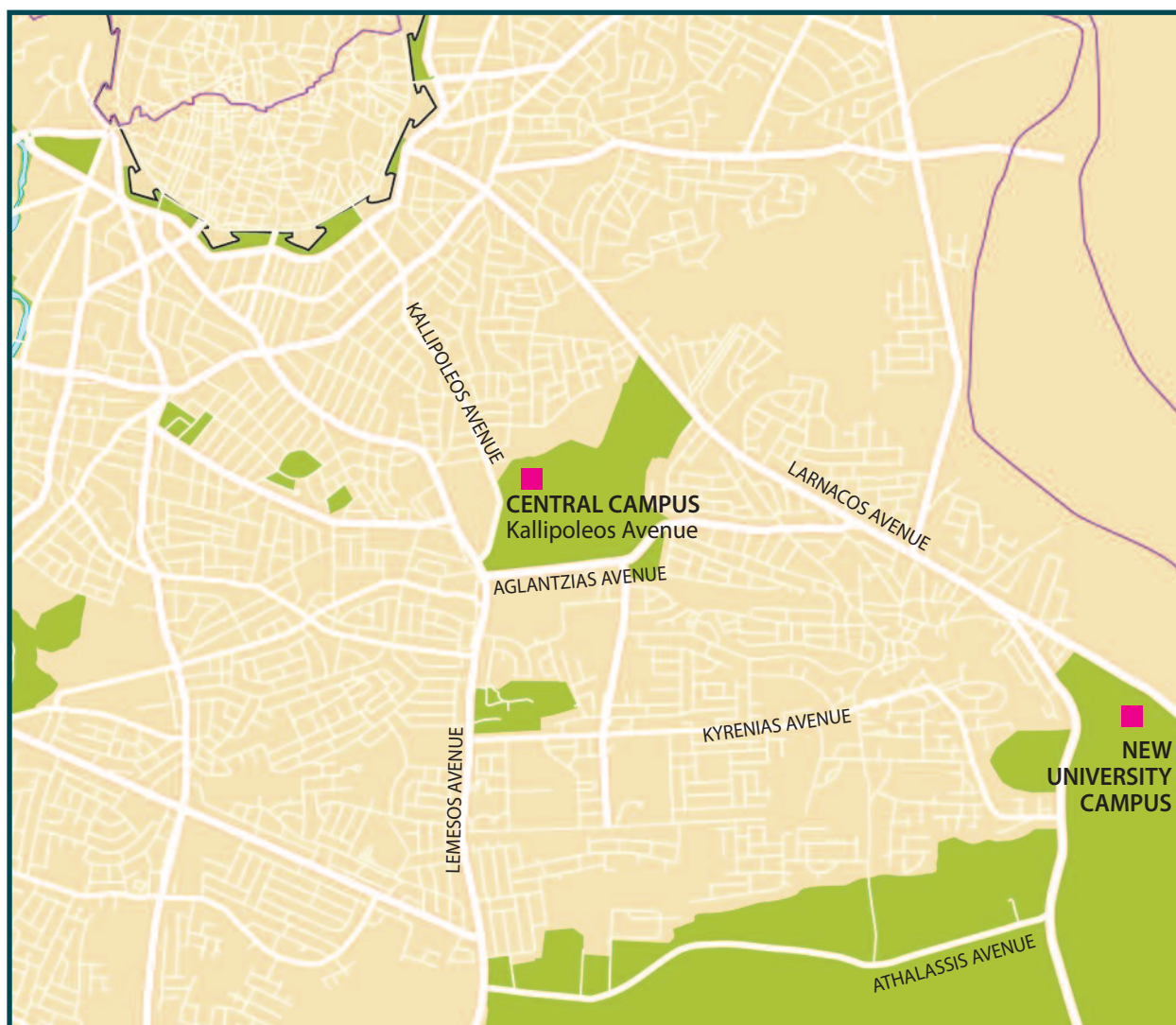
## Academic Calendar 2019-2020

	FALL SEMESTER 2019-2020	SPRING SEMESTER 2019-2020
REGISTRATION AND STUDENT ORIENTATION WEEK	26 - 30 August	7 - 12 January
COMMENCEMENT OF CLASSES	4 September	15 January
DEADLINE FOR COURSE SELECTION	6 September	17 January
DEADLINE FOR COURSE REMOVAL	20 September	31 January
DEADLINE FOR COURSE WITHDRAWAL	18 October	28 February
END OF CLASSES	29 December	30 April
HOLIDAYS (EASTER)		13 - 26 April
STUDY PERIOD	30 November - 5 December	2 - 7 May
EXAMINATIONS	6 - 20 December*	8 - 22 May*
HOLIDAYS (CHRISTMAS)	23 December - 8 January	
PUBLIC HOLIDAYS	1 October 28 October 6 January (Epiphany Day)	2 March (Green Monday) 25 March 1 April 19 April (Easter) 1 May 8 June (Ascension Day)

\* In order to avoid any clash with other compulsory subjects, the students take first the Language Centre's examinations prior to the examination period.



## University Buildings



For detailed maps: [www.ucy.ac.cy/maps-en](http://www.ucy.ac.cy/maps-en)

## University Campus



- |   |   |
|---|---|
| 1. University House "Anastastios G. Leventis" (ADM) | 9. Indoor Sports Hall (SFC)                             |
| 2. Common Teaching 01 (CTF 01)                      | 10. Services Buildings (SBD)                            |
| 3. Faculty of Pure and Applied Sciences (FST 01)    | 11. Energy Centre (ENC)                                 |
| 4. Faculty of Pure and Applied Sciences (FST 02)    | 12. Photovoltaic Research Lab                           |
| 5. Common Teaching 02 (CTF 02)                      | 13. Campus Supplementary Offices (CDO)                  |
| 6. Faculty of Economics and Management (FEB 01)     | 14. Residential A (SRA)                                 |
| 7. Faculty of Economics and Management (FEB 02)     | 15. Outdoor Sports Activities (SPF 02, 03, 08 - 15, 20) |
| 8. Social Facilities Centre (SFC)                   | 16. Photovoltaic Park "Phaethon" (RVP 01)               |

## Central Campus (Kallipoleos Avenue)



1. Department of History & Archaeology (D)
2. Restaurant (A)
3. Dean of the Faculty of Letters/School of Modern Greek (A)
4. Lecture Rooms (A)
5. Assembly Hall (A)
6. Library (A)
7. Engineering Labs (A)
8. Information Applications Services (P)
9. Dean of the Faculty of Humanities/  
Department of English Studies (M)

10. Gymnastics Room (N)
11. Wing E (Library/Lecture rooms) (E)
12. Chapel
13. Wing B (EDU Labs) (B)
14. Restaurant Utilities (G)
15. Main Server Room (S)
16. Labs (L)
17. Dean of the Faculty of Social Sciences and Education/  
Department of Psychology
18. Department of Turkish and Middle Eastern Studies

	TEL.	FAX
University Council Chairperson	22894350/4011	22894470
Rector's Office	22894008	22894469
Office of the Vice-Rector for Academic Affairs	22894003	22894468
Office of the Vice-Rector for International Affairs, Finance and Administration	22894005/6	22894467
Directorate of Administration and Finance	22894013	22894470
Call Center	22894000	

## FACULTIES

Economics and Management	22893610	22895032
Engineering	22892233	22895471
Graduate School	22894044	22894438
Humanities	22894423	22895046
Letters	22892008	22892009
Medical School	22894352	22895396
Pure and Applied Sciences	22892786	22892810
Social Sciences and Education	22893421	22895045

## ADMINISTRATIVE AND OTHER SERVICES

Academic Affairs and Student Welfare	22894021	22894463
Bank of Cyprus-Branch	22129832/1	
Express Services Office	22895555	22895480
Canteen (University House "A.G. Leventis")	22894425	
Canteen / Restaurant (Central Campus)	22892006	
CCS Ledra Ltd		22301130/1
Centre of Continuing Education, Assessment and Development	22894151	22895060
Centre of Teaching and Learning	22894546	22894548
Cultural Centre (Axiothea Mansion)	22894531	22895053
Financial Services	22894106	22894465
Health Centre (Central Campus)	22895280	
Health Centre (New Campus)	22895270	
Human Resources	22894177	22894480
IT Infrastructure Service	22895100	22895520
Information Applications Services	22892130	22894434
International Relations	22894288	22894472
Library	22892020	22895495
Legal Counsellor of the University	22894145	22894480
Mental Health Centre	22892136	
Operations Directorate (renting spaces)	22894174	22895061
Parga Book Center/UCY Copy Center/ Post Office services/UCY Shop	22022876	
Research Support Service	22894286/4313	22895506
Security (Central Campus)	22892011	
Security (New Campus)	22894055	
Sports Centre	22894182	22894190
Technical Services	22894200	22894464
University of Cyprus Radio Station	22895140	22895064

	TEL.	FAX
<b>ACADEMIC DEPARTMENTS / RESEARCH UNITS</b>		
Accounting and Finance	22893605/36	22895475
Archaeological Research Unit	22893560	22895057
Architecture	22892960/80	22895056
Biological Sciences	22892880/94	22895095
Byzantine and Modern Greek Studies	22893870/80	22894490
Business and Public Administration	228923650	22895030
Centre for Applied Neuroscience	22895190	22895076
Centre for Banking and Financial Research	22892496	22892421
Centre for Teaching and Learning	22894546	
Center for Gender Studies	22892959	22894488
Center of Entrepreneurship	22895110	22895055
Chemistry	22892780/2800	22892801
Civil and Environmental Engineering	22892200/49	22895080
Classics and Philosophy	22893850	22894491
Computer Science	22892700	22892701
Confucius Institute at UCY	22895123	22895297
Economics	22893700/01/02	22895028
Economics Research Centre	22893660	22895027
Education	22892940	22894488
Electrical and Computer Engineering	22892240	22895079
EMPHASIS Research Centre	22893812	
English Studies	22892101/02	22895067
French and European Studies	22894370	22894387
History and Archaeology	22892180	22895068
Institute Cervantes Nicosia	22895136	22895014
International Water Research Institute "Nireas"	22893515	22895365
Language Centre	22892901	22894439
Law	22892920	22892910
Mathematics and Statistics	22892600/3921	22895072
Mechanical and Manufacturing Engineering	22892280/48/50	22895081
Modern Greek Studies Research Center	22893825	
Nanotechnology Research Center	22892280	22895081
Oceanography Centre	22893988	22895051
KIOS Research and Innovation Center of Excellence	22893450	22893455
Research Centre for Molecular Medicine	22892882	22895371
Research Centre for Sustainable Energy (FOSS)	22892272	22895079
Turkish and Middle Eastern Studies	22893950	22895040
Physics	22892820/2826	22892821
Psychology	22892070/86	22895075
School of Modern Greek	22892028	22895066
Social and Political Sciences	22894561/60	22894559
University of Cyprus Centre for Field Research	22895257	

## STUDENT UNION

Students' Union	22894026	22894485
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**[www.ucy.ac.cy](http://www.ucy.ac.cy)**

**UNIVERSITY OF CYPRUS**

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