

Outline of Master program in Shimane University

1. Basic Information

Graduate School (URL of the information for applicants to JICA Development Studies Program in Shimane Univ.)	Graduate School of Natural Science and Technology https://www.natural.shimane-u.ac.jp/jica/	
Program Name	The English – Medium Program for International Students	
Degrees	Master of Life and Environmental Sciences	
Credits and years needed for graduation	30 credits, 2 years (Graduate School Student)	
Classes taught in English	Class: All classes are taught in English	
Message for Applicants	Shimane University's Charter (Shimane University's goals are:) <ol style="list-style-type: none"> 1. To foster the development of individuals with initiative who possess a high degree of expertise and human compassion. 2. To promote a high international standard of research based on unique, local issues. 3. To promote social service programs that can solve local problems. 4. To promote international exchange with Asian and other foreign countries. 5. To respect academic freedom and human rights and promote public trust in the university. 	
Additional Information		Note
Japanese Language		
Necessity of Japanese language	Necessary in everyday life	Level: Beginner's level Student can attend Japanese language class. ※ No prior knowledge of Japanese is required, but participants are expected to study Japanese after coming to Japan.
Foreign Students	218 international students from China, Vietnam, Myanmar,	

Bangladesh, Afghanistan, Tunisia, Benin, Nigeria etc		
Facility Information		
(1) Dormitory	Available	The rooms are limited. If our dormitory is full, students will live in a private apartment.
(2) Prayers room or Mosque		There is a Mosque near university and Muslim community in town.
(3) Halal food available in cafeteria	Available	
Others		
(1) Tutor system	Available	Tutor will support foreign students to start their study and everyday life in Shimane University.
(2) English counseling	Available	

2. Features of University

Shimane University was founded in 1949 as a national university with two faculties: the Faculty of Literature and Science which was made up of Matsue Higher School (originally founded in 1920), and the Faculty of Education which was made up of Shimane General School



(originally founded in 1875), Shimane General School for Youth (originally founded in 1933). Shimane and Shimane Medical Universities amalgamated on October 1st, 2003. The new Shimane University has two main campuses, and consists of six faculties. Law and Literature, Education, Human Sciences, Life and Environmental Science, and the Interdisciplinary Faculty of Science and Engineering are housed at the Matsue campus, and the Faculty of Medicine is based at the Izumo campus. The combined Shimane University now has 2,041 staffs and 5,901 students, including some 218 international students as of May 1st, 2019.

Shimane University now has five graduate schools (Humanities and Social Science, Education, Medicine, Science and Engineering, and Natural Science and Technology), and three doctorate graduate schools (Medicine, the Interdisciplinary Faculty of Science and Engineering, and the United Graduate School of Agricultural Science). In addition, the university also operates several other research centers, facilities and hospitals.

In addition to undergraduate, graduate, and postgraduate students, there are several other categories of students comprising auditors, special auditors, and research students.

Since its establishment, Shimane University has endeavored to cultivate persons of ability who will contribute to the development of society. With this in mind and its historical

background, the university aspires to be an international university opened to the South-East Asia and Pacific Rim regions. Shimane University has Academic Exchange Agreements with 78 universities in 24 countries.

3. Features of the Program and Curriculum in each Field of Study

Master course students will select one course out of the following 3 courses listed below depending on their study themes / consultation with academic supervisor. Besides, students will belong to the laboratory of the supervisor and conduct a research to write a thesis.

Environmental Science and Technology course

Biological Science and Biotechnology course

Agriculture and Forest Science course

List of Class Subjects and Instructors

(Student can select any subjects for the selective ones)

Class subject	Credit	Teacher
Compulsory subjects		
Thesis Seminar I	1	Supervisors
Thesis Seminar II	1	Supervisors
Thesis Seminar III	1	Supervisors
Thesis Seminar IV	1	Supervisors
Thesis Research I	2	Supervisors
Thesis Research II	2	Supervisors
Thesis Research III	2	Supervisors
Thesis Research IV	2	Supervisors
Fundamentals of Natural Science and Technology	2	omnibus
Selective subjects		
Advanced Water Resources Use System Engineering	2	Prof. I.Kita
Advanced Nonpoint Sources and Hydrology	2	Prof. I.Takeda
Modeling Approaches for Advanced Watershed Management	2	Prof.H.Yajima
Fluid Dynamics on Land Surface and in Soil	2	Assis. Prof. H.Sato
Advanced Structural Analysis and Design	2	Assoc.Prof. M.Ishii
Electricity and Magnetism in Biological Systems	2	Prof. A.Yano
Soil Microbiology	2	Prof. Kazuhito Itoh
Advanced Forest Ecology	2	Assoc. Prof. H.Kawaguchi, Assoc. Prof. M.Kubo, Assis. R.Fujimaki
Advanced Plant Pathology	2	Prof. M.Ueno
Environmental Microbiology	2	Assis. Prof. S.Hayashi
Insect Ecology	2	Prof. R.Miyanaga, Assoc.Prof. Y.Izumi
Advanced Environmental Technology and Engineering	2	Assis. Prof. A.Hashiguchi
Fish Ecology	2	Assoc.Prof. M.Horinouchi
Marine Ecology	2	Assoc.Prof. K.Kurata
Soil Science	2	Prof. T.Masunaga, Assos. Prof. K.Sato
Soil Ecological Engineering	2	Prof. T.Masunaga, Assos. Prof. K.Sato
Aquatic Ecological Engineering	2	Prof. K.Yamaguchi
Advanced Environmental Eco-Engineering	2	Assoc.Prof. T.Kuwabara

Biology of Skin	2	Prof. T.Matsuzaki
Theoretical Ecology	2	Assoc. Prof. A.Mougi
Biodiversity of Plants	2	Prof. S.-J.Lin, Assis.Prof.K.Sugai
Methodology of Plant Transformation	2	Prof. K.Akama
Hepatic Phylogenesis - Diversity and Evolution	2	
Developmental Biology	2	Prof. A.Nishikawa, Assis.Prof. Y.Yamaguchi
Biology of Endosymbiosis	2	Prof. K.Akama
Behavioral Ecology	2	Assis. Prof. A.Mougi
Biology of Reproduction	2	Prof. N.Hirohashi
Genetic Engineering	2	Prof. M.Kawamukai
Advanced Molecular Biology	2	Assoc. Prof. T.Kaino
Advanced Plant Molecular Genetics	2	Prof. T.Nakagawa, Assis.Prof. T.Hachiya
Advanced Biophysical Chemistry	2	Prof. T.Yamamoto
Molecular Cell Biology and Biochemistry for Food and Health Science	2	Assoc.Prof. M.Jisaka
Pathophysiology	2	Assoc.Prof. H.Shimizu
Plant Molecular Physiology	2	Prof. T. Ishikawa
Plant Stress Biology	2	Assoc.Prof. T.Maruta
Molecular Recognition	2	Assoc.Prof. K.Yoshikiyo
Advance Organic Synthesis	2	
Methodological Principle of Molecular Biology	2	Assoc.Prof. T.Akihiro, Assoc.Prof. Y.Matsuo, Assoc.Prof. K.Nishimura
Marine Ecogenetics	2	Prof. F.Aranishi
Production of Vegetables Grown in Hydroponics	2	Prof. T.Asao
Functional Morphology in Rice	2	Assoc.Prof. K.Kobayasi
Advanced Plant Breeding	2	Prof. N.Kobayashi
Conservation and Management of Plant Genetic Resources	2	Prof. T.Matsumoto
Biochemistry of Soil Fertility	2	Prof. S.Matsumoto
Plant Molecular Breeding	2	Assoc.Prof. A.Nakatsuka
Advanced Livestock Production	2	Prof. T.Ichinohe, Assis.Prof.S-H. Song
Horticultural Crop Physiology	2	Assoc. Prof. T. Esumi
Advanced Technology for Protected Horticulture	2	Assis. Prof. H. Tanaka
Plant Production Physiology	2	Assoc. Prof. M. Kadowaki ,Assis. Prof. S. Shiro
Advanced Forest Policy and Utilization	2	Prof. K. Ito, Assis. Prof. E. Takahashi
Agricultural and Regional Economics	2	Prof. N. Inoue, Assoc. Prof. N. Yasunaga
Advanced Rural Planning	2	Assoc. Prof. K. Akazawa, Assoc. Prof. Y. Mori
Advanced Development Economics	2	
Total credit required : 30		

During the period of research students, the students will study fundamental subjects, research backgrounds and laboratory skills necessary as preparation for Master course study.

4. Academic Schedule

Entrance exam for Graduate school (fall): June

(in some special case, it may be in Dec.- Jan.)

The Commencement for fall entrance students: October

(arrival to Japan will in the end of September)

The midterm presentation: about a year after the entrance

The thesis submission and final defense presentation:

January to February in the 2nd year for October entrance students.



Inside the Campus



Practical work on the farm

*Matue City is well known as the Lake Shinji and Horikawa River, by which the city has developed for a long time.

