SHIMANE UNIVERSITY PROSPECTUS 2021-2022



Welcome to Shimane University!



Shimane University was established as a national university in 1949 and is celebrating its 72nd anniversary in 2021. Shimane University has continued to expand and currently consists of six faculties across two campuses. Matsue Campus is home to undergraduate studies including the Faculty of Law and Literature, the Faculty of Education, the Faculty of Human Sciences, the Interdisciplinary Faculty of Science and Engineering, and the Faculty of Life and Environmental Science. Graduate courses include the Graduate School of Education and the Graduate School of Natural Science and Technology; in April 2021, Shimane University welcomed the new addition of the Graduate School of Human and Social Sciences. Izumo Campus comprises the Faculty of Medicine and the Graduate School of Medical Research.

With the progress of digital transformation (DX) in society and consideration for the construction of a sustainable society, Shimane University's goal is to enable students to develop international perspectives and their ability to become 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. They 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 conducted using international standards.

Currently, we have more than 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. Living in Shimane, students may come to feel a connection with the wonderful nature, history, and culture of Japan. As such, they can devote themselves to studying and learning at Shimane University in a peaceful environment with rich and abundant nature.

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

Hattori Gasunao HATTORI Yasunac

President of Shimane University

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G

Genuineness

To foster students with initiative who possess a high degree of expertise and human compassion.

Openness

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

A

Applicability

To promote social service programs that can solve local problems.

Γ,

Linkage

To promote international exchanges with Asian and other foreign countries.

Su To re

Sustainability

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

Shimane University Principles for SDGs

Shimane University states in its university charter that it will "strive to develop a prosperous society that coexists with nature." Based on activities such as persistent education, research and medical care, we are working toward the achievement of SDGs through fostering people who contribute to the promotion of regional revitalization, development of a peaceful international society, and realization of an inclusive society. By doing so, Shimane University will contribute to the creation of a sustainable society.

In particular, Shimane University takes advantage of the geographical characteristics of the region. In order to conserve and succeed the environment to future generations, we work closely with the local community, and at the same time, strive for education that raises students' awareness of SDGs.

HATTORI Yasunao, President of Shimane University November 14th, 2019





Shimane University is located in Shimane Prefecture, an area of Japan well-endowed with nature, including Lake Shinji, UNESCO Global Geopark, the Oki Islands, and Mount Sanbe. In addition, the prefecture has many historical and cultural assets, including Iwami Ginzan Silver Mine, which is a World Heritage Site, Izumo Taisha Grand Shrine, and Matsue Castle, the last two of which are designated as national treasures. Shimane University is an ideal place to study as students can fully experience the abundant nature and be immersed in an environment where they are able to study the traditions of Japan.

Production and Innovation

Shimane Prefecture is the only prefecture in Japan that still produces a special type of iron that is used as raw material for Japanese swords. Utilizing the foundations of this traditional ironmaking technology, Shimane Prefecture has become a significant production hub for unique steel used in industries such as aerospace. Furthermore, as Matsue City is the birthplace of the creator of the computer language Ruby, the IT industry is becoming more concentrated, and business exchanges with overseas IT companies are being actively executed. Shimane University is decidedly engaged in research and human resource development in collaboration with such local industries.





Transportation

	Matsue Can	npus
AIRPLANE	Tokyo (Haneda) Fukuoka Osaka (Itami) Tokyo (Haneda)	 → Izumo 1h 25m → Izumo 1h 5m → Izumo 55m → Yonago 1h 20m
Shuttle Bus f	rom Airport to Ma	tsue Station
Yonago Airport	\rightarrow JR Matsue S	Station 45m
TRAIN	Tokyo -Okayar Fukuoka - Okayar Osaka - Okayar	na - Matsue 6h 10m na - Matsue 4h 30m na - Matsue 3h 40m
Transportatior By local bus By taxi	 from JR Matsue Sta → Matsue Campu → Matsue Campu 	ation to Matsue Campus Is 15-20m Is 10m

Izumo Campus

AIRPLANE

Tokyo (Haneda) Fukuoka Osaka (Itami)

→ Izumo ----- 1h 25m → Izumo ----- 1h 5m → Izumo ----- 55m

Matsue Campus

Shuttle Bus from Airport to Izumoshi Station

-	rr/	AIN	
	•	_	
- (-		

Tokyo	- Okayama - Izumoshi 6h 40m
Fukuoka	- Okayama - Izumoshi 5h
Osaka	- Okayama - Izumoshi 4h 10m

Transportation from JR Izumoshi Station to Izumo campus By local bus → Izumo Campus ------ 10m By taxi → Izumo Campus ----- 10m

International Exchanges

International Partnerships (Countries and Regions)



Asia

BANGLADESH	
CHINA	26
INDIA	
INDONESIA	4
KAZAKHSTAN ······	2
KOREA	14
MONGOLIA	2
MYANMAR ······	1
NEPAL ·····	1
SRI LANKA	2
TAIWAN ·····	····· 7
THAILAND	13
VIETNAM	

Europe

FRANCE	
GERMANY	- 1
ICELAND	- 1
IRELAND	- 1
ITALY	- 1
POLAND	· 2
SWEDEN	- 2
SWITZERLAND	- 1
UKRAINE	- 1

Middle East

TURKEY ------ 1

North America

CANA	A	1
U.S.A.		9

South America

BRAZIL	 1

Africa ETHIOPIA 1

Oceania

As of May 1, 2021

The latest list of our international partnerships can be found at https://kokusai.shimane-u.ac.jp/english/about/agreement.html



Organization

Undergraduate Schools

Faculty of Law and Literature

Department of Law and Economics Department of Socio-Cultural Studies Department of Language and Culture

Faculty of Education

School Teacher Training Course Attached Kindergarten Attached Compulsory Education School

Faculty of Human Sciences

Department of Human Sciences

Faculty of Medicine

School of Medicine School of Nursing University Hospital

Interdisciplinary Faculty of Science and Engineering

Department of Physics and Materials Science Department of Chemistry Department of Earth Science Department of Mathematics Department of Information Systems Design and Data Science Department of Mechanical, Electrical and Electronic Engineering Department of Architectural Design

Faculty of Life and Environmental Sciences

Department of Life Sciences Department of Agricultural and Forest Sciences Department of Environmental and Sustainability Science

Attached Facilities and Institutions

Head Office for Education and Student Support

Higher Education Center Health Service Center Student Support Center Student Accessibility Office

Head Office for Research and Academic Information

Center for the Promotion of Project Research Estuary Research Center Interdisciplinary Center for Science Research General Information Processing Center Center for Community-Based Healthcare Research and Education Shimane University Museum ASHIKARU Center for Natural Disaster Reduction Research and Education Education and Research Center for Mathematical and Data Science

Head Office for Promotion of Globalization

International Center Center for Foreign Language Education International Joint Research Institute of Shimane University and Ningxia University

Head Office for Regional Collaboration and Innovation

Head Office for Open Innovation Promotion

Next Generation Tatara Co-Creation Centre

University Library Main Library in Matsue Medical Library in Izumo

Undergraduate

Total Number of

Students

Graduate

Number of International Students

Graduate Schools

Graduate School of Human and Social Sciences Division of Social Development and Innovation Division of Clinical Psychology

Graduate School of Education

Department of Professional School for Teacher Education

Graduate School of Medical Research Department of Medical Science Department of Nursing Science

Graduate School of Natural Science and Technology

- Major in Science and Engineering
- Major in Science of Environmental Systems
- Major in Agricultural and Life Sciences
- Major in Science and Engineering for Innovation

Number of International Students

Total Number of Students

Number of international students includes non degree-seeking students and students from the United Graduate School of Agricultural Sciences, Tottori University As of May 1, 2021

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Cutting-Edge Research

Next Generation Tatara Co-Creation Centre: NEXTA

Becoming the global leader in metal materials

Tatara steel in Shimane has a history spanning over a thousand years. Taking advantage of both old and new advanced tatara technology, the centre was established as a new R&D laboratory for the world's

leading-edge metal materials. Professor Roger Reed of the University of Oxford was invited to act as director. Students and researchers have the opportunity to attend some of the world's highest-level classes and learn about cutting-edge research in Shimane.



Four Pillars of Materials Science and Engineering

At NEXTA, we promote research on advanced metal materials in collaboration with researchers from domestic and overseas universities, research institutes and private companies. R&D at the centre features the interrelation among the four important components of materials science and engineering, identified as the Four Pillars: (1) Characterization, (2) Mechanical testing, (3) Computational modeling, and (4) Processing. Students can join NEXTA's research group after they are admitted to the Interdisciplinary Faculty of Science



and Engineering at Shimane University and are assigned to the laboratories of NEXTA faculty members.

Human Resource Development at NEXTA

We aim at nurturing highly creative innovators and advanced researchers and engineers who will lead the future material field. NEXTA offers education and research based on the knowledge and technology related to the evaluation and processing of metal materials that Shimane University has accumulated with the National Institute of Technology, Matsue College, and companies in Shimane Prefecture, as well as cuttingedge materials engineering of collaborating universities. Students who are assigned to the laboratories of NEXTA faculty members can join research activities with collaborating universities, institutes, and private companies, and also have the opportunity to be selected as research associates who will be sent to the University of Oxford for research training.

The Advanced Materials Science and Engineering Course in the Major in Science and Engineering at the Graduate School of Natural Science and Technology was opened in April 2021 as one of the two-year Master's Courses. The course trains advanced engineers and researchers who have knowledge from the



basics to applications of materials science, specializing in the fields such as materials development and design, materials processing systems, and characterization and testing of mechanical properties.

The Doctoral Course at the Graduate School of Natural Science and Technology offers three special programs. One of them is the Materials Engineering Special Program for students involved in the research of advanced materials at NEXTA. Materials engineering is a discipline that combines physics and chemistry, and requires education that goes beyond the boundaries of the Science and Engineering Course and the Science of Natural Environment Systems Course in the graduate school. In this program, students can take subjects in relation to materials engineering that exceed the boundaries of educational research and develop the ability to contribute to society as advanced researchers and engineers in the materials engineering field. Students in each year of this special program have a chance to be employed as research associates of NEXTA.

New Research Building Inaugurated in April 2021

A new laboratory building for the Next Generation Tatara Co-Creation Centre was recently opened in April 2021, at Matsue Campus of Shimane University. The three-story new building has a floor space of 1,845 square meters. The building was designed with the concept of "a research laboratory that unites people and technology" to become a base for open innovations where industry, academia, and government work together to create innovation. It is equipped with advanced and distinctive apparatus with an interactive space for students, teachers, and business persons where they can have wide-ranging discussions for innovation.

World-Class Observation of Atomic Arrangement Disorder

A research paper written by Professor ARAKAWA Kazuto, Vice Director of NEXTA, was published in Nature Materials in January 2020. The journal is one of the most influential publications in the materials field, and the news was reported by the national and international media. In his research, Professor ARAKAWA observed for the first time in the world that defects in a metal at low temperatures behave in a mysterious manner called "quantum diffusion," by using a transmission electron microscopy that can examine samples at the atomic level. These results can open a new window to improve steel materials with low temperatures, and is expected to be useful for the development of materials that produce a large number of defects, such as materials for fusion reactors, which will be a future energy source.



Raman Spectroscopy



Faculty of Life and Environmental Sciences Professor YAMAMOTO Tatsuyuki

Indian physicist C.V. Raman discovered a new light scattering phenomenon in 1928, and was awarded the Nobel Prize in Physics only two years later. This light scattering phenomenon is now called Raman scattering. It is a phenomenon in which light exchanges energy with the molecules that make up a substance. The scattered light

contains a lot of molecular information. Raman spectroscopy is a method of investigating the properties of molecules using Raman scattered light.

The measurement of Raman scattered light does not require any special preparation such as staining and can be measured as it is. Moreover, it does not damage living cells or tissues. Therefore, by measuring Raman scattered light with a microscope, it is possible to investigate the properties of the molecules that form living cells and tissues while keeping them alive. In other words, you can see the vibrant activities of various molecules that are active for life to live and act.



R & D and Practical Application through Joint Venture with Shimane University



Faculty of Medicine, Department of Joint Research in Immunoneuropsychiatry Professor OH-NISHI Arata RESVO, Inc. President (Ph.D.)

Shimane University and RESVO, Inc. developed a joint research course which analyzes amounts of stress through urinalysis. This research established a technique to quantify the degree of increases in stress by adding the assessment of an immune marker to the value of biopyrrin. The feature of this method is its superior measurement accuracy compared to that of convention-

al stress markers. These markers have already been sold by RESVO for research purposes, but the research team is working to resolve issues such as price and eventually aim for commercialization.

The joint research course, in addition to developing stress markers that can be analyzed through urinalysis, also researches and develops therapeutic agents for schizophrenia caused by constitutional hyperbilirubinemia as well as for immunocompromised psychiatric disorders.

Professor OH-NISHI Arata at the Faculty of Medicine

at Shimane University, and also sitting president of RESVO, stated, "If the number of samples increase, it should be easier for these markers to be used at a lower price. It would be beneficial if this led to the earlier discovery of stress working people have."



UNESCO Chair on Geoenvironmental Disaster Reduction

The UNESCO Chair on Geoenvironmental Disaster Reduction was founded in April 2018. Since its foundation, the center has actively carried out international exchange through the UNESCO Chair International Field School. The International School provides an excellent opportunity to learn about advanced natural disaster risk reduction and offers interaction among students from different countries. In 2020, the Field School invited twenty-seven students and lecturers from six countries: Nepal, Indonesia, Kyrgyzstan, France, Slovenia, and the Czech Republic. The program schedule consisted of a series of lectures by invited lecturers and a two and a half days' excursion around Shimane University. The participants, including Shimane University students, also visited Iwami Ginzan Silver Mine, designated as a World Heritage Site, Mt. Sanbe, an active volcano, and facilities that act as countermeasures against significant flooding in the Hiikawa River system running through eastern Shimane. Students enjoyed the nature of Shimane, the spacious facilities used as the countermeasures for flooding, and the remains of a buried forest that is the result of a large-scale natural hazard. Groups made up of students from different countries delivered presentations at the end of the five-day school. A virtual International School was held in 2021 due to the

COVID-19 outbreak, and forty-five participants from twelve countries, including international students in Japan, intently listened to ten lectures.





International Joint Research Institute of Shimane University and Ningxia University

The International Joint Research Institute of Shimane University and Ningxia University was established in 2004 to strengthen the academic partnership between the two institutions, which was founded in 1987. The institute building is located on Ningxia University's campus in Yinchuan city. The main objectives of the institute are to promote interdisciplinary joint research projects on social and natural sciences relevant to SDGs, and to develop an academic research network for tackling problems to be solved in the western region of China with cooperating universities in China and visiting scientists of the institute.



Estuary Research Center (EsReC)

Estuary Research Center (*EsReC*) is the only research center in Japan devoted to the study of estuaries and brackish waters and is promoting basic and applied sciences on estuaries and coasts, including their water-sheds towards sustainable estuaries. *EsReC* was founded in 1992 as the Research Center for Coastal Lagoon Environments (ReCCLE) and renamed in 2017 to specify the objectives of the research center as solving the estuary environment and ecology.



Campus Life



Tutor System for International Students

International students are able to receive support from tutors through the university's tutor system. One tutor is assigned to each international student for the first six months of the student's studies after enrolling in the university or after coming to Japan. Tutors help with various matters such as necessary procedures at the university and at public institutions. Tutors are Japanese students currently enrolled at Shimane University and aid international students in a number of ways: talk on a regular basis, help with studies, research and daily life, and offer support to improve Japanese language skills. Professors and staff at the International Center and International Exchange Division assist tutors in carrying out their activities. Through help from tutors, international students are able to hit the ground running with a well-prepared student life in Japan.



Field Trip for International Students

Japanese Language and Japanese Culture Studies

Shimane University offers elementary, intermediate and advanced level Japanese language courses and Japanese Culture Studies courses for international students. Elementary courses require a proficiency level of JLPT N5 or higher. The content of the Japanese classes are as follows: composition, reading, listening, speaking, vocabulary and grammar. These classes are officially recognized and provide academic credits upon completion. Furthermore, there are a variety of non-accredited courses available to all international students.



10 12

NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
	Shimane University	Winter Vacation	Final Exams	Graduation
	International Party	ends	Ski Trip for	Ceremony
	Winter Vacation	Classes resume	International Students	Second Semester ends

Exchange Events and Club Activities

OCTOBER

Second Semester

Autumn Entrance

University Festival

begins

Ceremony.

Orientation

International students can enrich their study abroad experience in Japan by taking part in field trips sponsored by Shimane University. Students have the chance to visit places that enable them to experience cultural traditions, the beauty of nature and historical heritages, including a historically distinct countryside town in Shimane Prefecture where students can experience traditional Japanese life. All students can also enjoy the annual International Party to share their culture with not only other international students but also many Japanese students and staff.

Furthermore, Shimane University has various athletic, culture and hobby-related teams and clubs that welcome international students. There are approximately one hundred clubs on Matsue Campus, and fifty clubs on Izumo Campus that conduct activities on and off campus. These activities provide the opportunity for students to enhance their bodies and minds, to make friends, and to respect each other in ways that would be impossible inside the classroom. As such, these activities are believed to play an important role in students' lives.



ends

Spring Vacation

Spring Vacation



Daily Life of International Students



Zhang	Linfeng
(Sru year, Fac	curry of Law and Literature)
From	Zhejiang Province, China
Housing	Apartment
Club	No
Part-time job	Convenience store (4-5 times/week)

Moniniy Living Expenses	
Income	Expenses
Allowance 0 yen	Rent 29,000 yen
Scholarship0 ven	Utilities 8,000 yen
ouriolarship o yerr	Food expenses 30,000 yen
Part-time job ····· 85,000 yen	Miscellaneous 10,000 yen
Total 85,000 yen	Total 77,000 yen



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1.88	(4.3.3)	开右 齐方	法法理	常天
4.9.9	行无效	* * * *	1.2.2	考察
80.3	网络长	きまちま	丁生む	13
2.9.1	2.4.8	80.87	1.1.2	5.8
"大学	1.04	8.7.5.3	2.8.2	22
72.000	10.7.7	****	1.4.4	12
1.11	化化学	****	1 之大田	2.2

Philosophy and Penmanship Although I am not religious, I like the philosophical ideology of Confucianism, Shinto and Buddhism. When I feel restless, I reproduce these sentences using a pen and paper. This is a surprisingly effective stress reduction method.

Weekly Schedule

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Class1				0			
Class2	L		0	L			
Class3	0	0		L	0		
Class4				0	0		
Class5		Р	Р			Р	Р
After School		Р	Р			Р	Р
Lecture	Onl	Online Lecture			Part-time job		



Hamizan Bin Ismail

(3rd year, Faculty of Life and Environmental Sciences)



····· 175,000 yen

 Income
 Expenses

 Allowance
 0 yen

 Scholarship
 135,000 yen

 Part-time job
 4,000 yen

•97.000 ven

Total



Enjoying nature!

As Shimane is blessed with abundant nature, you can enjoy the rich natural beauty! Every week I go on a journey in search of this.

Weekly Schedule

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Class1	L				L		
Class2	L	L	L	L	L		
Class3	L	L					
Class4	L						
Class5		L					
After School		Р	Р	Р			
Lecture	Online Lecture			Part-time job			

Cafeteria

The cafeterias at Matsue Campus and Izumo Campus offer standard menus and seasonal menus, which are popular among the students. In addition to Japanese cuisine, international dishes are available as well.

Total ...

Furthermore, due to high demand, Matsue Campus' Co-op has developed original, Halal-friendly menus so Muslim students can have a healthy and carefree dining experience.



University Housing

https://kokusai.shimane-u.ac.jp/ kaigairyugakusei/english/index.html#housing



1. Shimane University International House

Matsue Campus

Located 500m away from campus and is for Matsue Campus exchange students.

https://kokusai.shimane-u.ac.jp/english/research/ international_house.html

Izumo Campus

On-campus housing for Izumo Campus international students and researchers.

Izumo Campus Tenjin Branch



Matsue Campus

Izumo Campus

Located 2km from Izumo Campus and is for Izumo Campus international students and researchers who have family.

2. Student Dormitory

The student dormitory is located a 10-minute walk away from Matsue Campus. Buildings A, B and C each offer slightly different amenities and are conveniently located in the same complex.



Job Hunting Support

Job hunting support for international students is conducted collaboratively by the Career Section of the Higher Education Center and the International Center. International students can gain a greater knowledge of Japan's job-hunting culture through job hunting guidance sessions, individual job counseling, visits to companies, and regularly-held business Japanese language lectures. As a result of these opportunities, international students consistently graduate from the university and move on to obtain successful careers in Japan.



Shimane University Welcomes and Supports International Students and Researchers!

International Center
 https://kokusai.shimane-u.ac.jp/english/



• Student Support Center http://gakushien.shimane-u.ac.jp/



• Health Service Center

Matsue Campushttps://shimane-u.health.wdeco.jp/Izumo Campushttps://www.med.shimane-u.ac.jp/health/







Faculty of Law and Literature



The Faculty of Law and Literature covers a wide range of fields in humanities and social sciences. You can study a variety of research fields in small-size classes, where 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. Many 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.

We seek students with a strong motivation to study and a clear vision of the future. We are committed to ensuring that our students acquire academic knowledge, 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 a high school education. International students are also required to have a high level of proficiency in Japanese language (N1 of the Japanese Language Proficiency Test) since education is conducted in Japanese.

https://www.hobun.shimane-u.ac.jp/



Department of Law and Economics

Law Course

- Economics Course
- Judicial Special Course

The Department of Law and Economics provides lectures about both fields of law and economics. Our educational purpose is to study society from both perspectives.

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

We expect students to gain the basic knowledge of law and economics, to apply it, and to acquire the ability to analyze situations, formulate policies, and solve problems.



https://www.hobun.shimane-u.ac.jp/houkei/



Department of Socio-Cultural Studies

- Contemporary Society Course
- History and Archaeology Course

This department offers two courses to students who are interested in socio-cultural studies. In the Contemporary Society Course, 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 the History and Archaeology Course, there are five fields: Japanese history, Asian history, European history, contemporary history, and archaeology. Students have the opportunity to study history and archaeology from a broad perspective and deepen their understanding of theoretical studies through field research and excavation.



https://www.hobun.shimane-u.ac.jp/shakaibunka/



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 six study areas. Five of them explore literature, linguistics, and the colorful history of the individual languages—Japanese, Chinese, English, German and French. Some texts are held in scrolls and others are found in varying forms of manuscripts ranging in time periods from the 16th century to the modern 21st century. In addition, the area of Philosophy, Art and Cultural Relations investigates various cultural phenomena that intertwine and are interpreted through time and intercultural communication. Each area guides stu-



dents to learn research methods and be better thinkers and communicators in the community.

https://www.hobun.shimane-u.ac.jp/gengobunka/





Faculty of Education



Fostering Professional Teachers Through Experience

The Faculty of Education at Shimane University is the only department in the San'in Region that is exclusively dedicated to teacher education. We see ourselves as pioneers of education reformation in the 21st century and take initiatives in solving various educational problems in the local communities. We foster professional teachers with great passion and profound expertise to handle practical problems at school.

Characteristics of the Curriculum and Research

In our teacher training curriculum, a great emphasis is put on hands-on learning with the 1,000-Hour Experiential Program, as well as academic course work that develops basic scholastic abilities. This is based on our belief that prospective teachers must be equipped with practical experience with which they can compare their performance with the educational theories mastered in class.





1,000-Hour Experiential Program

It is difficult to learn how teachers work with children and parents simply by studying textbooks. The program immerses students in hands-on experiences where they meet and talk with people, especially with children from the communities. This special program consists of two subprograms: the "Basic Experiencial Program," which puts students in direct contact with children in various environments and the "Practical Education Program," where students practice teaching at school and develop basic skills in clinical psychology, including counseling.

Center for Research on Teacher Education

This center is in charge of managing the teacher training curriculum for students in departments other than education and takes care of their practice teaching and care work experience. It also provides information on teacher recruitment examinations and organizes various seminars targeted at both prospective and in-service teachers. Students can freely use its working space for studying and communicating with others who have the same goal of becoming teachers.

Center for Educational Support

We support the following three programs: the 1,000-Hour Experiential Program, the Profile Sheet System and the Mirai Kyousi Juku Program.

① 1,000-Hour Experiential Program

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: the "Basic Experiencial Program," which puts students in direct contact with children in various environments, and the "Practical Education Program," where students practice teaching at school and develop and enhance basic skills in clinical psychology, including counseling.

Center for Faculty Development Strategies

This center is the organization responsible for the development of the Faculty of Education through reviewing, evaluating, and improving educational programs. It is aimed at evaluating, devising, and improving all the subjects of the Faculty of Education and its unique educational activities. It also plays the role of utilizing various data for educational improvement.





2 Portfolio System for Students' Study

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

③ Program for Prospective Teachers, Mirai Kyousi Juku Program

This program is designed for students who will take the teacher recruitment examination. We hold seminars on self-analysis, self-appeal, preparation for interviews, and simulated lessons. Through the content of the seminar, the students deepen their thoughts on education and the ideal teacher.





Faculty of Human Sciences



The Faculty of Human Sciences, founded in 2017, aims for the fundamental understanding of human beings and applies that knowledge to people, particularly in the local community. The mission of the faculty is to construct a society where people live by their own values. The multidisciplinary academic staff tackle issues across various research fields: psychology, social welfare, and health sciences. Our educational programs enable students to comprehensively understand mental, physical, and social aspects of human life. To acquire both practical and scientific attitudes, students are given opportunities to practice in local communities from their first year to their fourth year and integrate these experiences with scientific thoughts and theories. Interactive Presentation Meeting (IPM) is a distinctive class in which the students present and discuss with each other their research and experiences, which exceed their specialties. Through coursework, students are encouraged to develop communication skills and address issues in cooperation with people from various backgrounds. Graduates are expected to be specialists in human services, public services, and business with sufficient knowledge and practical interpersonal skills.





Psychology Course

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



http://www.ipc.shimane-u.ac.jp/psych/index.html



Social Welfare Course

Welfare services preserve human dignity. They have become indispensable parts of our lives. Students in this course are expected to work on their intellectual growth in finding causes and natures of social problems in Japanese society through in-depth analysis with the multiple perspectives on helping people. They are also expected to work hard to develop their capacities as professional social workers who can evaluate clients' individual problems, come up with practical solutions using clients' strengths, and make society more people-oriented. The course curriculum is designed to enable students to learn the values, theories and skills of social welfare systematically and to follow the national requirements of certified social workers and psychiatric social workers.



Health Sciences Course

The Health Sciences Course has physical, mental and social aspects. In this course, students learn about physical health scientifically. Students learn from teachers in various fields such as sport sciences, occupational health, environmental health, and the healthcare business related to health garments and foods. We foster students 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 Concept

Education, research, and medical services are conducted to equip students with a sense of culture and ethics from an international viewpoint. This also cultivates in them the spirit of scientific inquiry, alongside medical and nursing sciences, thus supporting community development and the welfare of humanity.

Educational Goal

The educational goal is to produce doctors and nurses with a sense of culture, ethics, and the spirit of scientific inquiry as well as a humanistic orientation that enables them to maintain the utmost respect for human life and treat modern-day challenges professionally.

Outline

Located in Izumo City, our campus consists of almost 350 academic staff and almost 900 undergraduate students. The Faculty of Medicine has 36 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 the School of Nursing lasts 4 years.



School of Medicine

At the School of Medicine, our focus is the cultivation of excellent medical professionals who will pave the way for the medical studies and medical care of tomorrow. Based on a rich sense of humanity, a wide-ranging education, and high moral values, our students develop cooperation, leadership and decision-making skills, in addition to an international perspective and an inquiring mind that stimulates progression into undiscovered research territories.

Course Outline

From the early stages of their university education, students receive a regional-based education that fosters in them a sense of vocation and a strong interest in regional medical care. Also, by receiving education in medical English and being provided with opportunities to study overseas, they can develop an internationally-framed way of thinking. Students also get to train their inquisitive minds by engaging in research experience. Furthermore, tutorial-style education enables students to develop their problem-solving, information-gathering and cooperation skills by participating in small groups. Prior to the start of clinical training, implementation of CBT (Computer-Based Testing) and OSCE (Objective Structured Clinical Examination) tests take place. During their clinical clerkship, students experience real medical care under the supervision of a supervisory doc-

tor, acquiring basic clinical capabilities. Through this clinical clerkship, which is being utilized at approximately seventy medical care facilities and hospitals within the prefecture, in addition to the University Hospital, students learn about primary care and regional medicine.



https://www.med.shimane-u.ac.jp/medicine/



School of Nursing

At the School of Nursing, our focus is on developing a competency in nursing that forms the foundation for progressing through a lifelong career specializing in the nursing profession. Through the acquisition of skills and knowledge, our students develop the capacity to administer nursing care appropriate to varying health conditions, from health maintenance and promotion, to recovery from illness and end-of-life issues. We endeavor to develop in our students a broad perspective and rich sense of humanity that will enable them to cooperate with other specialists in the fields of health, medicine, and welfare.

Course Outline

The first year of nursing studies involves acquiring the knowledge necessary for functioning as a working adult and creating a foundation of knowledge for their nursing studies. Throughout the first and second years, the students study how to practice nursing through the subjects of human understanding, the ethics of caregiving, basic medical knowledge, and scientific evidence. From the second semester of the second year, the focus becomes more specialized, with studies encompassing the areas of adult nursing care, pediatric/maternity/gerontological nursing care, psychiatric nursing, regional care and home nursing. In the third and fourth years, students strengthen their nursing skills and knowledge while training in real nursing care situations. In the fourth year, students complete their comprehensive nursing practicum and research before graduation, which is the culmination of their university studies.





Interdisciplinary Faculty of Science and Engineering

This faculty features an interdisciplinary education and research system that spans many topics, ranging from fundamental science to engineering and providing solutions to the problems of society today. It consists of seven departments: physics and materials science, chemistry, earth science, mathematics, information systems design and data science, mechanical, electrical and electronic engineering and architectural design. Approximately 400 undergraduate students enroll 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 science and technology. After graduation, many students enter higher graduate courses. Graduates also find employment in a wide variety of companies and government agencies.

https://www.riko.shimane-u.ac.jp/eng/

Department of Physics and Materials Science

Fundamental Physics
 Materials Engineering
 Electronic Device Engineering

The Department of Physics and Materials Science invites prospective students with vigorous academic interests in theoretical physics, applied physics, materials science, or in the interrelations of these disciplines. Lectures on modern physics and materials science subfields at fundamental to advanced levels are carefully organized within our curriculum. Our fields of research are diverse: superconductor, semiconductor, functional materials, structural materials, strongly correlated electronic systems, and quantum, computational, and mathematical physics. Individual supervision by our faculty comprised of twenty-four active researchers leads to a bachelor's degree upon completion of the thesis.

https://www.phys.shimane-u.ac.jp/



Bilingual Education Course

This course is available for all the departments of the faculty and accepts international students. Since intensive courses for studying Japanese are placed in the first and second years, the students can soon participate in courses taught in Japanese.



Department of Chemistry

- Basic Chemistry
- Environmental Chemistry
- Functional Materials Chemistry

The Department of Chemistry includes three educational courses specialized in basic chemistry (aiming to undertake broad studies in chemistry), environmental chemistry (aiming to apply the skills in chemistry on environmental preservation), and functional materials chemistry (aiming to specialize in engineering and applied chemistry). All courses contain lectures from a wide range of chemistry for their respective educational purposes. In their final year, students execute their own research study under the guidance of professors. In the end, students efficiently gain the skills and knowledge required to complete their educational course and graduate.

http://www.chem.shimane-u.ac.jp/

Department of Mathematics

• Pure Mathematics • Applied Mathematics

Advanced mathematics provides sophisticated tools and a rigorous framework to analyze and describe various real-life phenomena, and seeks the beauty in numbers. Our department offers two majors: in pure mathematics and in applied mathematics. In the first year, students learn various foundational courses. From the second year, they learn advanced courses, including algebra, geometry, topology, real analysis, complex analysis, statistics, and mathematical modeling. By studying advanced mathematics, students develop a variety of skills, such as logical reasoning, creative thinking, problem solving, knowledge of data analysis, statistics, and outstanding presentation skills.

https://www.math.shimane-u.ac.jp/eng/

Department of Mechanical, Electrical and Electronic Engineering

Mechanical Engineering

Electrical and Electronic 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 two undergraduate courses: Mechanical Engineering Course, and Electrical and Electronic Engineering Course. The department aims to nurture graduates who have prepared for professional engineering in either mechanical engineering or electrical and electronic engineering with fundamental knowledge in both of the fields.

http://www.ecs.shimane-u.ac.jp/index_e.html



Department of Earth Science

- Geoscience
- Geoenvironmental Science
- Geo-disaster Science

The department offers research and education based on geology and some aspects of engineering geology. The main aims are: (1) to encourage systematic understanding of earth materials and resources; (2) to understand the mutual relationships among humanity, society, and the earth from geological viewpoints; and (3) to establish effective methodology to reduce natural disasters based on a wide knowledge of geological processes and environmental changes.

Our education programs are aimed to train specialists in earth sciences and related fields. Field work and practical skills are essential in our undergraduate courses.

https://www.geo.shimane-u.ac.jp/e/



Department of Information Systems Design and Data Science

Data Science

Information Systems Design

Information and computer science and engineering has been indispensable to a wide range of human activities in society. The next stage of the society is said to be a data driven society, where data science is its foundation.

The department aims to provide our students with the knowledge and skills of data science and computer science. The education program consists of two majors: information systems design, and data science. Information systems design includes basics in computer science and engineering along with practical applications. Data science includes statistics and machine learning.

https://www.cis.shimane-u.ac.jp/



Department of Architectural Design

Building Structure/Environmental Engineering
 Architectural Planning and Design

We conduct education and research in the fields of (1) architectural planning; (2) building structure; and (3) architectural environment. Students acquire comprehensive knowledge in these fields during their first two years. At the end of their second year, students can choose to follow one of the following two courses: (A) Building Structure/Environmental Engineering, or (B) Architectural Planning and Design. In the first semester of their third year, students decide the field in which they want to major. The graduation research topic will be decided at the beginning of their fourth year.

http://kenchiku-seisan.jp/





Faculty of Life and Environmental Sciences

The Faculty of Life and Environmental Sciences was established in 1995 and was reorganized in 2018. Our Faculty aims to: 1) understand the mechanisms of biological and ecological systems and develop new technologies related to food and medical sciences; 2) apply scientific outcomes to agriculture, forestry and fisheries; and 3) contribute to local communities, sustainable production systems and environmental preservation and reclamation efforts. The undergraduate course offers a systematic program consisting of lectures, laboratory and field work, and small-group instruction. Laboratory and field work foster problem-solving skills and increase understanding of lectures. Small-group classes improve mutual understanding between students and mentors while facilitating the development of presentation skills. Graduates have found work in private companies, government offices, and high schools. Students who wish to improve their skills can continue their research at the Graduate School of Natural Science and Technology. The faculty currently consists of three departments and one center.



Department of Life Sciences

The Department of Life Sciences aims to foster a fundamental understanding of biology, ecology and life sciences, as well as skills in the fields of drug design, food, medical and agricultural sciences. For second-year students, more specialized courses are offered. The Cell Biology and the Aquatic Biology and Biodiversity Courses offer curricula oriented towards biology and ecology, whereas the Biochemistry and Life Sciences Course and Food and Life Sciences Course offer curricula oriented towards chemistry and biotechnology. In the second half of the third year, students are assigned to laboratories and supervised by professors for their graduation thesis research.

Department of Agricultural and Forest Sciences

While providing a scientific foundation for understanding agriculture and forestry, this department also aims to teach these principles in a broader community context. From the second year, students can hone more specialized skills in the following four courses: the Crop and Livestock Production Course focuses on developments in agricultural technology in crop and livestock production and is based on knowledge of ecosystems, physiology, genetics and soil science. The Horticulture and Plant Science Course focuses on physiology, biotechnology, and genetics-based horticultural plant production, breeding, post-harvest management and utilization. The Agricultural Economics Course covers a wide range of subjects from farm management, marketing, to the development of rural

Department of Environmental and Sustainability Sciences

The philosophy of the Department of Environmental and Sustainability Science is the establishment of a sustainable and harmonized bond between the environment and human society. In order to realize this idea, our department provides an attractive curriculum to develop and apply advanced knowledge of soil, water, resources and environmental organisms. Students in our department are expected to become pioneers in the sustainable management of both natural and urban environments.

Education and Research Center for Biological Resources

Forests, agricultural land and marine areas constitute a natural landscape for human life and supply diverse and rich biological products. The Education and Research Center for Biological Resources has a policy to contribute to science and social education from the point of view that these diverse environments are connected as an integrated system.

The center consists of three sections at different sites: Forest Science (in Sanbe and Hikimi), Agricultural Science (in Honjo and Jinzai), and Marine Biological Science (on Oki Islands). The center offers lectures on the interface between human activities and natural environments and also on the biological connections between forests, agricultural land and marine areas. The lectures and programs are open to students





communities. The Forestry Course provides a wide range of experiences and knowledge in the areas of silviculture, forest management, wood production, informatics and renewable energy.











from every course. The center aims to contribute to our understanding of biodiversity, ecosystems and wildlife mechanisms through the experiences and activities at the field sites.

http://www.ipc.shimane-u.ac.jp/ercbr/index-english.html





Graduate Schools

Graduate School of Human and Social Sciences

 Division of Social Development and Innovation Law and Politics Regional Economics Humanities and Social Sciences Health and Behavioral Sciences
 Division of Clinical Psychology

The Graduate School of Human and Social Sciences has two divisions. The objective of the Division of Social Development and Innovation is to educate students so that they can deepen their specialty in each field concerning human and social problems of contemporary society, approach problems from both human and social sides, tackle problems from a wide interdisciplinary human view point, social and natural sciences, and lead movement to create a futuristic society in which diverse people can respectfully live together in a world of their own. This division consists of four specialization areas. Assignment to a specialization area is done immediately after admission based on research-planning.

The objective of the Division of Clinical Psychology is to educate students so that they can accomplish various tasks: (1) become qualified as certified public psychologists and clinical psychologists; (2) acquire the talent to work as



specialist like counselors based on their ability in assessment, counseling and community care with a high level of skill in clinical psychology; (3) tackle clinical-psychological problems based on a wide interdisciplinary viewpoint; and (4) lead movement to create a futuristic society in which diverse people can respectfully live together in a world of their own.

https://www.hmnsoc.shimane-u.ac.jp/



Graduate School of Education

Department of Professional School for Teacher Education

The Professional School for Teacher Education aims to nurture teaching professionals for elementary school to high school levels to work with contemporary educational issues in society, both at the global and local level. In particular, we focus on educational issues in our region, such as small-sized schools and rural aspects with rich natural resources and active cooperation from local communities. This two-year program values theory as well as practical learning, to develop knowledge and competencies to become school leaders.

The three pillars of our curriculum are school management in the changing society, collaborating with other stakeholders in the community, class design instructions with theory and curriculum development, and support for children with various backgrounds, through differentiated instructions. Teaching practice and research on-site at school are mandatory.

Our students are composed of current teachers assigned from the Shimane and Tottori Prefectural Board of Education, and new college graduates. Graduate students' research projects are based on current issues in each school and area. These projects have contributed to solving problems and improving the situation in the class, school and communities. A Japanese teaching certificate is required for admission and international collaborative research has been developed. Certified international students in other programs are able to audit courses. It is our mission to work with teachers and teachers-to-be to enrich our children's lives and learning.







Graduate School of Medical Research

- Department of Medical Science
- Department of Nursing Science

Master's Course (Medical Science)

The purpose of this course is to educate bachelors of non-medical courses about medicine from the perspective of comprehensive and academic science. Our basic policy is to utilize the research and educational outcomes achieved at the university and in the community to benefit the education and training of our students.

Doctoral Course (Medical Science)

Through the Doctoral Course in Medical Science, students are expected to develop a high level of research competency, abundant knowledge, and a passion for human nature required to lead medical professionals in addition to the skills and expertise required of clinicians.

Doctoral Course (Late Semester Course-Nursing)

The course objective is to develop educational researchers who will benefit an ageing society where people can lead enriching lives, by working towards the improvement of nursing care and by conducting high-standard creative research in nursing for the study of gerontology.



Doctoral Course (Early Semester-Nursing)

The course objective is to cultivate individuals with a rich sense of humanity coupled with a broad perspective and to possess excellent practical nursing skills, creative research capabilities, and the ability to carry out research in nursing studies from a scientific point of view.

https://www.med.shimane-u.ac.jp/english/graduate/



Graduate School of Natural Science and Technology (Master's degree course)

Major in Science and Engineering

- Major in Science of Environmental Systems
- Major in Agricultural and Life Sciences

The Graduate School of Natural Science and Technology, which was recently established in 2018, comprises three majors in which the graduates receive a Master's degree: Science and Engineering, Science of Environmental Systems, and Agricultural and Life Sciences. In addition, each major is connected with a department in the undergraduate school, which enables a continuous education from the undergraduate level.

The graduate school undertakes education and research in a wide range of academic fields including science, engineering and agriculture. The students develop scientific knowledge, presentation skills, a global insight, and the ability to formulate new ideas. The graduates become highly creative innovators, engineers, and researchers who will contribute to the development of science, technology and the creation of a sustainable society and whose comprehensive and interdisciplinary viewpoints will be of benefit to those in the local community.

In the Science and Engineering Major, students acquire the basic knowledge mathematics, physics, and informatics. Based on this knowledge, they will contribute to the development of mathematical science, physics, information science, mechanical engineering, electrical and electronic engineering, and materials engineering as advanced engineers and

Graduate School of Natural Science and Technology (Doctoral degree course)

Major in Science and Engineering for Innovation

A new doctoral degree program in the Graduate School of Natural Science and Technology has recently been established as part of the restructuring of the Interdisciplinary Graduate School of Science and Engineering.

Our doctoral degree program promotes interdisciplinary education among research fields in order to develop researchers who can open up new fields with a broad perspective. Therefore, students can study in both biological and non-biological fields.

Our doctoral degree program is organized into two courses: the Science and Engineering Course, and the Science of Natural Environment Systems Course. The Science and Engineering course promotes research and education in mathematics, informatics, physics, materials engineering, mechanical engineering, and electrical and electronic engineering. The Science of Natural Environment Systems Course promotes research and education in a wide range of topics, from studying the earth itself to the lives which form in natural environment systems.

The doctoral degree program of the Graduate School of Natural Science and Technology offers three specialist programs: (1) the Materials Engineering Special Program, for students involved in the research of advanced materials in the



researchers with an international viewpoint.

In the Science of Environmental Systems Major, students acquire the basic knowledge in earth science, environmental and sustainability sciences, chemistry, and architecture. Based on this knowledge, they will contribute to the creation of rich and environmentally friendly society as advanced engineers and researchers with practical skills, creativity, and an international viewpoint.

In the Agricultural and Life Sciences Major, students acquire the basic knowledge of agriculture and life sciences. Based on this knowledge, they will contribute to the development of life science and utilization of agricultural and forest products as advanced engineers and researchers with self-reliant problem-solving abilities, rich humanity, and international viewpoints.







Next Generation Tatara Co-Creation Centre of Shimane University; (2) the Collaborative Program of Medicine, Science, Engineering and Agriculture, for students with backgrounds in science, engineering, or agriculture, who have an interest in the medical applications of physics, chemistry, biology, mathematics, informatics, agriculture or various fields of engineering; and (3) the Special Program in Earth Science and Geo-environmental Science, for students from Asia and the trans-Pacific, which provides vigorous leading-edge academic training in fields including geoscience, development and conservation of earth resources, solutions for environmental problems, prediction and prevention of natural disasters, and the sustainable long-term evolution of our society.

https://www.natural.shimane-u.ac.jp/doctor/



Admission Information



Admission Schedule and Other Programs

https://www.shimane-u.ac.jp/en/study/future_students/admission_information.html



Facilities, Research Institutes & Organizations **Facilities** University Library at Matsue and Izumo Shimane University Hospital (Izumo) https://www.med.shimane-u.ac.jp/hospital/English/ https://www.lib.shimane-u.ac.jp/english/ **Research Institutes Centers and Organizations** International Joint Research Institute of **Health Service Center** Shimane University and Ningxia University https://shimane-u.health.wdeco.jp/ http://www.ningxia.shimane-u.ac.jp/index.html https://www.med.shimane-u.ac.jp/health/ Estuary Research Center (EsRec) https://www.esrec.shimane-u.ac.jp/eng/ Matsue Campus Izumo Campus **Center for Natural Disaster Reduction Research and Education Student Support Center** https://ndrre.shimane-u.ac.jp/english.html http://gakushien.shimane-u.ac.jp/ Head Office for Regional Collaboration and **International Center** Innovation https://kokusai.shimane-u.ac.jp/english/ https://www.reg-collab.shimane-u.ac.jp/ **Center for Foreign Language** Next Generation Tatara Co-Creation Centre Education 部出 https://tatara.shimane-u.ac.jp/en/ https://cfle.shimane-u.ac.jp/english/



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International Center

URL:https://kokusai.shimane-u.ac.jp/english/

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