



SHIMANE
University

SHIMANE UNIVERSITY

PROSPECTUS 2017

CONTENTS

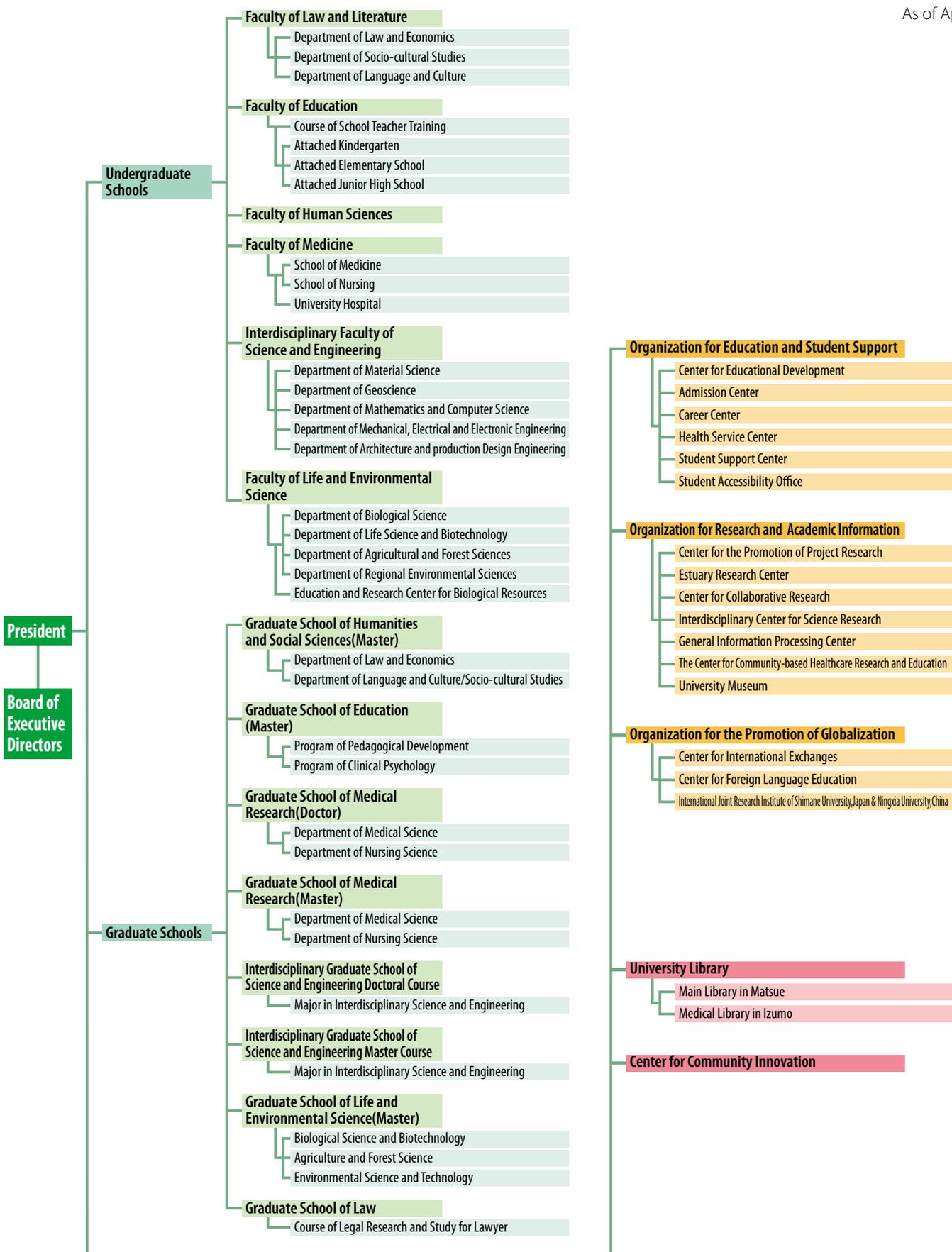
- 1...Organization
- 2...Message from the President
- 3...Shimane University's Charter
- 4...The Strategy for International Exchanges
- 5...Faculty of Law and Literature
- 9...Faculty of Education
- 13...Faculty of Human Sciences
- 15...Faculty of Medicine
- 19...Interdisciplinary Faculty of Science and Engineering
- 23...Faculty of Life and Environmental Science
- 27...Shimane University Hospital
- 29...Attached Facilities and Institutions
- 33...The Outstanding Research Projects of Shimane University
- 37...Admission Information
- 39...Guide for International Students
- 41...Campus Life
- 43...Messages from International Partners
- 45...International Exchanges
- 47...Number of Students
- 48...Campus Maps
- 49...Brief Introduction to Matsue City and Izumo City
- 50...Access to Shimane University



STUDY in JAPAN

Organization

As of April, 2017



Message from the President

Welcome to Shimane University !

Dr. Yasunao HATTORI

President of Shimane University



Shimane University was established as a national university in 1949, although we can trace our roots back to a teacher training college which was established in 1876. Since its establishment, Shimane University has continued to expand and now consists of six faculties on two campuses. The Matsue campus is home to the Faculty of Law and Literature, the Faculty of Education, the Interdisciplinary Faculty of Science and Engineering, the Faculty of Life and Environmental Science, along with all of the Graduate Courses in these faculties, and the Faculty of Human Sciences (established April 1, 2017). Our newest faculty fosters students who will contribute to society by focusing on psychology, social welfare, and health science. On the Izumo campus, we have the Faculty of Medicine and its graduate courses.

Shimane University's goal is to enable students to develop international perspectives and their ability to be leaders in each region of the world. While studying here, students are equipped with the ability to cope with diverse problems like those they encounter in modern society. There are also empowered to take advantage of their accumulated knowledge, their cross-cultural awareness, and their technological

skills. Furthermore, I believe that an important mission of Shimane University is to contribute to international society through creative research that is of an international standard.

Currently, we have about 200 international students from various countries, and they are working hard to master their specialized fields. Studying alongside Japanese friends and other international students, these students also learn Japanese traditions and culture. Shimane University is located in a place well-endowed with nature, including Lake Shinji, the Oki Islands, and Sanbe Mountain. In addition, Shimane Prefecture has many historical and cultural assets such as the Iwami Ginzan Silver Mine, Izumo Taisha Grand Shrine, and Matsue Castle. Living here, students may come to feel a connection to the good nature, history, and culture of Japan. Thus, they can devote themselves to studying and learning in a peaceful environment with rich and abundant nature at Shimane University.

I – along with all the staff members and students – sincerely hope that you will choose to come to Shimane University and enjoy your college life here.

Shimane University's Charter

Shimane University's goals are:

1 To foster the development of individuals with initiative who possess a high degree of expertise and human compassion.

Shimane University shall cultivate individuals with a high degree of expertise who can take on important roles in modern society and have as a foundation a high sense of public-mindedness and ethics.

Shimane University shall offer an educational environment within the rich nature, history, and culture of the Sanin region where students can freely devote themselves as autonomous individuals to learning while being actively involved in society through academic and other related activities.

2 To promote a high international standard of research based on unique, local issues.

Shimane University shall promote research in a diverse range of academic fields to respond to the multi-faceted demands of society, further develop distinctive, interdisciplinary research, and create an internationally-recognized center for original research.

Shimane University, in response to societal demands, shall promote unique research projects that are based on local issues.

3 To promote social service programs that can solve local problems.

Shimane University shall disseminate the results of its academic research through education, scholarship, research, and medical services.

By cooperating and collaborating with local citizens, Shimane University shall endeavor to solve the problems of the local community and contribute to the building of a prosperous society.

4 To promote international exchange with Asian and other foreign countries.

Shimane University, as a regionally-based international university, shall contribute to peace and development of other foreign countries, starting with Asia, by disseminating valuable information and promoting exchanges of academic research, culture, and people.

5 To respect academic freedom and human rights and promote public trust in the university.

Shimane University shall lay an appropriate foundation as a seat of learning by honoring the spirit of the pursuit of truth, by respecting academic freedom and human rights, and by promoting harmony with the environment.

The management of Shimane University shall be transparent and proactive and reflect the opinions held both inside and outside the university.

The Strategy for International Exchanges

After its incorporation, Shimane University was very proud to set forth its Charter with the slogan “Shimane University is growing with its people and community.” Since then, the university has been offering a world-class education and research based on distinctive regional challenges and international exchanges with foreign countries, especially within Asia. For the purpose of implementing the spirit of Shimane University’s Charter, we enacted the Strategy for International Exchanges of our University on March 25, 2008. To meet the challenges of implementing this strategy, we developed the following mission and vision statements.

1 Mission

From a global viewpoint, emphasizing the focus on the coalition with Asia, our mission is to foster human resources who contribute to developing an international peaceful society, promote social progress, conduct world-class researches based on regional challenges, and to enhance Shimane University’s reputation by showing our achievements with the world.

2 Vision

- ① To develop human resources by expanding horizons and offering a world class education that will enable future leaders to contribute to the world, particularly within Asia.
- ② To create cutting edge outcomes in international academic exchanges by strengthening the cooperation with already established sister institutions overseas, and meeting distinctive regional challenges.
- ③ To develop salient international cooperation programs with various international institutions. These programs have the potential to build Shimane University’s brand reputation and cultivate the international competitiveness of students, staffs and faculties.
- ④ To promote internationalization at our university by underpinning international academic exchanges between concerned institutions.

Faculty of Law and Literature



The Faculty of Law and Literature covers a wide range of fields in humanities and social sciences. It is an organization of about 60 faculty members and 860 students. You can study a variety of research fields in small-size classes, where you feel it is easy to ask questions or ask for advice from teachers and classmates. The faculty also plays a close role with communities in the region. A lot of students actively take part in social research, archaeological research, city planning and NPO activities. We offer graduate programs in humanities and social sciences as well. Each program aims to educate students in

developing academic information literacy to play a useful part in today's highly information-oriented society.

The faculty is located in Matsue, a beautiful castle city with a long history and unique cultural traditions. International students enjoy participating in local festivals and cultural activities. When you move to Matsue, you will learn first hand about Japanese society and culture in your daily life.

International Admission Policy

We seek students with a strong motivation to study and a clear vision of the future. Our faculty and staff are committed to ensuring that our students acquire academic knowledge of their interest, develop research skills, and make full use of their knowledge and skills in society.

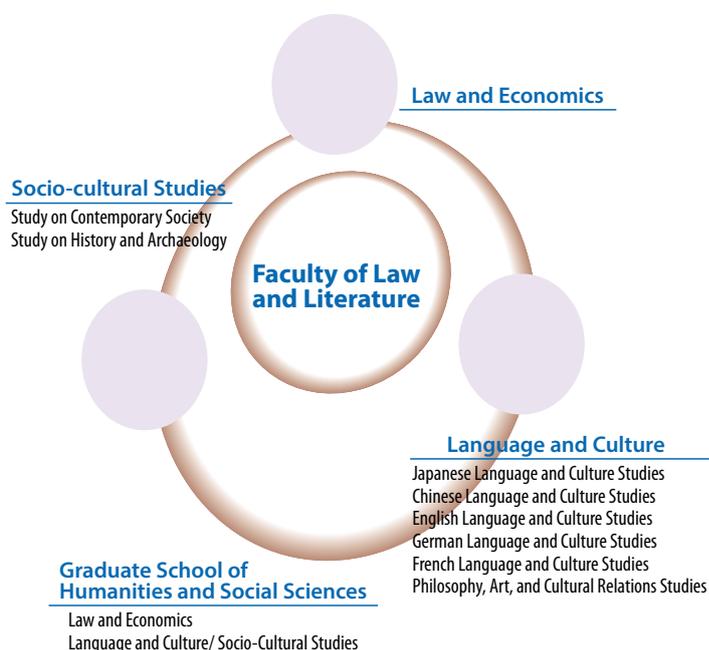
A candidate must have graduated from high school or have achieved the equivalent of high school education. International students are also required to have a high level of proficiency in Japanese language (the first grade of Japanese Language Proficiency Test) since education is conducted in Japanese. For more information, visit our homepage. URL:<http://www.hobun.shimane-u.ac.jp/> (Japanese)



Message from Dean

Professor Ikuo TASAKA

Shimane University is located on the Sea of Japan, on the north side of the mountains running through Japan. This area has a long history of cultural exchange with Asia and is blessed with abundant nature. Japan, as a nation, is currently being challenged to solve two problems: a decreasing and an ageing population. With an eye to the future, the Law and Literature Faculty is grappling with, studying, and seeking immediate solutions to these local issues. Although our faculty is small, most fields of study in the humanities and social science are provided. Students can take most classes regardless of the department to which they belong, so they can acquire broad as well as specialized knowledge. Having an open-minded, internationally-focused faculty is the aim of both our education and research. We have accepted many students from many other countries and have sent students to other countries as well. As the dean, I look forward to seeing students from all over the world attending our university.



•Department of Law and Economics

Study on Law and Economics

The Department of Law and Economics provides a lot of lectures about both fields of law and economics. Our educational purpose is to study society by making use of viewpoints in both fields.



Regional communities have many problems to be solved, for example, the environment, a declining birthrate and aging population, decentralization of power, hill and mountain areas, promotion of communities, to name a few. In addition, concerning the life of citizens, new movements in the fields of labor, family and economy have been the big issues.

We expect students to gain the basic knowledge of law and economics, to apply them, and to acquire an ability of analyzing situations, formulating policies, and solving problems.



URL:

<http://www.hobun.shimane-u.ac.jp/houkei/> (Japanese)

•Department of Socio-Cultural Studies

Study on Contemporary Society

Study on History and Archaeology

This department provides two study courses for students who are interested in socio-cultural studies. In the course of **Study on Contemporary Society**, students can study, sociology, geography and cultural anthropology. This course contributes to developing students' ability to understand and explain the relationship between human beings and community, the structure and functions of community, and characteristics of community culture. In addition to the lectures and seminars, students are provided with the opportunities to learn the analytical methods through experimentation, observation, social research and fieldwork.



In the course of **Study on History and Archaeology**, there are five fields: Japanese History, Asian History, European History, Contemporary History and Archaeology. Students will have the opportunity to study history and Archaeology from a broad perspective and will deepen their understanding from theoretical studies, through field research and excavation. Further, there are several voluntary seminars, held outside regular class hours, that students plan and carry out themselves with faculty support. The annual grand tour is also planned by the students. This is an outstanding tradition and a unique characteristic which is not often seen at other universities.

URL:

<http://www.hobun.shimane-u.ac.jp/shakaibunka/> (Japanese)



Faculty of Law and Literature

● Department of Language and Culture

Japanese Language and Culture Studies

Chinese Language and Culture Studies

English Language and Culture Studies

German Language and Culture Studies

French Language and Culture Studies

Philosophy, Art, and Cultural Relations Studies

The department provides the above six study areas.

Japanese Language and Culture Studies provides programs on Japanese Language and Japanese Literature. Students learn the history of Japanese language, syntax, phonetics, dialects, and other linguistic foundations. Literature majors study the picture scrolls and manuscripts from the Edo era and novels of the Meiji period. **Chinese Language and Culture Studies** provides classes that extend from the Chinese myths to contemporary literature along with the history, culture and ideas.



English Language and Culture Studies provides classes that cover the 16th-century English poetry to 21st-century American novels, and also gives courses on cross-cultural studies and English linguistics. Several classes are taught in English by native English speakers. **German Language and Culture Studies** has classes in which students read medieval to contemporary German texts, and guides students to develop understanding of German culture. **French Language and Culture Studies** provides courses on French linguistics and literature, Francophone cultures, and comparative studies with Asian and/or Anglophone literatures and cultures.

Philosophy, Art, and Cultural Relations Studies focuses on the study of various cultural activities in which cultures are inherited, altered through collision, or newly created. It guides students to learn research methods and apply them in interpretation of art, understanding of thoughts, and intercultural communication studies.

URL:

<http://www.hobun.shimane-u.ac.jp/gengobunka/> (Japanese)



● Graduate School of Humanities and Social Sciences

The Graduate School of Humanities and Social Sciences was established in April 1997 following reorganization and expansion of the Graduate School of Law, which was founded in April 1988.

Although each department has its own educational goal, the graduate school as a whole also has a common goal: to cope with a highly information-oriented society. In order to achieve this goal effectively, the school offers systematically organized courses which can be interdisciplinary.

After a rigorous entrance process, graduate students choose one of four courses, taking into consideration their research interests and future career plans. The students then carry out individual studies under an academic adviser who instructs and guides them through their studies culminating in a thesis.

Law and Economics

Law and Politics

This course is intended to improve the abilities to identify, analyze and solve legal and political problems that arise in



public policymaking, administration and management in contemporary society. The design of the course is intended for students in preparation to be legal and administrative experts.



Regional Economics

The objective of this course is to cultivate practical knowledge and the ability to handle problems concerned with regional economies, industrial enterprise, financing, statistics, and surveys.

Language and Culture / Socio-cultural Studies

Language and Culture

In response to the needs of an internationalized and information-oriented society, this course is designed to foster students who can analyze and resolve real problems such as intercultural exchanges and conflicts. In addition, it is designed to improve the abilities of students who are involved in academic research on comparative studies of cultures based on their language problems of choice, i.e. Japanese, Chinese, English, German, or French, and its literature.

Socio-cultural Studies

This course consists of four branches: sociology, geography,



cultural anthropology, and history, archaeology. The purpose of this course is to cultivate abilities to handle social and cultural issues in the region, as well as international relations and cultural exchange from an interdisciplinary viewpoint.



Faculty of Education



The Faculty of Education is the only institution in the San-in area dedicated to training a new generation of teachers, who actively solve local problems connected with education, and take the lead in educating children who will be the driving force of the future of Japan.

URL:<http://www.edu.shimane-u.ac.jp/>

International Admission Policy

We accept international students with a clear vision in their academic research and their own future. We provide advanced lectures in the field of school education consisting of following academic areas: elementary education; special support education; language and culture education; social studies education; fundamental mathematics education; nature science education; human health education; art education; and music education.

Please contact us!

URL:http://www.edu.shimane-u.ac.jp/english/Shimane_University/



Message from Dean

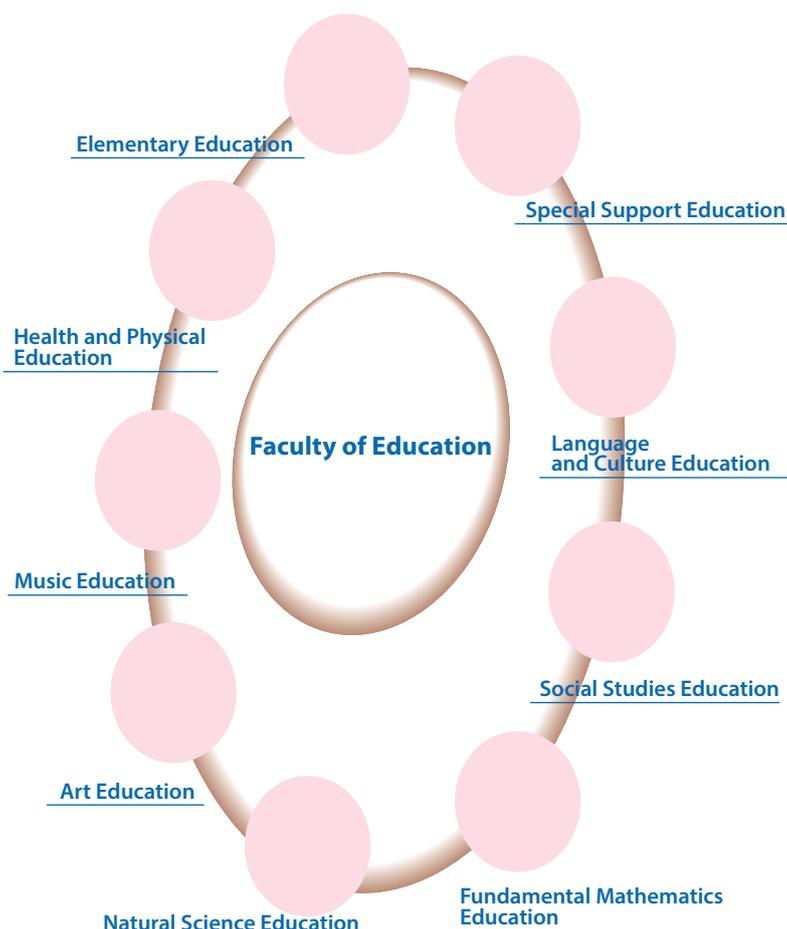
Professor Iwao OGAWA

I am pleased to present this information concerning the Faculty of Education of Shimane University.

We initiated major curriculum reforms in the undergraduate and graduate schools in 2004 and 2008 so we can provide students with the specialized skills they will need as teachers in the twenty-first century. The reforms include 1000-hour experience-based learning programs, major and minor course systems and profiling systems for individual undergraduates' learning processes and outcomes.

The 1000-hour experience-based learning programs make it possible for students to integrate knowledge or skills learned in classrooms and diverse experiences communicating with or teaching children in the community or at schools. By using the profiling systems, students can identify their own courses of development and needed areas of study to become teachers through collaboration with their instructors.

Please join us and achieve your dream to become a teacher. We look forward to meeting you at the forefront of teaching education in Japan in the beautiful old town of Matsue.



Curriculum Program

Elementary Education
Special Support Education
Language and Culture Education
Social Studies Education
Fundamental Mathematics Education
Natural Science Education
Health and Physical Education
Music Education
Art Education



Basic Characteristics of Our Programs

Awareness and Knowledge for the Teaching Profession

We aim to encourage students to have self-awareness as specialists and to understand the social mission of the teaching profession by providing them with an extensive knowledge of juvenile education and educational planning. Students can learn a range of skills and abilities such as leadership, communication and collaboration, using information and communications technology and performance of the teacher as an active participant at different levels of society.



Scientific Thought and Spirit of Inquiry

Leading students to become competent using a scientifically based method, we inspire them to systematically master a good grounding in expert knowledge in the form of teaching content, and to understand the guiding technique of subjects and how to organize a curriculum. Students are also required to have broad expertise in both major and minor courses and to submit their graduation thesis in a major subject.



Teaching Experience and the Clinical Mind

We encourage students to properly understand children and to gain practical experience, which is indispensable to the teaching profession. We provide them with a systematic, on-going and close relationship with children, on-the-job teaching practice and clinical training in school education. Students are required to improve their ability to selfreflect by completing portfolio tasks under close supervision.

The Major and Minor Course System

At the beginning of the second semester, freshmen decide which major and minor subjects to take; this leads to at least two certifications for teaching different subjects. Students must complete the courses for both major and minor subjects.



1,000-hour Experiential Program

How can teachers work with children and their parents? How can they plan and carry out extracurricular activities? It is difficult to learn these practices simply by studying text books.

The 1,000-hour Experiential Program immerses students in hands-on experiences where they meet and talk with people, especially with children from the communities surrounding Shimane University. This special program consists of two subprograms: "Introduction to the Practicum," which puts students in direct contact with children in various environments and the "Practical Education Program," where students practice teaching at school and develops and enhances basic skills in clinical psychology, including counseling.

The profile sheet system provide both an objective evaluation and a self-assessment of students' accumulated experiences, accompanied by radar charts.



The Program for the Natural Science & Environmental Education-Kankyo Terakoya

Children's "losing interest in science" is now a major social problem. We have this special program so that teachers can become well-versed in the natural sciences and environmental education.

By developing their basic knowledge concerning the natural



Organizational Image of "KANKYO TERAKOYA Programs"

sciences and the physical environment, students can learn how to plan and carry out diverse activities and experiments relating to natural science education. The program also cultivates their leadership skills. We intend for graduates to be able to arouse children's interest in the natural sciences and the environment.



The Graduate School of Education

The Teaching Profession Graduate School (The Program for Developing Pedagogical Practice)

The purpose of our graduate school is to bring up school leaders.

Our program aims to cultivate teachers with high qualities and abilities, which are essential to become school leaders. The school leader must have highly advanced skills to analyze and precisely explain the advantages and disadvantages in regards to diverse dimensions of pedagogy, and to take initiative to resolve the problems of the school and the community by collaborating with colleagues and citizens.

The graduate students learn the most up-to-date knowledge on school management, designing a class, and supporting children at school. The curriculum also deals with the actual needs of today's schools, especially those in the San'in region (Shimane and Tottori Prefectures) as follows:

- * Managing the class and the school, based on the perspectives of special needs education
- * Education in remote areas
- * Evidence-based class improvement
- * Teacher training by utilizing the rubric for professional development
- * Practical use of ICT for distance learning

<Requirements for admission>

All applicants must have at least one kind of teacher's certificate from Japan.

The Teaching Profession Graduate School



The Program of Clinical Psychology

This program aims to develop clinical psychology experts with the advanced abilities of making psychological assessments, conducting psychological interviews, and providing the community support. Throughout the curriculum, students can acquire a high level of professionalism and practical capabilities as clinical psychologists; meanwhile, they learn to help schoolchildren with difficulties adjust to the social environment by collaborating with colleagues and relevant organs.

Graduates of this program seek careers as school counselors, therapists, and other specialists in the field of psychology.

The Program of Clinical Psychology



Faculty of Human Sciences



The Faculty of Human Sciences provides programs in which students can acquire a capacity for understanding humans “mentally,” “physically” and “socially,” and deepen their expertise. They can directly see, feel and learn on site from the first year to the last year. The faculty provides subjects in which students can acquire capabilities of hypothesis testing, theorization and schematization, and classes in which they can discuss regional practice and research with one another. Through these experiences,

we provide opportunities for the students to develop the capabilities to address issues in cooperation with people in various fields.

International Admission Policy

We accept students with the following capabilities and qualities.

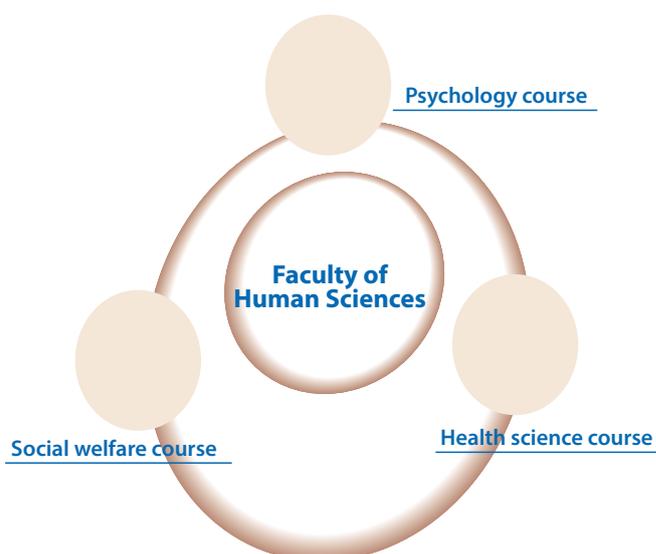
- Students who are interested in understanding humans sympathetically and objectively
- Students who are willing to voluntarily study to work out solutions for the problems humans have in society and who are willing to contribute to local communities using their expertise
- Students who have an attitude to develop themselves and make efforts to solve problems in cooperation with others



Message from Dean

Professor Toshiki MURASE

The Faculty of Human Sciences develops student’s abilities to understand human characteristics and realize a society in which people can live by their own values. Students can learn about humans multi-directionally from the physical, mental and social aspects. The faculty provides programs in which students can learn in various local fields so that they can link what they learn with the scientific mind and theories. Furthermore, they can acquire the capability to solve problems in cooperation with people with different ideas. Shimane Prefecture, where our university is located, is an area rich with nature and Japanese cultural heritage and comfortable to live. We welcome students from various parts of the world to think about humans from various viewpoints in order to seek solutions for the problems people face.



Psychology course

It is necessary to have both the viewpoints of consideration of unique individuals and understanding the general principles of the human mind in order to understand humans. Students learn about the human mind and behavior multi-directionally by understanding the human mind and behavior scientifically through experiments and research, and by understanding the human mind practically, sympathetically and objectively. In the regional practice class, students learn empirically through involvement with local people. Through study, we build the capabilities to understand the human mind and behavior, and support people in mental aspects.



Social welfare course

Welfare services are indispensable for our lives as acts that guarantee human dignity. In this course, students consider problems that beset Japanese society in depth from a viewpoint of supporting people. Simultaneously, they can develop the basic capability for how they should think and act in order to prevent people from suffering alone from livelihood problems. The idea and practice of welfare, which supports and links people, draws out the strengths in them. The social welfare course develops human resources who create a place where the strengths of individuals are drawn out in local communities (certified social workers and psychiatric social workers).

Health science course

Health has physical, mental and social aspects. In this course, students learn about physical health scientifically. Students learn under teachers in various fields such as exercise physiology, biomechanics, occupational health, environmental health and business economics related to health garments and healthcare. We develop human resources who can support people's health and a healthy, long-lived society through various classes and practices in social health facilities.



Faculty of Medicine



[Basic Idea]

Education and research, and medical service are conducted to equip students with a sense of culture and ethics from an international viewpoint, and cultivate in them the spirit of scientific inquiry, of developing medical and nursing sciences, and consequently making a contribution to the development of the community and the welfare of humanity.

[Educational Goal]

The educational goal is to produce doctors and nurses who are able to meet the needs of the times by developing in the students a sense of culture and ethics and the spirit of scientific

inquiry as well as a humanistic orientation which will enable them to maintain the utmost respect for human life.

[History]

Shimane Medical University was founded in 1975 and has sent more than 3,000 outstanding physicians to medical facilities all over Japan. In 1999, the School of Nursing was established to educate and train nurses in this growing field. Shimane Medical University was merged into Shimane University on October 1, 2003 and became the Faculty of Medicine of Shimane University. Our campus is located in Izumo City and is separate from other facilities located in Matsue. It consists of almost 300 academic staffs and almost 850 undergraduate students.

The Faculty of Medicine has 45 departments in the School of Medicine and 3 departments in the School of Nursing. The undergraduate course for the School of Medicine lasts 6 years and that of the School of Nursing lasts 4 years.

International Admission Policy

We accept international students with a clear vision in their academic research and their own future. We provide advanced lectures in every academic area with a focus on basic and clinical medicine.

Please contact us!

URL:<http://www.med.shimane-u.ac.jp/> (Japanese)

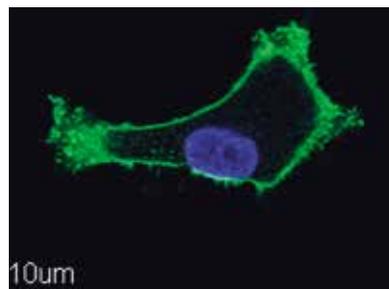


Message from Dean

Professor Shuhei YAMAGUCHI

Welcome to the Izumo campus of Shimane University. The Faculty of Medicine, composed of the School of Medicine and School of Nursing, is located in Izumo, the second largest city in Shimane Prefecture. About 1,000 students are studying medicine and nursing here. In addition, we have more than 25 foreign students and researchers from 5 different countries. Our campus has various well-organized laboratories and facilities that are utilized for medical and biological research projects. We also have a highly equipped medical center where a number of clinical research projects are ongoing, as we develop new medical devices and techniques. Foreign students and researchers can observe research activities and are encouraged to participate in these projects.

The Izumo area is strongly connected to the establishment of ancient Japan with many interesting historical and cultural places to visit. For example, Izumo-Taisha shrine, where you can feel the Japanese spirit, is one of the oldest and most famous shrines in Japan. And the nearby Iwami Ginzan Silver Mine is a World Heritage Site (UNESCO) surrounded by beautiful mountains. Our sincere hope is that many foreign visitors will join us to enjoy academic and cultural activities in and around the Izumo Campus of Shimane University.



Research for pancreatic carcinoma

Pancreatic carcinoma is a highly lethal cancer. More than 90% of patients die within 5 years of their diagnosis and 75% of patients die within the first year. The mortality rate in Shimane Prefecture is above the national average.

The immune system attacks foreign invaders in our body, but it doesn't always recognize cancer cells as enemies. A monoclonal antibody (mAb) is a laboratory-produced molecule that mimics the antibody our body naturally produces as part of our immune system's response to foreign invaders. mAb can be directed to attach to certain parts of a cancer cell surface. mAb circulates throughout the body until it finds and attaches to the cancer cell. Once attached, mAb can recruit other parts of the immune system to destroy the cancer cells. mAb also can deliver anti-cancer drugs directly to the cancer cells. These drugs only damage the cancer cells, leaving the surrounding healthy cells undamaged.

We generated mAbs against the cell surface of human pancreatic cancer cell line MIA PaCa-2. In a living pancreatic cancer xenograft mouse model, one of these mAbs demonstrated a tumor-targeting capability and the mAb-labeled liposome containing anti-pancreatic cancer drug inhibited primary tumor growth.

We will make a number of monoclonal antibody drugs to treat pancreatic cancer.

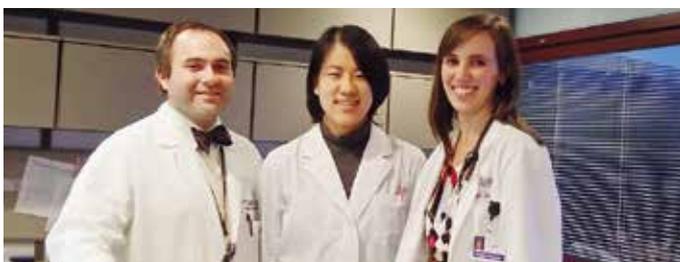
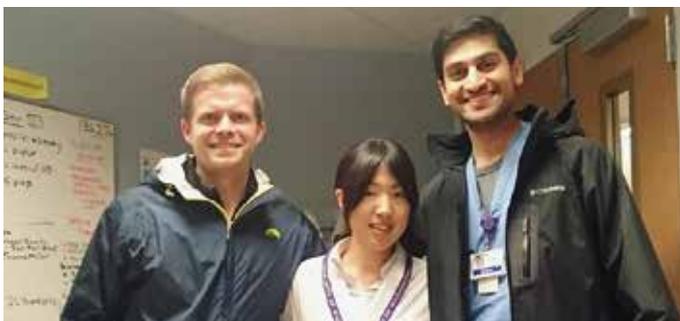
Rural Medical Education

Shimane University Faculty of Medicine offers a unique medical education program to medical students and residents who desire to serve as physicians in rural settings. This program, which is conducted through close cooperation between our university and a variety of hospitals and clinics in Shimane Prefecture, is in response to the growing health care needs evident in rural areas of Shimane and the rest of the nation.

Located in a rural area of Japan, Shimane Prefecture is now facing a shortage of health care professionals, especially physicians. To help solve the physician shortage, we introduced 'the physician shortage area program', which seeks to recruit, admit and prepare medical students from Shimane, who will, upon completion of residency training, locate and practice in rural Shimane as primary care physicians. We also introduced a rural experience program and implemented the program in our medical course to help students understand the importance of patient-centered medicine in rural settings and motivate them to become interested in rural medicine. We expect that the students who have studied through the program to choose to practice rural primary care medicine in Shimane in the near future. We have now started to apply the program to our postgraduate medical course.

We have also built a collaborative relationship with the University of Washington (UW) School of Medicine, which provides an excellent rural medical education program called "WWAMI program". It is a joint education program among UW and the states of Washington, Wyoming, Alaska, Montana, and Idaho. Since 2006, we have visited teachers and medical staff at UW to learn more about the program and get feedback from them on our own medical education system. We also have visited other overseas universities and hospitals which are well-known for their prominent medical educational programs. From 2005-2013, more than 240 staff, most of whom were faculty members, have visited such universities and hospitals overseas to improve their clinical skills and have a better understanding of rural medicine.

Through the implementation of our unique rural medical education program and enhancement of international collaboration, we will continue to contribute to better healthcare service in our own community.



•School of Medicine

Department of Developmental Biology
Department of Anatomy and Morphological Neuroscience
Department of Environmental Physiology
Department of Neural and Muscular Physiology
Department of Medical Biochemistry
Department of Biochemistry,
Division of Molecular Medicine
Department of Life Science
Biology/Physics/Chemistry
Department of Pharmacology
Department of Pathology, Functional Pathology Section
Department of Pathology, Organ Pathology Section
Department of Microbiology
Department of Immunology
Department of Legal Medicine
Department of Public Health
Department of Environmental Preventive Medicine
Department of Medical Informatics
Department of Medical English Education
Department of Internal Medicine I
Department of Internal Medicine II
Department of Internal Medicine III
Department of Internal Medicine IV
Department of Internal Medicine
Division of Medical Oncology & Respiratory Medicine
Department of Dermatology
Department of Pediatrics
Department of Digestive and General Surgery
Department of Cardiovascular and Chest Surgery
Department of Orthopaedic Surgery
Department of Neurosurgery
Department of Urology
Department of Psychiatry
Department of Obstetrics and Gynecology
Department of Otorhinolaryngology
Department of Ophthalmology
Department of Radiology
Department of Radiation Oncology
Department of Anesthesiology
Department of Palliative Care
Department of Oral and Maxillofacial Surgery
Department of Laboratory Medicine
Department of Emergency and Critical Care Medicine
Department of Acute Care Surgery
Department of Medical Education and Research
Department of Community Medicine Management
Department of General Medicine
Department of Community Based Health Policy

•School of Nursing

Department of Fundamental Nursing
Department of Clinical Nursing
Department of Community Health and Gerontological Nursing

Faculty of Medicine



• Graduate School of Medical Research Master's Course Medical Science:

1. Medical Research Course

The purpose of this course is to educate bachelors of non-medical fields to integrate their expertise with basic and clinical medical science. It aims to develop the ability to do research and other work.

2. Oncology Pharmacy Course

The oncology pharmacy course focuses on the development of competencies for pharmacists who desire to be an oncology pharmacy specialist (certified pharmacist in oncology pharmacy). In addition to providing lectures and research projects for clinical pharmacology and therapeutics in malignancies, this course provides training sessions at the University Hospital to learn practical knowledge and skills in pharmaceutical intervention and care for cancer patients.

3. Coordinator Course for Community Medicine

This Coordinator Course for Community Medicine started in 2009. This course aims to foster coordinators who can support rural doctors and help coordinate community medicine. This course provides the opportunity to experience a community medical practice session each year.

4. Instructor Course of Medical Simulation

Medical simulation training is important for improving healthcare and patient safety. The aim of this course is to foster excellent instructors, who are capable of educating high-quality medical simulation for medical students, clinicians, educators and other medical staffs. This course provides developmental training programs, as well as flexible and adaptable curricula for the learners.

5. Medical Staff Course for Integrated Community Health Care System

This course has just started at 2015 and its focus is the cultivation of human resources with a mind for conducting researches in an integrated community health care system. After receiving this training, medical staff working not only at health care institutions but also at town offices has to be able to clear up a questionable points in the system and to perform a study for a solution on their own.





Nursing Science

The master's course of nursing science provides lifelong learning opportunities to nurses who wish to develop their own knowledge and skills in nursing practice and research. The program integrates theory and practice towards a holistic vision of nursing care. The course consists of seven programs: (1) Human Care and Nursing Skills Course (2) Nursing Administration Course (3) Community and Public Health Nursing Course (4) Child Health and Maternal Nursing Course (5) Adult Health Nursing Course (6) Gerontological Nursing Course (7) Gerontological Certified Nurse Specialist Course.

Doctoral Course Medical Science:

There is strong demand to train world-class medical researchers and skilled clinicians with research ability. Therefore, we offer a choice of four courses as a basic organization policy.

1. Medical Research Course

The purpose of this course is to instruct researchers on how to investigate basic and clinical medical science as well as biological science. We aim to develop human resources who can show leadership in research and education fields with enough knowledge and advanced research capacity to show creative and self-reliance in a specialized field of medicine. The subjects of the research are: (1) mechanisms, diagnoses and treatments of abnormal responses caused by intrinsic and/or extrinsic factors as well as neoplasia, (2) the physiological and pathological aging processes from prenatal development to senescence, (3) investigation of how change, both inside and outside an organism, influences the function of a creature from the respect of cell function, and its regulation and in the pathological state, (4) systematical understanding of the functional view of human illness and (5) consideration on the prevention and/or treatment of the illness. Furthermore, some postgraduate students work to: (1) investigate dynamic biological responses in organisms reacting to various kinds of intrinsic and/or extrinsic factors exerting biological functions in vivo through systematic analyses at the molecular, cellular, individual, and social levels and (2) comprehensively consider the mechanisms and underlying such biological responses.

2. Medical Oncologist Training Course

This course is designed to train participants to become a physician or other medical staff with knowledge and skills necessary for diagnosing, treating, and studying cancer. The

course covers all aspects of cancer treatment required to pass the examination in order to be certified as a specialist in cancer drug therapy, therapeutic and diagnostic radiology, pathology, pharmacology, psychiatry, and palliative care. A remote classroom system is used in the graduate school and participating universities to acquire the credits necessary for the masters program and then after receiving fundamental education in cancer treatment. A university certificate will be awarded to participants upon completion of the course.

3. Medical Specialist Training Course

This course provides advanced clinical training in each special medical field and enough research experience to take the Medical Specialist examination of each association. In addition to gaining clinical and research experience, fellows have the opportunity to pursue a doctoral degree.

4. Course for Community Healthcare Leader

The aim of this course is to bring up community healthcare leaders through research, which is concerned with cohort studies of lifestyle-related diseases, arteriosclerosis related to ageing, dementia, and epidemiology, in addition to training at medical and educational institutions. The students will acquire the leadership skills and research capabilities necessary for fulfillment of leadership duties in the field of community healthcare.

Nursing Science:

A major in the nursing science doctoral course independently provides high level and creative nursing research to build "Nursing Science in a Super-Aged Society." The goal is to train the research educator who can help people enjoy a rich quality of life through improved nursing care.



Interdisciplinary Faculty of Science and Engineering



The Interdisciplinary Faculty of Science and Engineering of Shimane University was established in October 1995, arising from reorganization of the Faculty of Science and the Faculty of Agriculture. The ultimate objective of our Faculty is to fuse and integrate the discipline of science and the analysis of natural phenomena to develop fundamental ideas in the form of scientific truths, with the discipline of engineering responsible for developing technologies that enable the design and production of objects and systems for specific purposes. The Faculty features an interdisciplinary education and research system that spans many topics ranging from fundamental science to engineering, providing solutions to the problems

of society today. These features combine to form an educational and research system unique in Japan. The Faculty consists of five departments: Material Science; Geoscience; Mathematics and Computer Science; Mechanical, Electrical and Electronic Engineering, and Architecture and Production Design Engineering. Approximately 400 undergraduate students enter in each school year.

The Faculty aims at providing students with the “fundamental sense and application capability” required to cope with the advanced and ever-changing developments in science and technology in the 21st century. After graduation, approximately 40% of our students enter higher graduate courses. Graduates also find employment in a wide variety of companies and government agencies.

International Admission Policy

We accept international students with academic vision in the interdisciplinary field of science and engineering, and also with strong desire toward developing new science and technology, promoting international academic exchange, and enhancing sustainable development of the human world. We provide advanced lectures, seminars, and research work for students in their specialized fields. The aims of the educational program of this faculty are to cultivate creative students who are capable of understanding scientific knowledge and technology based on both general and specialized education, and to encourage students so that they can have an international view of their specialized fields.

URL:<http://shimane-riko.jp/eng/>

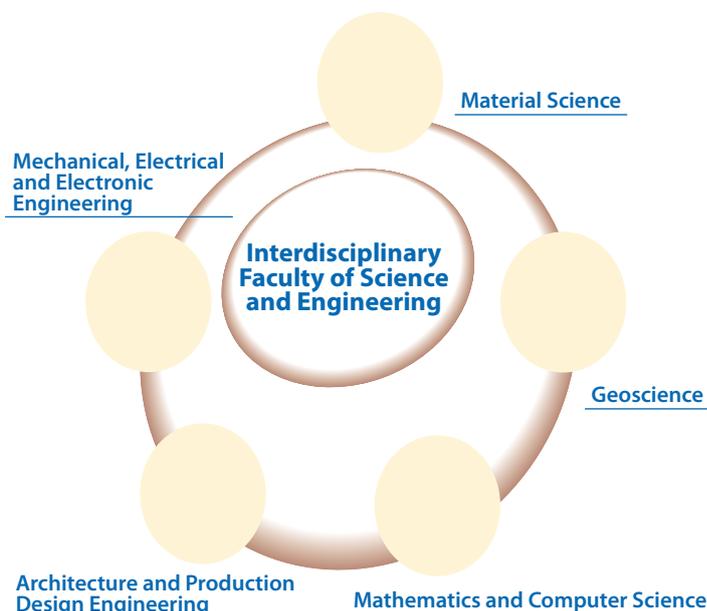


Message from Dean

Professor Ichiro HIROMITSU

“Interdisciplinary” is the keyword to explain the scope of our Faculty. We provide an education not only covering a wide range of disciplines in science and engineering but also cultivating an ability to integrate different disciplines and produce something totally new. Many students from various countries have studied in our Faculty or our Graduate School under the direction of our excellent teaching staff. After the graduation, they are now working in many places in the world as the front-runners in science and engineering.

Our university locates at Shimane prefecture which is a region that had an ancient dynasty, an origin of Japanese myths. This region is also rich in Nature with many places for sightseeing. Will you open up new science and engineering with us in this beautiful Shimane?



•Department of Material Science Physics

Physics for Science and Engineering invites prospective students with vigorous academic interest in pure and applied physics and materials sciences, or in the interrelations of these disciplines.

Courses for freshmen and sophomores are carefully organized to provide the fundamental knowledge and skills required for future scientists and engineers, including analysis, mechanics, electromagnetism, and material physics, as well as exercises and experimentation. Wide choices of advanced lectures in contemporary physics and materials sciences subfields are available to juniors. Seniors are given research opportunities at the very frontier of individual disciplines, as fields as diverse as super- and semi-conductors, functional materials, and strongly correlated electronic systems, through to quantum, computational, and mathematical physics. Active interaction with our faculty of 21 acknowledged researchers and direct supervision lead to the awarding of Bachelor's degrees upon completion of theses.

On enrollment each student is assigned a faculty member as his/her tutor, who provides guidance and support throughout their campus years. Special assistance is provided to students from overseas.

Chemistry



Chemistry provides two educational courses designated as Chemical and Material Engineering and Chemical Science Program. The former is offered to students specializing in engineering and applied chemistry, whereas the latter is for students who wish to undertake broad studies in chemistry

to expand their knowledge and skills in the science. Both courses arrange lectures spanning a wide range of chemistry for their educational purposes.

Students enrolled in Chemistry choose one of the two educational courses at the beginning of the second year. In their third and final year, students execute their own research study under the guidance of professors who are acknowledged researchers. Our academic staff consisting of 16 professors is divided into 12 laboratories (inorganic chemistry 1 & 2, organic chemistry 1 & 2, functional molecular chemistry, catalytic chemistry, polymer chemistry, ceramic materials, physical chemistry 1 & 2, environmental analytical chemistry, and inorganic materials chemistry 1 & 2) according to their specialized research fields. This allows our students to efficiently carry out the research work required to complete their educational course and to graduate.

URL:

◆ Physics URL: <http://www.phys.shimane-u.ac.jp/>

◆ Chemistry URL: <http://www.chem.shimane-u.ac.jp/>

•Department of Geoscience Geoscience

Environmental Geology

Natural Hazard Engineering

Research and education in the Department of Geoscience is based on geology and some aspects of engineering geology. The aims of the department are: (1) to encourage systematic understanding of earth materials and resources, (2) to promote better understanding of the mutual relationships among humanity, living things, and the earth from geological viewpoints, and (3) to establish effective prevention engineering against natural hazards based on a wide knowledge of geological processes and environmental changes.



Our education programs are aimed at producing high-level scientists and engineers in the earth sciences and related fields. Field work and practical skills are important components of our undergraduate courses.

◆ URL: <http://www.geo.shimane-u.ac.jp/e/index.html>

Interdisciplinary Faculty of Science and Engineering

•Department of Mathematics and Computer Science

Pure Mathematics

Mathematical Analysis

Applied Informatics

Computer Science



The Department of Mathematics was formed when Shimane University was founded in 1949. The Department of Information Science was established in 1989. After several reorganizations, our department reached its present state by integrating these two departments in 1995.



Mathematics is an indispensable part of a wide range of human activities. Traditionally, Japanese counted it as one of the three basic elements for primary education: “reading”, “writing” and “computing”. Advanced mathematics seeks beauty in numbers and figures, and also provides tools and language to analyze and describe various natural and social phenomena.

Information and computer science/engineering support the basis of IT society. Nowadays, IT enables us to communicate easily with people far away, and to send and receive information immediately across the world. Information and computer science/engineering are thus indispensable parts

of a wide range of human activities.

The aim of the department is to provide our students with the knowledge and skills of mathematics, statistics, computer science, and information technology demanded by today’s rapidly developing high-tech society. The education program consists of four majors: Pure Mathematics, Mathematical Analysis, Applied Informatics and Computer Science. The major of Pure Mathematics includes algebra, topology, and differential geometry. Mathematical Analysis includes differential equations, real and complex analysis, applied mathematics, and statistics. The majors of Applied Informatics and Computer Science include basic theories of computer science/engineering, programming languages, numerical methods, software engineering, databases, multimedia engineering and scientific visualization, along with practical exercises.

◆Mathematics URL: <http://www.math.shimane-u.ac.jp/>

◆Computer Science URL:<http://www.cis.shimane-u.ac.jp/>

•Department of Mechanical, Electrical and Electronic Engineering Control Systems Engineering

Instrumentation Systems Engineering

Electrical and Electronic Systems Engineering

Electronic Devices Engineering



The department offers education and research related to the areas of mechanical engineering, electrical engineering, and electronic engineering. Students study a wide range of basic theories related to the areas of this department during their first two years. They then select one of three undergraduate courses:

A : Control systems and engineering mechanics,

B : Power, communication and instrumentation engineering,

C : Electronic devices and solid-state physics.

These courses include a sub-curriculum related to computer literacy and programming, utilizing a comprehensive computer system for educational purposes.

The department aims to produce graduates who have prepared for professional engineering practice in either mechanical, electrical, or electronic engineering, and with fundamental knowledge in all three fields.

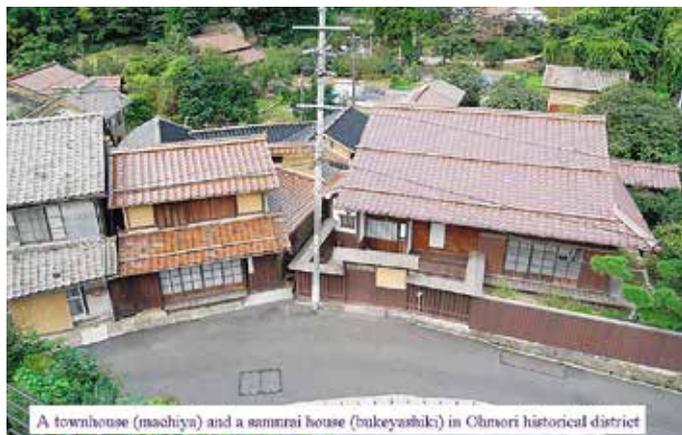
◆URL: <http://www.ecs.shimane-u.ac.jp/>

•Department of Architecture and Production Design Engineering
Material science

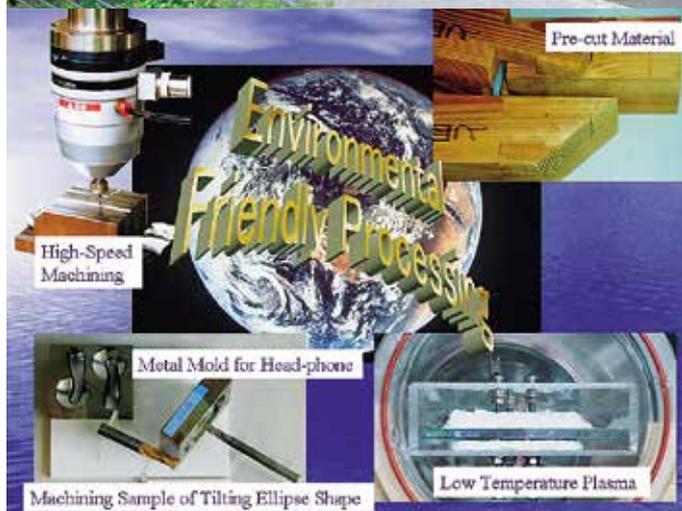
Architecture

Mechanical engineering

The department provides many lectures about the above-mentioned three fields. The department consists of two majors: Wood Science and Architecture, and Mechanical Processing and Recycling.



A townhouse (machiya) and a samurai house (bukeiyashiki) in Ohnori historical district



Three courses are offered in Wood Science and Architecture: Architecture, Wood Science and Technology, and Amenity Materials Technologies. Three courses are offered in Mechanical Processing and Recycling: Eco-material Engineering, Mechanical Machining, and Recycling Natural Resources.

•Graduate Course in Earth Science and Geoenvironmental Science
•Special Program for International Students

The graduate program accepts students of excellence from all over the world, especially from Asia and the Pacific Rim regions. Japanese students can also be accepted into the program.

Research and education in the graduate program is based on geology and earth science, to solve worldwide problems and to enhance sustainable human development. The aims of the graduate program are to encourage a systematic understanding of earth materials and earth resources; to promote better understanding of the mutual relationships among humanity, living things, and the earth from historical and geoenvironmental viewpoints; and to establish effective prevention engineering against natural hazards and disasters, based on a wide knowledge of geological processes and environmental changes.

The graduate program is aimed at producing international level researchers and technical specialists in the earth sciences, geoenvironmental science, and related fields.

For international students the academic year begins in October and ends in September, whereas for Japanese students the year starts in April and ends in March. The terms of the M.Sc. and doctoral courses programs are two years and three years, respectively. Early graduation (after one year or one and half years for the M.Sc course, and one to two and half years for the doctoral course) is available for exceptional students should they complete the requirements for their course ahead of time.

•Collaborative Educational Course in Science, Engineering, and Medicine

This is a multidisciplinary course in the graduate school offered jointly with the Graduate School of Medical Research. The course is designed for students with backgrounds in science and engineering, and who have an interest in medical applications of physics, chemistry, biology, mathematics, and informatics. Some of the current research opportunities include:

- »»Synthesis of nanoscale photo-diagnostic or photo-therapeutic agents for cancer
- »»Development of biomedical imaging technology for cells, tissues and organs
- »»Mathematical and informatical analysis of the development of tissues and organs
- »»Usage of biomaterials for orthopedic implantation

Graduates will be the front-runners of new medical technology and improved medical care, working in industry and academia.

The future of medical care will be determined by you !

Faculty of Life and Environmental Science



The Faculty of Life and Environmental Science was established in October of 1995 by reorganizing the Faculty of Agriculture and the Department of Biology in the Faculty of Science. The Faculty consists of four departments: Biological Science, Life Science and Biotechnology, Agricultural and Forest Sciences, and Regional Environmental Sciences. The Marine Biological Station, University Farms, and University Forests were attached to the Faculty as the Education and Research Center for Biological Resources.

The Faculty's objectives are: (1) to understand the mechanism of biological systems, (2) to develop new technologies including biotechnology, environmental preservation and reclamation, and sustainable production systems, (3) to apply scientific results and technologies in agriculture, forestry, fishery and other bioindustry fields, and, (4) to make contributions to local communities.

The undergraduate program offers a comprehensive curriculum that combines lectures, laboratory and field work, and small-group instruction. Laboratory and field works help undergraduates deepen their understanding of the related lectures. Small-group classes improve mutual understanding between students and faculties. Graduates from our faculty find employment in private companies, enter the civil service, or become high school science or agriculture teachers. Students who want to continue their research enter Master courses in the Graduate School of Life and Environmental Science.

International Admission Policy

Our faculty seeks students who are interested in subjects including biology, life science, biotechnology, agriculture, agricultural economics, ecology, environmental science, and agricultural engineering. We are committed to providing high quality and professional education and research opportunities to students with a wide variety of backgrounds. As part of our admission standards, we give weight to students most likely to benefit from our study and research programs. We provide some specific admission criteria for international students in which programs will be conducted in English. For more information please see our web site.

URL: <http://www.life.shimane-u.ac.jp/eng/>

Department of Regional Environmental Sciences

Course of Ecology and Environmental Sciences
Course of Environmental Resources Engineering
Course of Rural Engineering

Department of Life Science and Biotechnology

Course of Life Science and Biotechnology

Department of Agricultural and Forest Sciences

Course of Agriculture
Course of Forestry
Course of Environmental Biology
Course of Rural Economics

Faculty of Life and Environmental Science

Department of Biological Science

Course of Biological Science

Graduate School of Life and Environmental Science

Biological Science and Biotechnology
Agriculture and Forest Science
Environmental Science and Technology

Education and Research Center for Biological Resources

Forest Science
Agricultural Science
Marine Biological Science



Message from Dean

Professor Kazuhito ITOH

The Faculty of Life and Environmental Science presents an attractive environment to students and researchers for studying Life from basic biology to life science, biotechnology, agriculture, forestry, ecology and environmental sciences. We provide the multidisciplinary programs from basic subjects to the latest research developments and innovations including the interdisciplinary scientific issues to develop a diverse portfolio of scientific skills to advance sustainable development and quality of life. Our programs are research-led and integrative, ensuring that our courses are at the cutting edge and that our students are prepared for the future. So far, our 4000 graduates both at home and abroad with multidisciplinary backgrounds have been well qualified for a wide variety of careers within science-based industries, academia, research and commercial sectors. The Faculty has now four departments: Biological Science, Life Science and Biotechnology, Agricultural and Forest Sciences, and Regional Environmental Sciences. In addition, Education and Research Center provides an opportunity of field-based research and education in the off-site facilities for Agricultural, Forest and Marine Biological sciences. Our mission is to inspire and transform the students by providing an innovative learning experience and Graduate School of Life and Environmental Science is open for advanced further studies. Our faculty and staff invite all students strongly motivated to study Life with us in Matsue, known as the "City of Water".

•Department of Biological Science

The major focus of education and research in the Department of Biological Science is to deepen the understanding of the fundamental mechanisms underlying various biological phenomena from molecular behaviors to population dynamics. Our educational program provides undergraduate students with opportunities to progress self-study ability, to learn current biology systematically, and to understand the essentials of life and environment.

Research areas of our current faculty members are 1)



physiology of extremophiles; 2) ecology and cell biology of protozoa; 3) symbiosis between protozoa and alga; 4) physiology and molecular biology of the plants; 5) systematic and evolutionary botany; 6) plant biotechnology; 7) theoretical ecology; 8) molecular physiology of sensory reception; 9) behavioral ecology; 10) developmental biology; 11) evolutionary genetics; 12) histology and 13) hair biology.

Among our wide-ranging curriculum, series of Biological Science Seminars are especially unique. Biological Science Seminar I and II (BSS I and II) are active learning programs for the freshmen and sophomores, respectively, and are given for five or six students by one teacher, in which students can learn biological literacy and presentation skills. BSS III provides the juniors knowledge and ethics that are required for conducting their research properly

To complete the educational program, students can write their own graduation theses in the final year, learning and acquiring various latest knowledge and state-of-the-art techniques of biological science.

URL:

- ◆ <http://www.life.shimane-u.ac.jp/eng/faculty/biological.html>(English)
- ◆ http://www.life.shimane-u.ac.jp/gakubu_annai/gaka_annai/seibutu.html(Japanese)

•Department of Life Science and Biotechnology

Students in the Department of Life Science and Biotechnology can acquire wide-ranging scientific skills, and learn the use of highly specialized technologies in life

science based on chemistry and biology. The field covers all microorganisms, plants, insects, and mammals. The courses offered are suitable for those planning to go to graduate school, as well as life science, agricultural, chemical, pharmaceutical, medical and other professional schools. Graduates at the bachelor level may also find work in the biotechnology field. Two specialized courses are available for third and fourth year students. In both, students have the opportunity to study current topics such as organic synthesis, molecular structure, nuclear magnetic resonance, gene manipulation, genetic information, tissue culture, molecular biology, cell fusion, cellular information, protein engineering, environmental biochemistry, informational molecules, microbial technology, and food science and nutrition. The courses are Applied Bioscience and Biotechnology and Biomolecular and Bioinformation.



URL:

- ◆ <http://www.life.shimane-u.ac.jp/eng/faculty/biotechnology.html>(English)
- ◆ <http://www.ipc.shimane-u.ac.jp/seimei/>(Japanese)

•Department of Agricultural and Forest Sciences

Our department consists of four educational courses: Agriculture, Forestry, Environmental Biology, and Rural Economics. Freshmen will take introductory lectures in all the four courses, and an introductory seminar and practical lesson of each major course. Through the lectures and practical exercises on basic subjects, students can learn fundamentals of this department for their specialized studies.

Course of Agriculture

Students belonging in the Agriculture course can learn agricultural science, technology, and management to improve the production and quality of cereals, legumes, vegetables, fruits, flowers, and livestock products for sustainable agriculture and human life. The Agriculture

Faculty of Life and Environmental Science

course offers optional specializations in Field Crop Science; Horticultural Science; Animal Science; and Farm Work System & Management through a combination of lectures, seminars, and practical works in genetics, breeding, biotechnology, physiology, nutrition, reproductive biology, and management.

Course of Forestry

The Forestry course provides students with the integrated forest science, which consists of a variety of studies such as ecology, biogeochemistry, soil science, wildlife, hydrology,



informatics, geoinformatics, remote sensing, economics, policy, law, engineering, silviculture, forest and woody biomass utilization, natural disaster prevention, planning and management.

Course of Environmental Biology

The Environmental Biology course provides students with lectures, field studies, and experimental practices on Entomology, Plant Pathology, and Microbial Ecology to improve their basic knowledge and interest of this study field in agriculture. Through seminars and experimental programs for the specific research field, students complete their graduation thesis and give a presentation on their results.

Course of Rural Economics

Since rural areas play a crucial role in providing not only food security but also non-tradable public goods, studying practical solutions to address policy issues faced by rural communities and people is of utmost importance. The Rural Economics course offers a wide range of subjects such as farm management, marketing of farm products, and the development of rural communities.

URL:

◆<http://www.norin.shimane-u.ac.jp/>

◆Department of Regional Environmental Sciences

The department aspires to be a premier regional environmental science program that addresses the science, education, and management of regional environments. We

especially focus on regional resources such as water, soil, and aquatic organisms in order to achieve a sustainable society with an environmentally sound resource cycle. Our students can obtain the knowledge and skills to evaluate, conserve, and manage regional resources through classroom lectures, laboratory work, and field work in and around Lakes Shinji and Nakaumi, which are representative of the rich and varied nature in Japan. In order to deepen the student's academic expertise, the department has set up three educational courses of study: Ecology and Environmental Sciences, Environmental Resources Engineering, and Rural Engineering.

URL:

◆<http://www.region-environ.shimane-u.ac.jp/>

◆Education and Research Center for Biological Resources

Forests, agricultural land, and marine areas construct a natural landscape for human life which supplies diverse and rich biological products to us. The Education and Research



Center for Biological Resources consists of three sections: Forest Science, Agricultural Science and Marine Biological Science.

Forest Science has experimental forests, Agricultural Science has experimental farms, and Marine Biological Science has a marine research center. Each section provides typical educational lectures and research activities to the faculty students with the help of fully skilled and technical staff. The center has a policy to contribute to science and social education from the view point that forests, agricultural land and marines are an integrated system.

The center offers several lectures about the interface between human activity and natural environments, and also about the biological connection between forests, agricultural land, and marine areas. The lectures are open to students from every course. The center contributes to the understanding of natural life and landscapes through experience and activity in the field sites.

URL:

◆[http://www.life.shimane-u.ac.jp/eng/faculty/center.html\(English\)](http://www.life.shimane-u.ac.jp/eng/faculty/center.html(English))

◆ <http://ufsu.life.shimane-u.ac.jp/~ercbr/> (Japanese)

◆ **Graduate School of Life and Environmental Science**

The Division of Life and Environmental Science was established in April 2000, and reorganized in 2008. The division consists of three courses: Biological Science



and Biotechnology, Agriculture and Forest Science, and Environmental Science and Technology. Students must take four semesters to complete a course which begins in April or October. Each student chooses one of three academic programs depending on his/her future plan: the researcher-oriented program, professional-oriented program, or local industrialist-oriented program. The Master's degree in Life and Environmental Science is awarded to those who have earned enough credits and have submitted an approved dissertation in the fourth semester.

URL:

◆ <http://www.life.shimane-u.ac.jp/eng/mastercourse/> (English)

◆ <http://www.life.shimane-u.ac.jp/daigakuin/> (Japanese)

Course of Biological Science and Biotechnology

In the Course of Biological Science and Biotechnology, education and research are undertaken, aiming not only at a full understanding of biological phenomena but also at applying it to human society. Living organisms are studied with conventional as well as the latest technologies at various levels from molecules, cells, tissues, and individuals to entire populations. The educational programs cover a wide range of specialty fields, such as morphogenesis, structural cell biology, biodiversity, applied plant genomics, molecular and cellular controlling systems, biomolecular signaling, microbiology, and biomolecular structure-function. In this course, students are effectively educated to be researchers and educators in biological sciences and develop practical skills for various life science-related areas of business, (e.g. those managing and assessing natural resources).

Course of Agriculture and Forest Science

The Agriculture and Forest Science course consists of

four fields: agricultural production, plant pathology, forest environmental science and agriculture and resource management.

We provide an extensive educational program with coursework in farm and forest resource use, regional management in cooperation with technological development in the farm management, and distribution of agricultural products.

Our aim of education is the realization of sustainable human life, appropriate systems of bio-production, activation of agriculture, stockbreeding and forestry through improving the technology, and development of methods to use the multiple functions of farm and forest.

Our students acquire profound knowledge in specialized technologies in agriculture, animal science, fishery, forest science, forestry and social science, and plant disease control. We aim to train specialists, researchers, teachers and employers with entrepreneurial spirits to create the future of the agricultural and timber industries.

Course of Environmental Science and Technology

In the Environmental Science and Technology course, we aim to produce "professionals on environmental issues" who contribute to fields of research, industry, education, and culture concerning "Environmental Resources" to realize a sustainable and affluent society in the 21st century. The term "Environmental Resources" includes the fields of water, air, soil, organisms, energy, facilities, institutions, and information. We bring up highly trained students who understand key issues and can wisely manage and use environmental resources. The students admitted to our course are required to have the spirit of inquiry, and will cultivate their research abilities, analyzing and settling various environmental issues that we face. The Environmental Science and Technology course integrates the three following educational and research fields: Environmental Bioscience, Environmental Resource Engineering, and Regional Environmental Restoration. Students will not only deepen their specialties but also learn the various types of approaches to cope with environmental issues using the knowledge and techniques of basic and applied sciences. Our graduates have many career opportunities, including researching environmental resources, teaching environmental education, becoming highly educated technicians familiar with the ecological environment, becoming administrative officers who can foresee environmental issues and technologies in the future, and leading regional activism with eco-friendly manners.

Shimane University Hospital

Shimane University Hospital

The University Hospital was established in 1979, and remodeled in 2011. The basic principle of our hospital is “Harmonization of rural medicine and highly advanced medicine.”

Establishing “Department of Acute Care Surgery” and “Advanced Trauma Center”

Preventable Trauma Death is a serious problem in emergency medical care. Preventable Trauma Disability also affects many people. Especially in Shimane Prefecture, adequate traumatic treatment is not available to seriously injured patients. According to a report by the Ministry of Health, Labour and Welfare, the accident death rate in Shimane Prefecture (in 2013, per 100,000 people of population) is the 7th worst in Japan. Unexpected accidents are obviously different area by area (Figure 1). This chart shows the situation of traumatic emergency care in Japan. It is well-known that the number of traffic accidents in Shimane Prefecture is small, but the death rate per accident is quadruple the average in Japan. Preventable Trauma Death caused by traffic accident in Shimane Prefecture may occur frequently, so it is necessary to have a traumatic emergency center to serve the whole prefecture.

In 2016, we established the “Department of Acute Care Surgery” in the Faculty of Medicine which integrated three divisions: Traumatic Surgery, Emergency Surgery, Surgical Critical Care. These three divisions were combined for the first time in Japan, and a “Advanced Trauma Center” also started in 2016. In 2017, a facility which will have a Hybrid Emergency Room (Hybrid ER) able to do first aid early stage treatment, urgent CT, resuscitative surgery and urgent angiography (+IVR) at the same time is going to be built next to the Emergency and Critical Care Center. Then, the “Advanced Trauma Center” will work at maximum capacity. The “Advanced Trauma Center” will be effective to allow young surgeons and emergency physicians to become educated in trauma emergency medicine and high-level trauma treatment. Moreover, we expect a decrease of Preventable Trauma Death caused by development of trauma emergency medicine level (Figure 2). In particular, students will learn the basics of the trauma treatment and gain much valuable experience before graduating. We hope many more students will want to become trauma emergency doctors in our prefecture and around Japan, which will lead to the medical improvement of trauma emergency medicine in Japan.



Hospital building



Figure 1

Information

Location / Enyacho Izumo Shimane
URL / <http://www.med.shimane-u.ac.jp/hospital/index.html>



Message from director, Mikio IGAWA

The Shimane University Hospital provides high-quality, patient-centered care. This leads to the best outcomes and patient satisfaction. In addition to traditional health care programs, we offer a primary care track beneficial to a future primary care physician. I look forward to having you join our community here at the Shimane University Hospital.

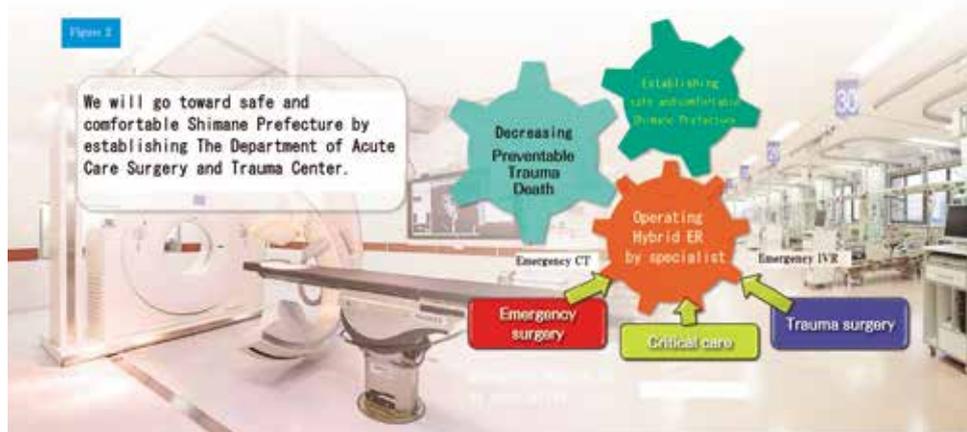


Figure 2

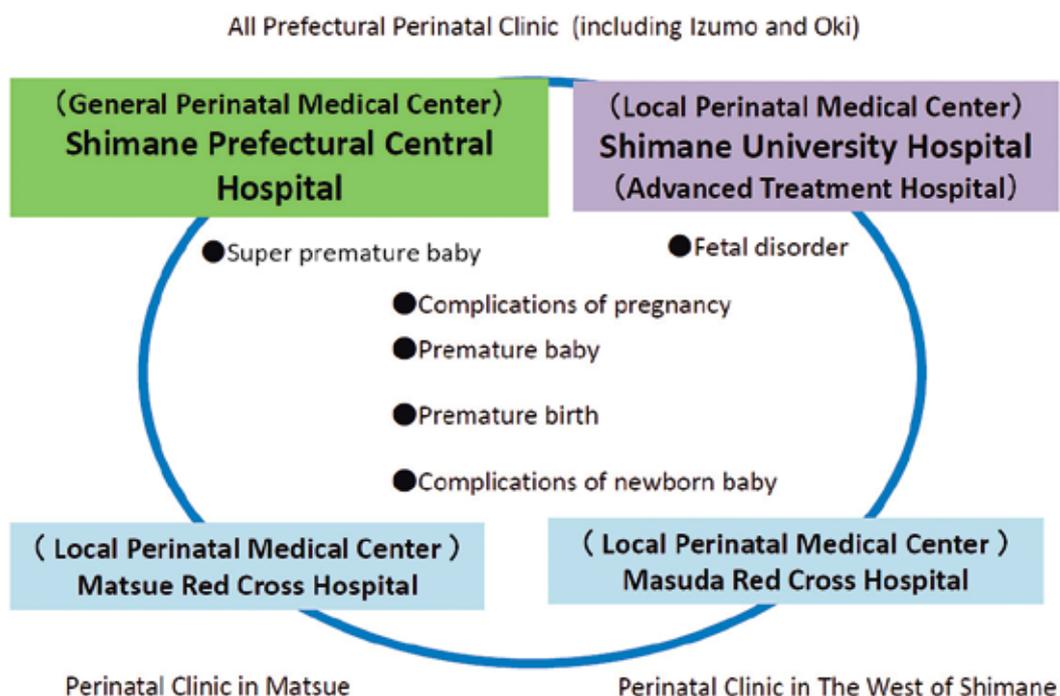
Shimane University Hospital was chosen to be a local perinatal medical center

Our hospital has been making efforts for enriching perinatal care in Shimane Prefecture with a mission to treat patients who need high-degree care (complications of pregnancy, fetal disorder, etc.) at an advanced treatment hospital.

On the other hand, there was division of roles for premature births and premature babies cared for by Shimane Prefectural Central Hospital as a general perinatal medical center and Matsue Red Cross Hospital and Masuda Red Cross Hospital as local perinatal medical center.

However, Shimane University Hospital sometimes could not receive high-risk infants or pregnant women because the number of patients increased dramatically after starting pediatric surgery and pediatric heart surgery in 2013. Therefore, we are planning to establish a 12-bed GCU as well as continue our NICU in a new location.

As a result, our hospital was chosen to be a local perinatal medical center by Shimane Prefecture in October 2015. We want to provide treatment for high-risk pregnant women and fetal disorders who need intensive care, and we will continue cooperating with other perinatal centers.



Attached Facilities and Institutions



Main Library (Matsue)

University Library – Main Library in Matsue and Medical Library in Izumo

Shimane University Library, holding approximately 940,000 books, serves as the center of study, research and various other academic activities.

Its enriched digital library function, such as “Electronic Resource's Pages” provides easy access to 15,000 titles of multilingual online journals and a wide variety of databases on a 24-hour basis.

Information literacy education is promoted by holding seminars and setting up Portal Menu on the library website for efficient use of increasing number of digital materials.

The library also puts its focus on local historic materials by preserving and providing them in digital archive style. Exhibitions and lectures are regularly held and several books have been issued by the library as achievement of these activities.

As other features, student supporters called “Library Concierge” have been engaged in library service at Main Library for years, and Medical Library is promoting the regional library cooperation to support regional medical service by connecting 22 local medical libraries and hospital reference libraries.

Information

Open hours

Main Library / 8:30am-9:30pm

Medical Library / 24 hours

URL:<http://www.lib.shimane-u.ac.jp/> (Japanese)



Message from director, Jitsuro SUGIE

The University Library is an essential partner in intellectual discovery, creation and empowerment. We are dedicated to distribution of high quality service and intellectual support for learning, teaching, research and other activities to all of our users. Join us !



Medical Library (Izumo)



Center for Foreign Language Education

The Center for Foreign Language Education plays a major role in the promotion of foreign language education at Shimane University, providing various foreign language programs in English as well as German, French, Chinese, and Korean. In response to the needs to foster those who can participate actively in global society, we started the “Special English Minor Program for Advanced Students” in 2013 and also started the “Practical Chinese Program” in April, 2015.

The Work Station of the Center is always full of students who study and prepare for classes or enjoy watching foreign movies. Teachers and staff members at the Work Station positively support the students by answering questions and giving guidance for those who would like to study abroad.

Information

Open hours

Work Station / 8:30am-6:00pm

URL:<http://cfl.shimane-u.ac.jp/en>



Message from director, Koza HIROSE

English is now a common language in our global society and is spoken not only in the English-speaking world but also in Asian countries. However, other foreign languages such as German, French, Chinese, and Korean are also important. Learning a foreign language does not simply mean acquiring skills in the language but ultimately leads to knowing other people and other cultures through the language. During your university career, please take one of the many opportunities to visit a foreign country and interact with many people there. The Center for Foreign Language Education is always on your side to support and help you.





International Joint Research Institute of Shimane University and Ningxia University

In 1987, Professor Izumi Kitagawa, Faculty of Agriculture at Shimane University, visited the Ningxia Hui Autonomous Region for the first time as a foreign researcher to conduct collaborative research on rural development. This collaborative research led to the creation of an academic relationship between Shimane University and Ningxia University.



At the 10th anniversary of this relationship, the two universities contracted an academic exchange agreement. In 2005, a research institute building was established at the Ningxia University campus to promote our research activities and was supported by JICA. It is unique Japanese-Chinese joint research institute located in the western region of China.

To strengthen our partnership, much time and effort has been dedicated by the staff of the institute. Studies on rural development, ecology and comparative studies on less-favored areas in both of Japan and China, and agricultural production systems are being conducted as the joint research projects are aiming to be a center for regional research in western China. Moreover, the joint research institute library, which holds around 3,000 Japanese books, was established in October 2013.

Information

Location / Yinchuan, Ningxia, China
Open hours / 9:00am-5:00pm
URL:<http://www.ningxia.shimane-u.ac.jp> (Japanese)



Message from Director, Katsuhisa ITO

The roles of our institute are to provide feedback based on the results from the joint research concerning the local problems, to analyze and spread information, and to achieve a greater human capacity towards the development of the local region, not only the Ningxia Autonomous District but also western China through the Western China Academic Network.

To promote our joint research and train young researchers, annual interdisciplinary international seminars have been held since 2002; also, an academic network for studying in western China is being planned with the participating Northwest A & F University (Xi'an).

In 2014, we celebrated the 10th anniversary of the establishment of the International Joint Research Institute of Shimane University and Ningxia University by inviting many guests to Shimane University. We launched the next period of collaboration to enhance the sphere of joint research and to contribute to the appropriate development of rural areas and human welfare in both countries.



The Center for International Exchanges

For the purpose of fostering human resources in global society, we face to the need to promote understanding and friendly relations with foreign countries and keep stable international exchanges with academic institutions. Based on the spirit of Shimane University's Charter, we are committed to provide the opportunities of going abroad and world-class education incorporating with foreign partner universities and local communities in the following manner.

- (1) Making strategic networks with universities advanced in the fields of education and research valuable to Shimane University
- (2) Increasing the number of researchers and students studying abroad
- (3) Enforcement of support system for foreign researchers and students

Information

Open hours / 8:30am-5:15pm
URL:<http://kokusai.shimane-u.ac.jp/english/>



Message from Director, Akira DEGUCHI

Our major mission is to promote the academic exchanges in cooperative research and human resource development with partner universities and other higher educational institutions overseas based on our university's charter. Providing the opportunities to broaden the mind of international and Japanese students through academic international exchanges, we help them design their global carrier in their own fields. Let's speak out your future dream!



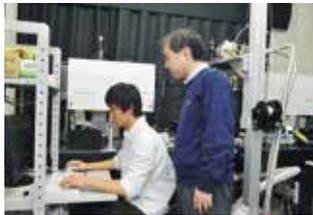
Attached Facilities and Institutions

Center for the Promotion of Project Research

Center for the Promotion of Project Research aims to make full use of Shimane University's intellectual assets and human resources to promote unique, global and creative researches intensively and strategically, and also to give back their fruits widely to our community.

Research projects which are treated as holistic priority ones are placed among the sections of Strategic research, Exploratory research, Special research or Project centers in this Center for the Promotion of Project Research, to be handled intensively with strict deadline and the purpose.

The Project center is identified as the research center joining in characteristic educational and cross-sectional research projects, and it aims further activation and promotion.



Information

URL:<http://www.proken.shimane-u.ac.jp/> (Japanese)

Student Center

The Student Center supports the learning of all students on campus. When you have any questions about your credits or classes, your degree, or other academic problems, this is the place to go.

There are many staff members to answer your questions. Please come to see us any time.



Information

Open hours / 8:15am-6:15pm

Estuary Research Center (EsReC)

The Research Center for Coastal Lagoon Environments (ReCCLE) was founded in 1992 to provide a venue for a research community that is interested in brackish water environments. ReCCLE has promoted environmental and interdisciplinary research on brackish water environments, and has provided research-based learning, practical skills and field training at both undergraduate and graduate levels in Lake Nakaumi and Lake Shinjiko, representing Japan's largest estuaries. ReCCLE is renamed as Estuary Research Center (EsReC) from April 2017, and reorganized into three divisions: Environmental Change Research Division, Environmental Fluid Dynamics Research Division, and Aquatic Ecology Research Division. EsReC continues activities of ReCCLE, and is promoting basic and applied sciences on estuaries and coasts including their watersheds towards sustainable estuaries through better understanding of estuaries.



Information

URL:<http://www.kisuiiki.jp> (Japanese)

Student Support Center

The Student Support Center supports the lives of all students on campus. We are always ready to put well-organized resources into practical use.

The center also provides consultation for finding employment.



Information

Open hours / 8:15am-6:15pm

URL:<http://gakushien.shimane-u.ac.jp> (Japanese)

URL:<http://career.shimane-u.ac.jp> (Career Center & Job information)(Japanese)

University Museum

The MUSEUM of Shimane University was established and opened to the public on April 1, 2006.

The excavated remains from archaeological sites on the university campuses (Matsue and Izumo) are exhibited in the MUSEUM. Specimens of remains were collected to study prehistoric culture.

In addition, specimens such as "Oki horse", "Japanese sealion", sturgeon, trees, and fossils are exhibited and featured as lecture topics.

Information

Open hours / 9:00am-4:30pm

URL:<http://museum.shimane-u.ac.jp/> (Japanese)



Interdisciplinary Center for Science Research

Interdisciplinary Center for Science Research aims to assist the development and progress of the scientific research of the university's staff members and students, as well as to carry out research projects in its own four departments. Contributions to improve and develop an excellent higher education are also expected. The Department of Molecular and Functional Genomics and its Radioisotope Laboratory and the Department of Materials Analysis are located on the Matsue Campus. The former specializes in genomic studies, including recombinant DNA experiments, in the field of biology and agriculture, and the latter in instrumental analysis and methodology in the field of basic and applied science of materials. Laboratories in the Department of Biosignaling and Radioisotope Experiments and in the Department of Experimental Animals are located on the Izumo



campus, and specialize in biomedical research. The former is composed of a photo center, a radioisotope laboratory and four analytical sections: structural, cellular, molecular and genetics analysis. The latter provides an excellent facility for animal experimentation.

Information

Open hours / 8:30am-5:30pm weekdays and 24 hours everyday for registered persons.

URL:<http://www.ipc.shimane-u.ac.jp/~icsr> (Japanese)

Center for Community Innovation (CCI)

Regions in Japan have been facing many serious problems such as unbalance of age structure of populations, disturbance of environment, shrinkage of industry and economy, and diminish of medical supports. To understand and solve these problems, CCI provides our students problem/project-based learning programs and valuable opportunities to collaborate with specialists in the local communities. CCI promotes cooperative relationships among various stakeholders in San-in region, encompassing Shimane and Tottori prefectures, and makes our students develop their innovative abilities.



Regional problem-based learning programs in Un-nan.

Information

Open hours / 9:00am-6:00pm

URL:<http://www.coc.shimane-u.ac.jp/> (Japanese)

Health Service Center

The Health Service Center, with its well-qualified staff, takes care of the physical and mental welfare of both students and faculty members. We are always here to support your daily life in addition to helping when you are injured or sick. In order to continue your research or study career, we provide health advice and health checkups if you want. Please feel free to visit our center when you need our help.

Information

Open hours / Monday through Friday 9:00am-5:30pm

URL:<http://www.ipc.shimane-u.ac.jp/~health/> (Japanese)

General Information Processing Center

General Information Processing Center aims to support students and staff through adjustment, maintenance and management of the campus information infrastructure, such as computers and information networks necessary to education and research.

"The Practical Developmental System Laboratory" was established for enhancing the educational research system within the Center, which provides a place for research education practice. With this classes concerned with information technology continue to be offered.

The Center has been working to strengthen the function of dispersing scientific information about Shimane University.



Information

Open hours/ Monday through Friday 8:15am-9:30pm and Saturday 10:00am-5:30pm

URL:<http://www.ipc.shimane-u.ac.jp/> (Japanese)

Collaboration Center

The Collaboration Center has been playing a chief role in the collaborative activities at Shimane University. The activities include facilitating cooperative research projects with industrial sectors and the government, providing counseling services on science and technology related matters, and holding educational seminars and workshops on Management of Technology (MOT) and regional promotion. The Center consists of four divisions: (1) the Cooperative Research Division (Regional Industry), (2) the Cooperative Research Division (Health and Medical), (3) the Research Project and Planning Division, (4) the Intellectual Properties Division. The Center has facilities in the Matsue and Izumo areas. The Matsue Center is located in the adjacent Technology Park (Techno-Arc Shimane), whereas the Izumo Center is located on the Izumo campus, which focuses on health and medical matters.



Information

URL:<http://www.crc.shimane-u.ac.jp> (Japanese)

Research Seeds Information:

<http://www.crc.shimane-u.ac.jp/res-pr/home.htm> (Japanese)



The Outstanding Research Projects of Shimane University

We promote world-level research based on regional challenges

Shimane University is pushing forward with research in various academic fields, accumulating high-level results as the center of excellence in the San-in area. We place a strong priority on promoting research that flexibly meets the diversified requirements of the community.

As part of efforts to carry out our mission, we continuously implement self-inspection and self-evaluation of our educational activities and research.

In graduate schools we also place stress on pursuing characteristic research on regional challenges, and creative research of world-level quality. We are aiming to improve the succession and development of intellectual property common to humanity, and contribute to the community.

Characteristic research projects

Projects for FY2016

Research Outline	Researcher
Establishment of a cross-disciplinary hub center to develop unique medical technologies	Tatsuyuki YAMAMOTO Professor Faculty of Life and Environmental Science
Germination of advanced earth science originating from Shimane	Atsushi KAMEI Professor Interdisciplinary Graduate School of Science and Engineering
Development of the dedicated CAM (Computer Aided Manufacturing) for the medical fraise	Yuji UCHIO Professor Faculty of Medicine
Study on Establishment of Recognition and Boundary for "Ancient-IZUMO" -Collaboration among Archaeology, Geology and History -	Takashi IWAMOTO Associate Professor Faculty of Law and Literature
Development of the integrated measurement system for the analysis of drying and hardening processes	Masayuki YOKOTA Professor Interdisciplinary Graduate School of Science and Engineering
Practical assistance activity for impaired people based on well-being information technology	Masahiko NAWATE Professor Interdisciplinary Graduate School of Science and Engineering
Ecological research on and resource utilization of Japanese eels living in brackish water in Shimane using environmental DNA	Teruhiko TAKAHARA Assistant Professor Faculty of Life and Environmental Science
Project center of Higgs and early universe	Naoyuki HABA Professor Interdisciplinary Graduate School of Science and Engineering
Development and application of functional rice that prevents muscle atrophy	Kazuhito AKAMA Professor Faculty of Life and Environmental Science
An interdisciplinary task-oriented approach to find the solution to social problems in San-in Region: Exploring and developing the support system for the poor and needy people	Kyoko MIYAMOTO Professor Faculty of Law and Literature
R&D project on novel light harvesting/coherent light generation system based on highly ordered molecular assembly space	Takuya FUJIMURA Assistant Professor Interdisciplinary Graduate School of Science and Engineering
Multidisciplinary, fundamental/clinical research project for eradicating the pancreatic and biliary tract cancer	Takeshi URANO Professor Faculty of Medicine
Establishment of an interdisciplinary research center for the investigation of community-based prevention of age-related disorders -Cultivation of health care leaders in local communities through academic networking of health care staffs in the front lines and the University-	Toru NABIKA Professor Faculty of Medicine
Interdisciplinary research project on estuary, by taking advantage of Lakes Shinji and Nakaumi in the Hii River water system as a model-field	Yasushi SEIKE Professor Research Center for Coastal Lagoon Environments (renamed to Estuary Research Center since April 2017)

Project Centers

These are research groups that take part in interdisciplinary educational research activities. Each group is a "project center", with the intention of promoting their research and activities related to it.

Ruby OSS Project Center

Director Tetsuo NODA, Professor, Faculty of Law and Literature

Theme The Estimation of the Economic Effects brought in by Open Data based on the Actual Surveillance Study

Outline Public data collected or possessed by administrative agencies and subsequently released as easy-to use Open Data are expected to bring about positive economic effects. We aim to establish an approach and methods for the estimation of the economic effects through the utilization of Open Data to estimate the positive economic effects provided by the utilization of Open Data quantitatively. The result of the surveillance study shows that the use of Open Data in local governments in Japan is still in an earlier stage and it would be difficult to produce the economic effects within these areas. But, it also shows the possibility of estimating the economic effects by the utilization of Open Data quantitatively.

Kunibiki Geo-Park Project Center

Director Toshiaki IRIZUKI, Professor, Interdisciplinary Graduate School of Science and Engineering

Theme Developing new regional resources based on the integration of arts and sciences: a case study for the Kunibiki-myth region seen from geographical and geological points of view

Outline The UNESCO Global Geopark is an official program aiming at promoting sustainable local development of the areas which are valuable from the point of geoscience through education and geo-tourism utilizing the geological heritage from the perspective of the earth, ecosystems, and humans. Our center reexamines the Kunibiki-myth world by using the idea and scheme of the geopark. The main purpose of our ongoing research, education and outreach activities is to develop new regional resources for the Kunibiki region by reevaluating it from the interdisciplinary points of view such as geoscience, ecology, history and culture.



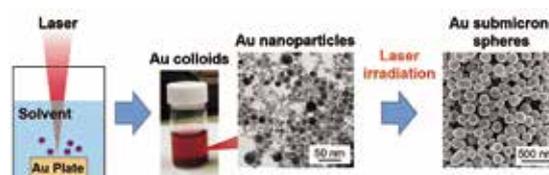
Nanotechnology Project Center

URL http://www.proken.shimane-u.ac.jp/project/pdf/nanotechprojectcenter_1.pdf

Director Yasuhisa FUJITA, Professor, Interdisciplinary Graduate School of Science and Engineering

Theme Preparation of nano-micro-sized materials using laser processes in liquids

Outline Irradiation of ultrashort (nanosecond and femtosecond) pulsed-laser on a material induces melting and evaporation of a small localized part of the material. Such a feature of laser enables us to prepare nanoparticles and modify their size by using laser irradiation on materials suspended in liquids. In our laboratory, research and development of the mechanism of laser processes in liquids are carried out.



Project Center on Natural Disaster Reduction

URL <http://pcndr-shimane-u.com/english>

Director Fawu WANG, Professor, Interdisciplinary Graduate School of Science and Engineering

Deputy Director Ikuo TASAKA, Professor, Faculty of Law and Literature

Research Division on Earthquake, Volcano and Tsunami (Head: Associate Professor Hiroki HAYASHI)

Research Division on Meteorology and Flooding (Head: Professor Ikuo TASAKA)

Research Division on Landslide and Geo-Disaster (Head: Professor Fawu WANG)

Research Division on Seismic Resistance of Buildings

Research Division on Disaster-related Laws (Head: Professor Atsunori ISOMURA)

Education Division on Disaster Reduction (Head: Professor Hiroaki ISHIGA)

Research Fellow Professors Emeritus Yoshihiro SAWADA, Masahisa HAYASHI, Shuichiro YOKOTA

Outline The main activities of the center are to study the local natural disasters including that caused by earthquake, Tsunami, volcano, flooding and landslide for the effective countermeasures to prevent and reduce the natural disasters, and to make a database for future references. At the same time, education in disaster reduction is conducted for students and local citizens, in order to foster personnel concerning to the disaster reduction. Results are published in journal articles, website, and included in the symposium for the local citizens.



The Outstanding Research Projects of Shimane University

Project Centers

Project Center for the 6th Industrialization of Agriculture, Forestry, and Fisheries

Director Toshikazu MATSUMOTO, Professor, Faculty of Life and Environmental Science

Theme Study on improving productivity of adzuki bean by utilizing symbiotic nitrogen fixation

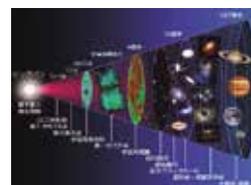
Outline Recently, adzuki bean (*Vigna angularis*), playing a major role in food culture and economic activities in Matsue and Izumo Cities, has attracted attention. However, the scale of production of adzuki bean is small, and neither the quality, yield, nor variety is good enough to attain the assured brand name. In this study, we try to enhance the productivity of adzuki bean in Shimane prefecture by improving its cultivation technique utilizing symbiotic nitrogen fixation of adzuki bean and adzuki bean-nodulating rhizobia.

Higgs and Early Universe Project Center

Director Naoyuki HABA, Professor, Interdisciplinary Graduate School of Science and Engineering

Theme Theoretical research on new theories for the Higgs field and on neutrino

Outline A newly discovered elementary particle called "Higgs", which was discovered at a large collider, LHC, in 2012, has a unique property that its vacuum condensation endows other elementary particles with mass. We are conducting a theoretical research on the mechanism for the Higgs condensation. Elementary particles like the Higgs belong to the microscopic world, but they are also connected to the structure of the entire Universe. We focus our attention on the fact that "neutrinos", the elementary particles that pass through almost all matters, are deeply related to a mystery that anti-matters scarcely exist in Nature, and are performing simulations of the neutrino-detection experiment planned in Oki Islands.



Fisheries Management Research Center

URL <https://www.fb.com/suisansigen/> (Japanese)

Director Futoshi ARANISHI, Professor, Estuary Research Center

Theme Development of fisheries management systems for sustainable production and stock enhancement of valuable fisheries resources in the San-in Region.

Outline Shimane University established Fisheries Management Research Center (FMRC) as the first institution of higher education and research of fisheries science in the National Universities along the Sea of Japan in 2014. FMRC delivers educational programs and research projects for the development, management, conservation, aquaculture and breeding of valuable fisheries resources. FMRC also promotes the practical application of research results in consideration of the characteristics of the San-in Region for sustainable fisheries production and stock enhancement in cooperation with governmental and non-governmental fisheries organizations in the San-in Region.



Wood-Design Project Center

Director Takahisa NAKAI, Associate Professor, Interdisciplinary Graduate School of Science and Engineering

Theme Repairing vacant houses in Central City of Matsue using plywood and cross-laminated timber made in Shimane

Outline The ratio of vacant house in 2014 in the northern central city of Matsue, the capital city of Shimane Prefecture, Japan, was approximately 10.5% (cf. the national average of 13.5% in 2013), and it is increasing each year. Population decrease is the main cause of the high vacancy rate, but there are other reasons which contribute to it in concert, such as the zone of employment being concentrated in urban areas, an increase in nursing home use due to longevity of the residents, and so on. Here, we propose a method for repairing and using vacant houses in Kitatamachi, Matsue, and actually try to renovate a house accordingly.

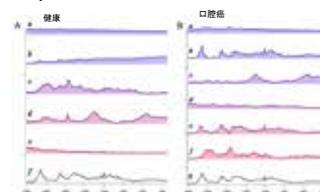


Raman Project Center for Medical and Biological Applications

Director Tatsuyuki YAMAMOTO, Professor, Faculty of Life and Environmental Science

Theme Multivariate-Curve Resolution Technique applied to Raman Spectroscopy for Biomedical Purposes

Outline Raman spectroscopy gives us the information of molecular structures and environment as they are, without need for the pre-analysis. In our Project Center, we utilize Multivariate Curve Resolution technique to decompose the measured Raman spectra into some genuine components when they are applied in the fields of medicine and biology. By using this technique, we can observe and evaluate the living tissues and cells in vivo as they are with Raman spectroscopy.



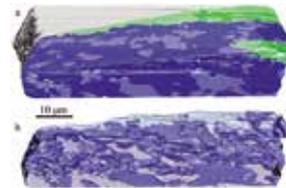
Project Centers

Tatara Nanotechnology Project Center

Director Takuya OHBA, Professor, Interdisciplinary Graduate School of Science and Engineering

Theme Study on new methods of quantitative analysis of complex microstructures in steel and iron

Outline Tatara is traditional steel making process developed in Japan. Our project aims to crystallographic research in metals. One of our recent research results are related to microstructure of steels performed by Prof. S. Morito as below. Tool and cutlery Steels, which excel in high strength and hardness, have complex microstructures composed of fine crystals. The complex microstructures enhance not only strength but also toughness. We can create steel with higher strength and toughness by controlling the microstructures. However, it is difficult to identify the microstructures because of their finesse and complexity. Now we are trying to analyze the microstructures with three dimensional observations and automatic analysis methods employing crystallographic measurements. We are also searching for the formative mechanism and structural mechanism of the microstructures to control them.



(a) Three dimensional image of martensite. (b) Blue part 'martensite' of (a) is drawn separately for understanding its distribution.

Project Center for Comprehensive Research on Congenital Anomalies

Director Hiroki OTANI, Professor, Faculty of Medicine

Theme Organ dysmorphology as results of accumulated polarity disruptions in epithelial tubular structures during organogenesis and histogenesis

Outline Malformations of organs are the abnormalities in position, shape, and/or size of the organs along the three-dimensional body axes as the results of accumulated abnormalities in various polarities at the cellular and tissue levels. In this project, we elucidate the mechanisms by which abnormalities in the polarity regulation in the epithelial tubular structures accumulate during development and result in malformations of the organs.

"SUIGANN" Project Center

Director Takeshi URANO, Professor, Faculty of Medicine

Theme Antibody drug preparation against pancreatic cancer

Outline Morbidity for the pancreatic carcinoma in Shimane Prefecture is on a high level in Japan. It is a highly lethal cancer; mortality for the disease is also high. More than 90% of patients die within 5 years of their diagnosis and 75% of patients die within the first year. The mortality rate in Shimane prefecture is above the national average. Since it is a disease whose prognosis is extremely poor compared with other cancers, development of novel treatment methods is desired. Shimane University Hospital is taking a leading part in multidisciplinary, fundamental/clinical researchers with the aim of eradicating the pancreatic cancer. We will make a number of monoclonal antibodies for early diagnosis and/or treating the disease.

Ancient Izumo Project Center

Director Yasuo OHASHI, Professor, Faculty of Law and Literature

Theme Study of Izumo Fudoki (description of the culture, climate etc. of Izumo province) and Its Acceptance, and Formation of the Image of Ancient Izumo

Outline We are pursuing a comprehensive study on the formation and development of the areal province in the process of formation of "Izumo Province" in a multifaceted way by utilizing methods of document-based historical research, archaeology, and geology. Especially we concentrate on reconstructing the image of ancient Izumo by investigating how the unit of a "local area" was formed by researching timeless historical data.

As one of the main subjects, we are making investigation and researches of local administrative offices centering around the Izumo provincial government, which was deeply related with the formation of Ancient Izumo. The local administrative system of ancient Japan is represented by the structure of areal administrative offices centering around the provincial government. We therefore try to elucidate when the provincial government was established and how its structure was.

The Center for Historical and Cultural Studies in Eastern Asia and Pacific Area

Director Hirotaka OKAMURA, Associate Professor, Center for Foreign Language Education

Theme International Joint Research on History and Traditional Culture for Community Revitalization in Eastern Asia and Pacific Area

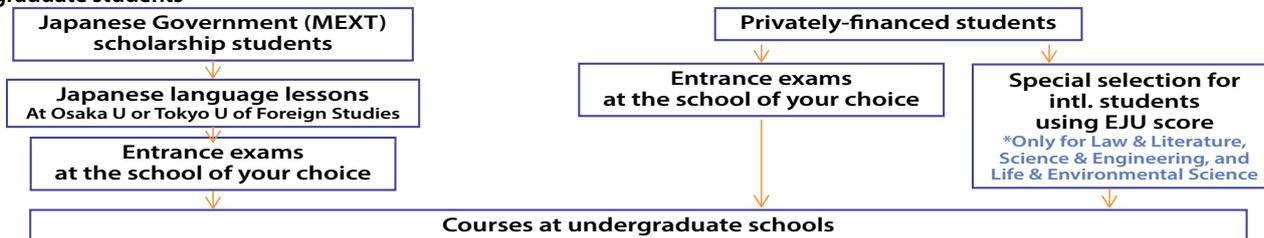
Outline A study of History of Ancient Chinese thoughts using excavated materials

The purpose of this study is to obtain a new view about the history of Ancient Chinese thoughts by analyzing excavated materials in the Warring States period, Qin period and Han period. The Guodian Chu Slips were unearthed in 1993 in Tomb No.1 of the Guodian tombs in Jingmen, Hubei Province, made public later in 1998 and they were dated to the latter half of the Warring States period. In 1994, Shanghai Museum collected the Chu bamboo Slips dating to the Warring States period. In 2007, The Yuelu Academy of Hunan University acquired bamboo Slips dating to Qin period. In 2008, Tsinghua University acquired bamboo Slips dating to the Warring States period. Further, Beijing University acquired bamboo Slips in 2009 dating to Han period and bamboo Slips in 2010 dating to Qin period. By using these numerous discoveries, the history of Ancient China is now being rewritten. Particularly we have been analyzing how the ideas around Qi 氣 (氣), which is an important idea in the Chinese philosophy, developed in the Pre-Qin period, as well as the issue of the shape and structure of the bamboo slips.

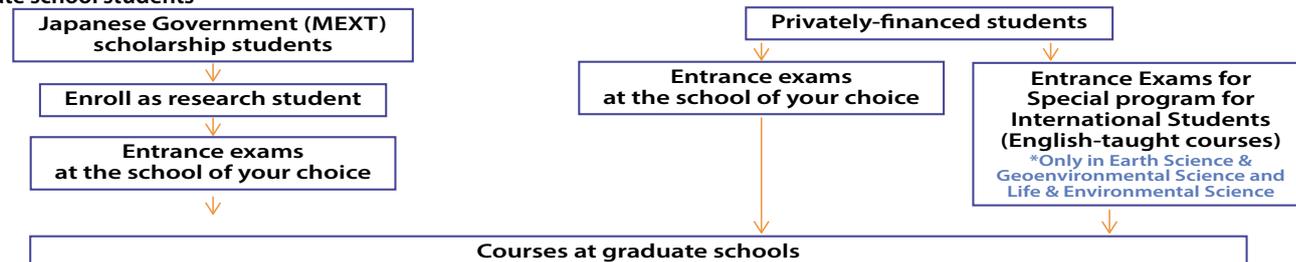
Admission Information

Degree-seeking Students

Undergraduate students



Graduate school students



Admission schedule for degree-seeking Students

Undergraduate students

Faculty	Enrollment	Application	Special Exam for Intl. students	Screening		
				Documents	Written Exams	Interview
Law and Literature	Apr.	Dec.	Available	○	-	-
Science and Engineering	Apr.	Dec.	Available	○	-	-
Life and Environmental Science	Apr.	Dec.	Available	○	-	-

Graduate school students

Graduate school	Degree	Enrollment	Application	Special Exam for Intl. students	Screening *depends on course		
					Documents	Written Exams	Interview
Humanities and Social Sciences	M	Apr.	Aug. / Jan.	Available	○	○	○
Education	M	Apr.	Aug. / Jan.	Available	○	○	○
Medical Research	M, D, MD	Apr.	Aug. – Sep. / Dec. – Jan.	-	○	○	○
Science and Engineering	M, D	Apr. / Oct.	July, Jan. / May – June	Available	○	○	○
Science and Engineering (Special Program for International Students) Course in Earth Science & Geoenvironmental Science	M, D	Oct.	June	Available	○	-	○
Life and Environmental Science	M	Apr. / Oct.	July, Jan. / May	Available	○	○	○
Life and Environmental Science (Special Program for International Students)	M	Apr. / Oct.	Dec. / June	Available	○	-	○

Admission schedule for non degree-seeking Students

Student category	Level	Enrollment	Application	Screening		
				Documents	Written Exams	Interview
Research student	Undergraduate / Graduate	Apr. / Oct.	Feb. / Aug. *Dec. / Jun. for applicants from abroad	○	-	-
Special auditing student	Undergraduate / Graduate	Apr. / Oct.	Feb. / Aug. *Dec. / Jun. for applicants from abroad	○	-	-

Other Programs

Student Category	Level	Enrollment	Availability of admission overseas	Medium of Instruction
Exchange student	Undergraduate / Graduate	Apr. / Oct.	○	Japanese/English
Teacher training student	Graduate	Apr.	○	Japanese/English
Japanese studies student	Undergraduate	Oct.	○	Japanese
ABE Initiative	Graduate	Oct.	○	English
PEACE	Graduate	Oct.	○	English

Fees, Scholarship and Housing

Refer to Guide for International Students on Page 39 - 40.

Non degree-seeking Students

Research student Undergraduate level / Graduate level

Those who wish to engage in research activities at Shimane University for the period of more than one month to one year. No credits given.

Enrollment April / October

Part-time student Undergraduate level / Graduate level

Those who wish to attend lectures to obtain credits. For the semester of two or less.

Enrollment April / October

Exchange student

Those from foreign universities that have exchange agreement with Shimane University are eligible to apply. They will be enrolled as "Special auditing students" at both undergraduate and graduate levels, or "Special research student" at graduate level.

Others

- Teacher training students (Japanese government (MEXT) scholarship students)
- Japanese studies students (Japanese government (MEXT) scholarship students)

Note) Schedule listed here based on admission information for FY2017.
Check the fixed schedule by obtaining the admission guidelines.

Availability of admission overseas	Medium of Instruction	URL / Contact
<input type="radio"/> EJU *Take exams in Japanese	Japanese	epd-nnyushi@office.shimane-u.ac.jp
<input type="radio"/> EJU *Take exams in Japanese	Japanese	epd-nnyushi@office.shimane-u.ac.jp
<input type="radio"/> EJU *Take exams in Japanese	Japanese	epd-nnyushi@office.shimane-u.ac.jp

Screening Period	Availability of admission overseas	Medium of Instruction	URL / Contact
Sep. / Feb.	-	Japanese	sad-nyushi01@office.shimane-u.ac.jp
Sep. / Feb.	-	Japanese	sad-nyushi02@office.shimane-u.ac.jp
Oct. / Feb.	-	Japanese	msa-daigakuin@office.shimane-u.ac.jp
Aug., Feb. - Mar. / June - July	△ *depends on course	Japanese/English	sad-nyushi03@office.shimane-u.ac.jp
June - July	○	English	http://www.shimane-u.ac.jp/nyushi/information/application/international_student.html sad-nyushi03@office.shimane-u.ac.jp
Aug, Feb. / June	○	Japanese/English	sad-nyushi04@office.shimane-u.ac.jp
Dec. - Jan. / June - July	○	English	http://www.shimane-u.ac.jp/nyushi/information/application/international_student.html sad-nyushi04@office.shimane-u.ac.jp

***Make sure to contact your host professor prior to application**

Availability of admission overseas	Medium of Instruction	URL / Contact
<input type="radio"/>	Japanese/English	http://www.shimane-u.ac.jp/exchange/lifelong_study/research_student/research_student03.html
<input type="radio"/>	Japanese/English	http://www.shimane-u.ac.jp/exchange/lifelong_study/part_time_student/part_time_student03.html

Inquiry URL / Contact
Enquire to International Office of your home university.
Enquire to your nearest Japan Embassy/Consulate in your home country.
【Embassy Recommendation】 (Application through Japanese Embassies) Enquire to your nearest Japan Embassy/Consulate in your home country 【University Recommendation】 (Application through Japanese Universities) Enquire to International Office of your home university
Enquire to JICA. https://www.jica.go.jp/southafrica/english/office/others/abe.html
Enquire to JICA. https://www.jica.go.jp/project/english/afghanistan/006/index.html

Guide for International Students

Tuition and Fees

The entrance examination fee, the admission fee, and tuition are shown in the table below.

Fees for 2016 Academic Year (to be fixed every year)

Types of Student	Entrance Examination	Admission	Tuition
Undergraduate	17,000 yen	282,000 yen	535,800 yen (1 year)
Graduate	30,000 yen	282,000 yen	535,800 yen (1 year)
Part-time	9,800 yen	28,200 yen	14,800 yen (1 credit)
Research	9,800 yen	84,600 yen	29,700 yen (1 month)

Tuition Exemption

Students on Japanese Government Scholarship do not have to pay these fees. Special Auditing Students whose home university has a mutual agreement for tuition and fees waiver with Shimane University do not have to pay, either.

Those undergraduate and graduate students who are unable to bear the tuition and those who have achieved excellent academic record, can be exempted from paying tuition in full or partially.

International Students at Shimane University

Both Japanese government (Monbukagakusho) scholarship-supported and self-supported exchange students currently study at Shimane University. Possible options for students wishing to study at Shimane University are:

Japanese Government Scholarship-supported Study

Embassy nominated: a student is recommended for the scholarship award by the Japanese Embassy in his/her home country.

University nominated:

(a) a student, after applying from his/her own country, is recommended for scholarship by the university in Japan at which he/she wishes to study.

(b) a student, currently enrolled in a Japanese university and paying tuition and fees at his/her personal expense, is recommended for scholarship by the university at which he/she is enrolled.

Self-supported Study

- Students who are granted admission and enroll directly in a Japanese university after having undergone all the necessary application procedures from their own country.
- Students who come to Japan to study Japanese language for approximately one year and who go on to enroll in a Japanese university, and have undergone all the necessary application procedures after having come to Japan.
- Short term exchange students, of universities with an exchange agreement, who are recommended by their home institutions, and receive a partial scholarship from the Japan International Education Association.
- Students on government scholarships from their own country.
- Students studying at a Japanese university by other arrangements.

Scholarships

1. Monbukagakusho (Japanese Government): local selection

(1) Eligible students

Research students who are already enrolled as undergraduate students and wish to proceed to the graduate school.

(2) Monthly stipend

Research student - 143,000~145,000 yen (case by case)

(3) Time of Application: usually in November

(4) Grant Organization:

Monbukagakusho (Japanese Government)

2. Gakushu Shoreihi (Monbukagakusho Honors Scholarship for privately-financed international students)

(1) Eligible student

- Postgraduate students who are already enrolled in the graduate school as self-supported students or as research students with academic records of Bachelor degree or higher degree.

- Undergraduate students who are already enrolled in undergraduate courses.

(2) Monthly stipend: 48,000 yen

(3) Time of Application: April or October

(4) Grant Organization:

Monbukagakusho (Japanese Government)

3. Shimane International Center Scholarship

(1) Qualifications

Students currently enrolled at Shimane University.

(2) Monthly stipend: 20,000 yen

(3) Time of Application: April

(4) Grant Organization: Shimane International Center

There are many options in private scholarships for international students. Please ask international student section for details.

Housing Information

1. Shimane University International Houses

International House Matsue

International House Matsue is located only 500 meters north of the University. It provides international students and researchers with accommodation and facilities to encourage international communication in education and research. International House Matsue has 28 apartments for single students and researchers, each consists of a single room without bath. Shower rooms and small kitchens are equipped on the first and second floors, and a lounge and a laundry area are equipped on the first floor. Two larger apartments are available for married couples. Each apartment has a bedroom, a living room, a bathroom and a kitchen.

International students must submit an application form for residence to the international student section in January and July. Successful applicants can take up residence in April and October respectively. The maximum term of residence is one year.

Type of Rooms	For Students		For Researchers	
	Number	Rent (per month)	Number	Rent (per month)
Single Room	26	5,900 yen	2	8,100 yen
Married couple	1	9,500 yen	1	12,900 yen



Student Dormitory

Student Dormitory is located in 10 minutes' walk from Matsue campus. All rooms are equipped with bed (with no mattress), desk, chair, closet, air conditioner, interconnections for TV and internet. Rooms in Building A and C, bathroom and kitchen are equipped and also you can put a refrigerator and a washing machine in the room. Residents in Building B can use the common ones. If International students wish to live in the dormitory since April or October, they must submit an application form in advance to the international student section.

Type of Building	Number (out of)	Rent (per month)	Common fee (per month)	Deposit
Building A (single room)	5(168)	24,000 yen	1,000 yen	18,900 yen
Building B (single room)	30(91)	4,000 yen	2,500 yen	12,960 yen
Building C (single room)	10(59)	16,000 yen	1,000 yen	18,900 yen

*Utilities, internet connection, TV reception fee are not included in the rent.

*Deposit is not refundable.

*Residents in Building B may be asked to share the room with international research students for about a month during summer.



International House Izumo

International House Izumo is located right on campus. Eight apartments are available for single students. These apartments consist of single rooms with a kitchen and prefabricated bath. Three apartments for married couples consist of a bedroom, a living room, a bathroom and a kitchen. Six larger apartments for families have three bedrooms, a living room, a bathroom and a kitchen.

International House Izumo, Tenjin branch

International House Izumo, Tenjin branch was changed from staff lodging in 2006, 2007 and 2017. It is located 2km distant from campus. Seventeen apartments for families each have three bedrooms, a living room, a bathroom and a kitchen.

International students must submit an application form for Residence to the International Exchange Office in Izumo one month before they wish to move in.

Type of Rooms	Number	For Students	For Researchers
		Rent (per month)	Rent (per month)
Single	8	5,900 yen	8,700 yen
Married couple	3	11,900 yen	21,300 yen
Family	6	14,200 yen	33,900 yen
Tenjin branch, Family	17	14,200 yen	18,600 yen



2. Private Apartments

Private apartments in Japan are usually unfurnished rooms without appliances. Prior to renting a room, you should take an inventory of furniture and appliances already equipped in the apartment beforehand.

When renting apartments in Japan, you usually have to pay an initial key money for owner (non-refundable) and deposit (refundable). The total amount for the initial key money and the deposit is three or four times of the monthly rental.

The average costs of private apartments are:

Room with shared bath: 12,000 yen to 25,000 yen

Room with private bath: 25,000 yen to 45,000 yen

Japanese Language and Japanese Culture Studies

We offer elementary, intermediate and advanced level of Japanese Language classes and Japanese Culture Studies classes for international students as follows.

Japanese Language Subject

□ Japanese IA (Composition)

Practice writing compositions and create logical sentences. Learn new vocabulary, grammar, sentence structure, and understand composition development.

□ Japanese IB (Reading)

Practice reading variety kinds of texts using appropriate reading strategies. Learn new vocabulary, expression and grammar.

□ Japanese IIA (Communication)

Practice appropriate expressions according to the situation. Learn to express opinions.

□ Japanese IIB (Vocabulary and Grammar)

Acquire important vocabulary and collocation based on various topics. Review grammar and expressions that are easy to mistake, and increase one's own grammar ability.

Japanese Studies Subject

□ Japanese Studies A <Japanese Culture and Society>

Learn about Japanese culture and customs. Receive a background in Japanese thought and values. Trips for field study are offered.

□ Japanese Studies B <Japanese Nature>

Learn about the environment of Japan and Shimane from a natural sciences viewpoint. Trips for field study are offered.

Japanese Studies Program

We offer Japanese Studies Program for Japanese and Japanese studies students receiving Monbukagakusho Scholarship. Japanese A, B, C and D classes are offered and students learn intermediate to advanced level of academic Japanese and Japanese culture through a wealth of opportunities in field study. Students are required to conduct research on a topic concerning Japan or Japanese culture at the end of the program.

Campus Life

University Union

Located in the center of campus, the University Union (daigakukaikan) is a multi-functional building that provides gathering space for club events, parties, and other activities. In addition to eight meeting rooms, there is a stationery store, a bookstore and a bakery cafe.

The University Union is a place where students can interact with each other and organize activities outside of the classroom.

Academic Calendar

April	Academic Year begins First Semester begins Spring Entrance Ceremony New Student Orientation Classes begin Course Registration for the 1st Semester
July	Semester Examinations
August	Summer Vacation
September	Intensive Seminars begin Intensive Seminars end First Semester ends Field Trip for International Students
October	University Founding Anniversary Day Second Semester begins Fall Entrance Ceremony New Student Orientation Classes begin Course Registration for the 2nd Semester University Festival
December	Shimadai International Party Winter Vacation
January	Classes Resume
February	Semester Examinations Ski Trip for International Students
March	Academic Year-End Vacation Graduation Ceremony Field Trip for International Students Second Semester ends



Shimane University CO-OP

Shimane University CO-OP is the organization in charge of university welfare. CO-OP supports students' campus life in various aspects, housing, dining, studying and more.

Shop

The shop sells and deals with stationeries, books, personal computers, foods, snacks and drinks, and domestic travel tickets.

Housing

The shop provides housing information around the campus. The shop looks for apartment which satisfies your requests and supports making a contract.

Cafeterias

There are three cafeterias in Shimane University Matsue campus

Main cafeteria:sogno

Standard popular menus as well as special menus by seasons are provided.

Second cafeteria:Nicora 1st Floor

This cafeteria is specialized in rice bowl menus.

Third cafeteria:Nicora 2nd Floor

In addition to standard menus, Halal-friendly menus are available. Based on the request from Muslim students, CO-OP developed the original Halal-friendly menus for safe and secure dining environment for those students.

Bakery & Cafe ASSET

ASSET serves bread fresh from the oven inside the shop. In the relaxing atmosphere at the bakery, students can enjoy fresh bread as well as other menus such as pasta, light meals and fresh coffee.

Extracurricular Activities and Events

International students can add to their study abroad experience in Japan by taking part in field trips provided by Shimane University. You have a chance to visit places which enable you to experience cultural traditions, beauty of nature and historical heritages. Our destinations may change every year, for examples to Tokyo, Kansai area or historically distinct countryside in Shimane Pref. where you can experience the traditional Japanese lifestyles.

You also can enjoy the International party to share your culture with not only international students but also a lot of domestic students or staffs. Please make full use of these events to enrich your stay in Japan.



Clubs & Circles

With 83 athletic and 62 culture and hobby-related teams and clubs at Shimane University, over 3000 students participate in extracurricular activities. These activities provide the opportunity for the students to develop their bodies and minds, to make friends, and to respect each other in ways that would otherwise be impossible in the classroom and are thus believed to have an important role in students' lives.

Messages from International Partners

Welcome to Shimadai

Eva Urbaneja (France)

Faculty of Law and Literature

When I knew that I was leaving France for Shimane, I was so happy, but I wondered if it would be ok. As a foreigner, I didn't know a lot about Matsue and Shimane so I was kind of afraid. « What kind of place it is ? » « Is the university good ? ». Now I can tell you : It's so great ! First I will talk about the university. As an exchange student here to improve my Japanese and to discover Japanese culture, Shimane University is an ideal place. The courses are all in Japanese, but don't panic, at the beginning it can be scary, but teachers are here to help you, they will do anything to let you understand and one day you will think : « oh, I understand everything ! ». You will progress a lot in Japanese and especially you will learn a lot about Japanese traditional culture. You will participate to probably the best school trip you can do as a Japan lover ! Shrine visits, tea ceremony, traditional Japanese cuisine, Kimono fitting, and other ! Also, the teachers are great, easy to understand, patient, and fun ! The university is a pleasant place, there is also a lot of activities, events and it's not unusual to see at the lunch time student playing music in the courtyard.



To talk about Matsue and Shimane prefecture, there is such a lot of good thing to do ! If like me, you like shrine, temple and mythology, it's probably one of the best places in Japan. There is the sea if you want to go on the beach in summer, and there is the beautiful Daisen mountain if you want to go skiing in winter !

Finally, people of Shimane are so kind ! You will think « Japanese people are kind ! » well, it's true, but maybe because Matsue (and Shimane in general) are really calm, people smile a lot, are really helpful and curious. The security is incredible, it's a really good place to live. When I came back from Tokyo (that I really loved by the way) It was so good to feel the calm and the nature of Matsue again.

To conclude, I want to say that yes, Matsue and Shimane University are really good place to learn a lot ! But also don't worry, even if a calm city, you will go out a lot, eat a lot, sing in karaoke, do purikura, and make a lot of friends !

Look forward to seeing you in Matsue !

Great Life Awaits You Here

Dyning Anggrias (Indonesia)

Teacher training student, Graduate School of Education

Japan is one of the top-performing OECD countries in reading literacy, maths and sciences with the average student scoring 540. The best-performing school systems manage to provide high-quality education to all students.

(<http://www.oecdbetterlifeindex.org/topics/education/>)

A Physics teacher, I am very fortunate to get the opportunity to expand my knowledge and skills in a country that borne many Physics Nobel Laureates.



I had a Sensei who is a great supervisor academically and is willing to help me with everyday hustle and bustle as I'm still learning to be literate. He also introduced me to many important people, gave me some chances to participate in some occasions, and took me to visit several places to benefit my research and study.

I would always be grateful for my Japan life, more that I got to choose a city that is not too urban. The city has so much to offer: scenery, good food, and well mannered people who welcome me in their life, among others. There are various enriching activities to participate in, organised by local people as well as the university. The International Students' association would like to help new students to adapt, it also hold several programs as the chance to meet not only fellow foreigners but also Japanese people from different walk of lives.

Living abroad, language barrier could be a hindrance to a vibrant life, but it's a delight to learn Japanese in its country as you can always practice with native speakers. There are also some programs provided by the university and some volunteers. I got the impression that Japanese people are eager to help in any way they could.

Ever wonder how you are going to practice your religion? People here are tolerant, supportive even. Some people ask about religious activities, out of curiosity. If you are a muslim, the university offers halal menu for lunch at one of their canteens and you could order halal food at many online stores easily, even the mosque provides some. Yes, there is a mosque just at the front of the university. For some christians students, there are churches and organisations to support you as well.

Study and life experience in Shimane University, Matsue.

Shati Samwel Stanley (Tanzania)

Interdisciplinary Graduate School of Science and Engineering

Shimane University is located in Matsue City, Shimane prefecture. Its location is full of nature and pleasing atmosphere making the University a favourable environment for study. The Matsue city is a well-organized small city; making it convenient for daily life.

As a geology student, I get chances to visit various geological field within the Shimane vicinity which is good for widening my geological knowledge. Also get chances to utilise research equipment in the University based on my major which facilitate the accomplishments of my study goals.

As a student in Shimane University, I got the chance to experience the following under the organisation of the International student section of Shimane University

- Participate in field tour to learn Japanese culture and History in various parts of Japan such as Kansai area; including Kyoto, Osaka and Hyogo.
- Visiting Japanese companies and learn about how they evolved, operating and future plans which enable the acquisition of knowledge on how to start and run a business. Building up connections with Japanese companies.
- Participated in homestay program where the International students get a chance to stay in Japanese family and experience Japanese culture and traditions.
- Participated in recreational activities such as Daisen skiing trip, visiting the Universal Studios Japan.
- Learning Japanese language and get possible help from Japanese language teachers in improving Japanese language skills.
- Building friendship with Japanese students as well as with other international students.

Welcome to Shimane University where you can find a satisfying environment for studying while enjoying the beauty of nature, culture, people's hospitality and some of the amazing historic sites including Matsue Castle and the Iwami Ginzan Silver Mine which is amongst the world heritage sites. Also, the local people of Shimane appear to be kind, friendly and welcoming to foreigners which make you feel at home.

The International student section at the University is always ready to help the International students not only concerning studies but also living matters that make a favourable atmosphere for International students living.



Higher Studies in Shimane University

Md. Asaduzzaman (Bangladesh)

Shimane University Foreign Researcher (JSPS Postdoctoral Fellow), Asao Laboratory

Shimane University is a centre of excellence where I have completed my doctoral course and currently doing research under JSPS Postdoctoral Fellowship. I have started my higher studies in this university under Japanese Govt. (Monbukagakusho) Scholarship in 2008. At the beginning it was difficult for me to adjust with the culture and environment in Matsue but gradually my life became convenient with the help of cooperative teachers, university staffs and general Japanese people. My research is in Honjo Farmlands in Education and Research Center for Biological Resources, little far from the main campus but I have a very lovely and enjoyable research environment with Japanese students. They are very gentle, friendly and cooperative. Support from international student section was excellent for smooth completion of my higher studies in Shimane University. They often arrange cultural and excursion tours for international students which provide great opportunities to learn Japanese cultures and peoples through site seeing, home staying, participating English Summer School programs etc. Staying with many international students from diverse nationalities provide opportunities of international exchange, making friends and an ideal intercultural educational environment. Besides taking part in volunteer activities with Matsue Community Police was rare experience for the international students like me. Matsue International Community Centre (MICC) and Shimane International Center (SIC) organized several events for international residence are essential and useful for daily life.

Matsue is a small calm, quiet and clean city which is good to live in community. Here I have seen a rich and distinct cultural essence. Sometimes interactions with Japanese neighbors also create good chance to learn Japanese cultures and traditions. Politeness, modesty and hardworking attitude are the most distinctive features of the Japanese Society that we all should admire and adopt. Seasonal and cultural festivals like "Omatsuri", fireworks at "Lake Shinji", Peony flower festival at Daikonjima are memorable to me. Sea beaches like Kashima in Matsue, Kirarataki in Izumo, and Sakaiminato in Yonago are famous places for visiting with my friends and families. The healthy Japanese diet is often believed to be related to the longevity of Japanese people. Although it was difficult for me to eat some Japanese traditional foods, but fresh fruits and vegetables, fishes and varieties of drinks were very enjoyable. Dishes such as sushi, tempura and ramen have become my favorite food.

Japan is very safe country to live in and would be the best choice for students from Bangladesh. One can experience here both the rich ancient culture and modern city facilities. Therefore, living in Shimane would give international students an opportunity of higher studies and research in Shimane University. Teachers and researchers of this university are doing original and interesting work addressing local and regional challenges. It is offering excellent interventional exchange programs with Asian and other foreign countries. Moreover, scholarship opportunities provided by the university and the Japanese government open the windows to higher education here. I would strongly recommend international students for studying at Shimane University.



International Exchanges

International Partnerships (as of March 1, 2017)

■ University Level Agreement

No.	Country/Region	University/Institute	Conclusion Date
1	CHINA	Northeast Forestry University	1989.12.28
2		Nanjing Forestry University	1993. 4.15
3		China Agricultural University	1996.12.29
4		Ningxia University	1997. 8.18
5		Beijing Forestry University	1997. 8.23
6		Jilin University	1999. 2. 1
7		Hebei Normal University	2002. 7.29
8		Dalian University	2003. 6.30
9		Ningxia Medical University	2004. 2.27
10		Beijing Normal University	2004. 3.18
11		Renmin University of China, School of Economics	2005. 4.14
12		Shandong University	2005. 7.20
13		Zhejiang University, College of Education	2006. 3.31
14		Northeast Normal University	2012.11.22
15		Beijing University of Agriculture	2014. 5.14
16		Minnan Normal University	2014. 9.12
17		Northwest A & F University	2015. 5.22
18		University of Science and Technology Beijing	2016. 3.18
19	U.S.A.	Central Washington University	1982. 3.26
20		Kent State University	1982. 8.31
21		University of California, Davis	1986. 2.11
22		University of Arkansas	1993. 3.1
23		University of Colorado, Denver, School of Medicine	2006. 2.23
24		University of Texas at Dallas	2007. 8.10
25		The University of Arizona	2010. 5.26
26		The University of Texas at Tyler	2012.10.17
27		University of Florida	1991. 3. 5
28	THAILAND	Mahidol University, Faculty of Medicine Siriraj Hospital	2011. 2. 2
29		Khon Kaen University	2014. 4.10
30		King Mongkut's University of Technology Thonburi	2014. 9. 2
31		Thammasat University	2014. 9. 2
32		Princess Chulabhorn's College, Pathumthani	2014. 9. 2
33		Hanamaru Japanese Language School	2014. 9. 2
34		Chiang Mai University	2017. 2.28
35	KOREA	Busan National University of Education	1990. 3.23
36		Gyeongsang National University	1991. 3. 5
37		Kyungpook National University	1991. 3. 6
38		Chonbuk National University	2013.12. 5
39	INDIA	Indian Institute of Science	2013.11. 5
40		Banaras Hindu University	2015. 5. 1
41		Cochin University of Science and Technology	2016. 5.24
42	FRANCE	Jean Moulin-Lyon 3 University	1990.11.24
43		The University of Orleans	2002. 7.12
44	INDONESIA	Andalas University	1997. 5. 6
45		Hasanuddin University	2013.12.17
46	MONGOLIA	Mongolian University of Science and Technology	1999. 3.24
47		Mongolian National University of Medical Sciences	2002.10. 4

No.	Country/Region	University/Institute	Conclusion Date
48	BANGLADESH	University of Dhaka	2011. 4.12
49	CANADA	Nipissing University	2016. 5.31
50	ETHIOPIA	Hawassa University	2013. 9. 7
51	FINLAND	JAMK University of Applied Sciences	2014. 2.13
52	GERMANY	University of Trier	2008.11.20
53	ICELAND	University of Iceland	2015. 9.18
54	KAZAKHSTANA	Semey State Medical University	2013. 1.28
55	MYANMAR	Patheingyi University	2016.12. 4
56	NEPAL	Tribhuvan University	1991.12. 8
57	NEW ZEALAND	Waikato Institute of Technology	2014. 2. 5
58	RUSSIA	A. Tsyb Medical Radiological Research Center	2016. 5.17
59	SRI LANKA	University of Peradeniya	2014. 3.25
60	SWEDEN	Linköping University	2005. 4.21
61	TAIWAN	National Sun Yat-sen University	2015. 2.12
62	U.K.	University of Exeter	2014. 4. 4
63	VIETNAM	Hanoi Medical University	2005.10.17

■ Faculty Level Agreement

■ Faculty of Education

1	KOREA	ENUE Elementary School, Busan National University of Education	1990. 3.23
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■ Faculty of Medicine

2	THAILAND	Faculty of Medicine, Thammasat University	2014. 2.28
3		Thammasat University Hospital	2015. 3.31
4	CHINA	Peking University Health Science Center	2016. 6.30
5	U.S.A.	School of Medicine, University of Washington	2015. 9.25

■ Faculty of Life and Environmental Science

6	BANGLADESH	Faculty of Agriculture, Bangladesh Agricultural University	2017. 1.19
7		Horticulture Research Centre, Bangladesh Agricultural Research Institute	
8	THAILAND	Faculty of Science and Technology, Thammasat University	2014. 7.10
9	U.S.A.	The Department of Plant Sciences, University of California, Davis	2012.10. 2

■ Interdisciplinary Graduate School of Science and Engineering

10	KOREA	College of Natural Sciences, Pusan National University	2013.12. 2
11		College of Engineering, Pusan National University	2014.11. 4
12		College of Natural Sciences, Pusan National University	2015. 1.16
13	CHINA	School of Mathematical Sciences, Dalian University of Technology	2014. 2.10
14	SRI LANKA	Faculty of Applied Science, Rajarata University of Science	2015. 5.14

■ Center for Community-based Health Research and Education

15	SWEDEN	The Center for Primary Health Care Research, Lund University	2014. 4.28
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■ The Nanotechnology Project Center, Center for the Promotion of Project Research

16	INDIA	The Laser Spectroscopy Group, Indian Institute of Science (INDIA)	2014. 1.23
17	TAIWAN	The Center for Interdisciplinary Science, National Chiao Tung University (TAIWAN)	

■ Raman Project Center for Medical and Biological Applications

18	TAIWAN	Department of Life Science, National Taiwan Normal University	2014.11.13
19		Molecular Imaging Center, National Taiwan University	2015. 2.12

■ Project Center for Historical and Cultural Studies in Eastern Asia and Pacific Area

20	CHINA	Peking University Department of History	2015. 3.23
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Number of Students

as of Mar.1, 2017

Undergraduate

(International Students 88)
(Total Enrollment 5,213)

Breakdown of students by Faculty

	Total No. of Students	No. of International Students
Faculty of Law and Literature	1035	41
Faculty of Education	724	6
Faculty of Medicine	770	2
Interdisciplinary Faculty of Science and Engineering	1789	23
Faculty of Life and Environmental Science	895	16

Breakdown of International students by country/region

Country/Region	No.	Country/Region	No.
Afghanistan	4	Malaysia	3
Bangladesh	2	Mongolia	1
Brazil	1	South Africa	1
China	49	Taiwan	2
France	2	USA	2
Germany	2	Vietnam	8
Korea	11	Total	88

Graduate

(International Students 107)
(Total Enrollment 752)

Breakdown of students by Graduate School

	Total No. of Students	No. of International Students
Graduate School of Humanities and Social Sciences	29	9
Graduate School of Law	5	-
Graduate School of Education	55	3
Graduate School of Medical Research	227	27
Interdisciplinary Graduate School of Science and Engineering	276	22
Graduate School of Life and Environmental Science	125	30
(The United Graduate School of Agricultural Sciences Tottori University)	35	16

Breakdown of International students by country/region

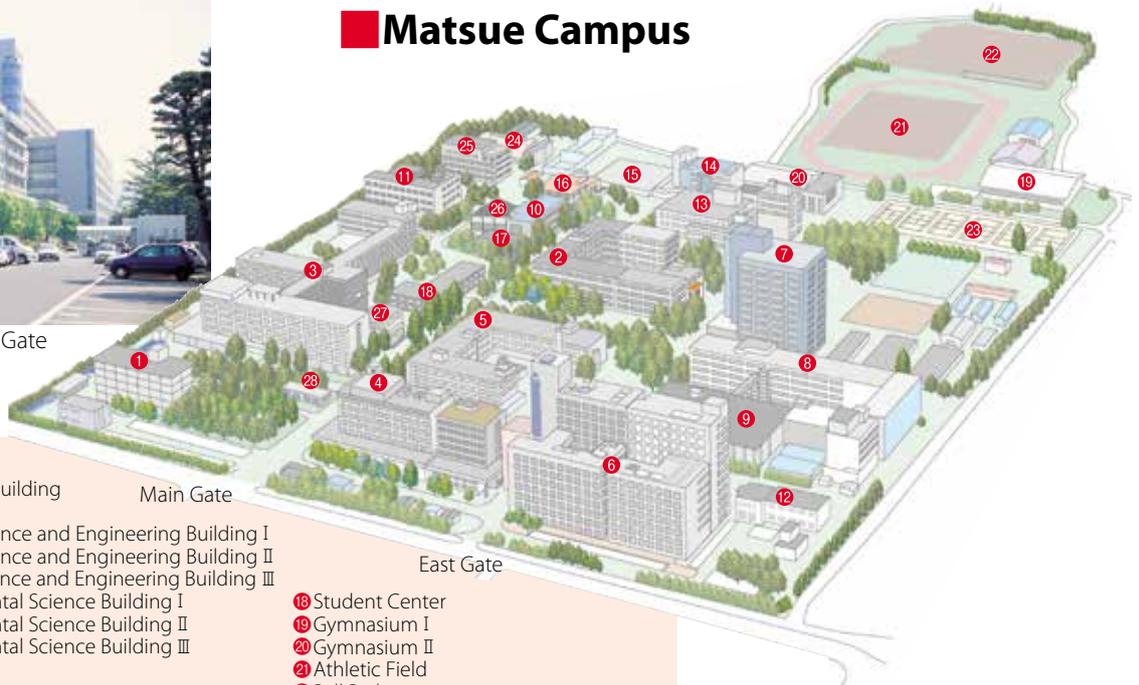
Country/Region	No.	Country/Region	No.
Afghanistan	6	Malaysia	1
Bangladesh	23	Mongolia	4
China	35	Mozambique	1
Egypt	2	Myanmar	3
Ethiopia	1	Nepal	3
Ghana	1	Nigeria	3
Guinea	2	South Africa	1
Indonesia	9	Tanzania	3
Kenya	2	Thailand	4
Korea	1	Vietnam	1
Kyrgyzstan	1	Total	107

Campus Maps



Near the Main Gate

Matsue Campus



- 1 Administration Building
- 2 Faculty of Law and Literature Building
- 3 Faculty of Education Building
- 4 Interdisciplinary Faculty of Science and Engineering Building I
- 5 Interdisciplinary Faculty of Science and Engineering Building II
- 6 Interdisciplinary Faculty of Science and Engineering Building III
- 7 Faculty of Life and Environmental Science Building I
- 8 Faculty of Life and Environmental Science Building II
- 9 Faculty of Life and Environmental Science Building III
- 10 General Education Building I
- 11 General Education Building II
- 12 General Information Processing Center
- 13 Main Library
- 14 University Union
- 15 Student Cafeteria I "sogno"
- 16 Student Cafeteria II "Nicora"
- 17 Health Service Center
- 18 Student Center
- 19 Gymnasium I
- 20 Gymnasium II
- 21 Athletic Field
- 22 Ball Park
- 23 Tennis Courts
- 24 Swimming Pool
- 25 Extracurricular Activity Center
- 26 University Hall
- 27 Student Support Center
- 28 Community Exchange Meeting House

Izumo Campus



Near the Main Gate

- 1 Medical Branch Bureau
- 2 Lecture Building
- 3 Practical Training Building
- 4 Basic Research Building
- 5 Clinical Research Building
- 6 Central Research Laboratories
- 7 Basic and Clinical Research Building
- 8 Third Research Building
- 9 Radioisotope Research Laboratory and Institute of Experimental Animals
- 10 Medical Library
- 11 Outpatient Clinics and Central Clinical Facilities
- 12 Ward
- 13 New Ward
- 14 Second Part of Radiological Center
- 15 Clinical Lecture Building
- 16 Welfare Facilities
- 17 Gymnasium
- 18 Budo Gymnasium
- 19 Energy Center
- 20 Nurses' Housing
- 21 Guest House
- 22 MR Center
- 23 Training Building for Young Doctors
- 24 Medical Records Room
- 25 International House Izumo
- 26 School of Nursing Building
- 27 Cooperative Research Center (Medical Liaison Division)
- 28 Nursery School
- 29 Parking Structure
- 30 Heliport

Brief Introduction to Matsue City and Izumo City

Matsue City, with a population of about 206,000, located in the eastern part of Shimane Prefecture, is the seat of the prefectural government and serves as the political, economic and cultural center of the region.



Sunset over Lake Shinji

It is a beautiful city, well-known from ancient times as the “city of water”, with the large lakes of “Lake Nakaumi” and “Lake Shinji” respectively on the eastern and the western borders of the city. This region, which is traditionally called the “Province of Izumo”, was one of the most prosperous cultural centers in ancient Japan, with its local government established in Matsue as far back as the sixth century. Many relics of the old town have been found in and around the city.



Horikawa Sightseeing Boat

Since Matsue Castle was built in 1611, Matsue has enjoyed prosperity as a castle town. Even today, you can still see many structures and moats remaining just as they used to be, including Matsue Castle, which was designated as a National Treasure in 2015, the Samurai Houses and the waterways running through the city.

In 1951, the city was designated as an “International Cultural and Sightseeing City”, together with Kyoto and Nara, and has attracted many tourists from abroad as well as from various parts of Japan.

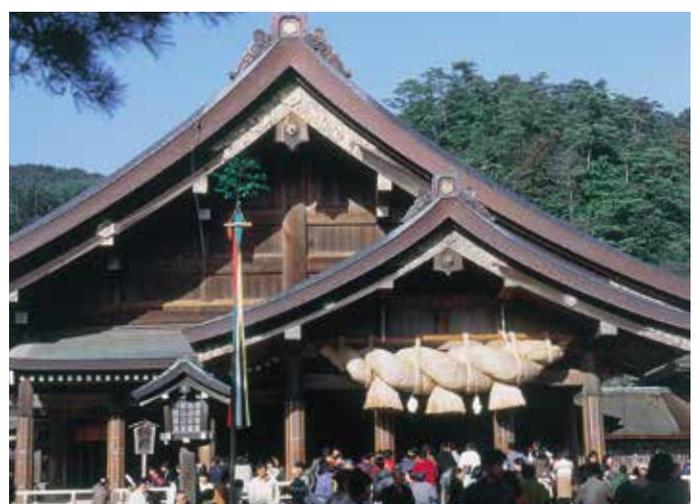


Matsue Castle

Izumo City is located 40 kilometers west of Matsue, and can be reached in an hour by car, or in 40 minutes by rail. The Izumo region is surrounded by a natural landscape, including “Lake Shinji” and the extensive Izumo plains, and is well known as a tourist area. Izumo City has become a core center in Shimane Prefecture, and its population of about 171,000 ranks second only to Matsue City.

Izumo has been known as “The Land of the Gods” since ancient times, and is famous for the legends of the Izumo Taisha Grand Shrine and the eight-headed serpent (Yamata no Orochi). It is said that for one month, in the 10th month of the lunar calendar, the rest of Japan becomes the “Land Without Gods”, because all of Gods come home to Izumo. The discovery of many ancient burial mounds and monuments throughout the Izumo district confirms that an advanced culture was well-established here centuries ago.

As many places in Japan, four seasons are very clear and each has characteristic beauties. You may be overwhelmed by the traditional and natural riches we have in our sacred region.



Izumo Taisha Grand Shrine

Access to Shimane University

Location of Shimane University



Campus Transportation

Matsue Campus

By AIR	Route	Time
	Tokyo(Haneda) → Izumo	1h25m
	Fukuoka → Izumo	1h5m
	Nagoya(Komaki) → Izumo	1h
	Osaka(Itami) → Izumo	55m
	Tokyo(Haneda) → Yonago	1h20m

Shuttle bus from airport to Matsue station

Izumo Airport → JR Matsue station	30m
Yonago Airport → JR Matsue station	45m

J R	Route	Time
	Tokyo - Okayama - Matsue	6h10m
	Fukuoka - Okayama - Matsue	4h30m
	Osaka - Okayama - Matsue	3h40m

Transportation from JR Matsue station to Matsue campus

By local bus → Matsue campus	15-20m
By taxi → Matsue campus	10m

Izumo Campus

By AIR	Route	Time
	Tokyo(Haneda) → Izumo	1h25m
	Fukuoka → Izumo	1h5m
	Nagoya(Komaki) → Izumo	1h
	Osaka(Itami) → Izumo	55m

Shuttle bus from airport to Izumoshi station

Izumo Airport → JR Izumoshi station	25m
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J R	Route	Time
	Tokyo - Okayama - Izumoshi	6h40m
	Fukuoka - Okayama - Izumoshi	5h
	Osaka - Okayama - Izumoshi	4h10m

Transportation from JR Izumoshi station to Izumo campus

By local bus → Izumo campus	5-10m
By taxi → Izumo campus	10m



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Peonies are Shimane prefecture's official flower