

Academic Year of 2022

Master's Program

Department of Dryland Science

Graduate School of Sustainability Science, Tottori University

Application Guidelines

for

Entrance Examination for October Admission

-Pre-arrival Admission-

Application Period	Friday, April 1, 2022 ~ Wednesday, April 20, 2022
Examination Period	Friday, May 13, 2022 ~ Friday, May 27, 2022
Announcement of Results	11 a.m. Tuesday, July 5, 2022

Master's Program

Department of Dryland Science

Graduate School of Sustainability Science, Tottori University

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**Academic Year of 2022 Master's Program Department of Dryland Science
Graduate School of Sustainability Science, Tottori University**

**Entrance Examination for October Admission -Pre-arrival Admission-
Application Requirements**

Graduate School of Sustainability Science is conducting an Entrance Examination for October Admission -Pre-arrival Admission- to recruit creative, independent and enthusiastic students from both internal and external institutions and train them to be excellent scientists. This entrance exam is open for international students.

1. Department, Courses, Positions Available, Field of Education and Research

Department	Course	Positions Available	Field of Education and Research
Department of Dryland Science	Special Program in English	A few	See "List of Fields of Education and Research" on page 8.

The Special Program in English will offer the whole course work in English to develop scientists with advanced skills to carry out projects that can contribute to the international society.

2. Qualification Requirements

Applicants must fulfill one of the criteria given from (1) to (10) below.

- (1) Graduated or expected to graduate from a four-year university program on or before the end of September 2022.
- (2) Awarded or expected to be awarded a bachelor's degree by the National Institution for Academic Degrees and Quality Enhancement of Higher Education following the School Education Law Article 104 Clause 7 on or before the end of September 2022.
- (3) Have finished or expected to finish 16 years of formal education in a foreign country on or before the end of September 2022.
- (4) Have finished or expected to finish 16 years of formal education of a foreign country on or before the end of September 2022 by completing Correspondence Education courses provided by the country in question while residing in Japan.
- (5) Have finished or expected to complete a program provided by an educational institution which owns degree programs offered in foreign countries (only the program that grants the diploma for 16 years of formal education in the said foreign country) which is also recognized as a formal educational institution in the said country while authorized by the Minister of Education, Culture, Sports, Science and Technology on or before the end of September 2022.
- (6) Have been awarded or expected to be awarded a degree equivalent to bachelor's by completing program duration of which is more than 3 years (includes the case of finishing 16 years of formal education of a foreign country by completing Correspondence Education courses provided by the country in question while residing in Japan, and the case of obtaining degree specified by (5) when graduating from an educational institution

recognized by the foreign country in question) at a university or other form of school in a foreign country (limited to the institutions with their educational quality such as education and research activities recognized by the evaluators approved by the government of the foreign country in question or other relevant authorities, or institutions specifically recognized by its equivalent by the Minister of Education, Culture, Sports, Science and Technology) on or before the end of September 2022.

- (7) Have finished upper-level course of a specialized training college (limited to the course duration of which is more than 4 years and meets other requirements provided by the Minister of Education, Culture, Sports, Science and Technology), which is specially approved by the Minister of Education, Culture, Sports, Science and Technology, after the date provided by the Minister of Education, Culture, Sports, Science and Technology or be expected to finish above mentioned course before the end of September 2022.
- (8) Specially recommended by the Minister of Education, Culture, Sports, Science and Technology (Public notice Item 5 by Ministry of Education in 1953)
- (9) Reach or have reached 22 years old on or before September 30th, 2022 whose qualification is recognized to be equivalent or higher than those who graduated from a four-year university program by individual qualification evaluation at the Graduate School of Sustainability Science.
- (10) Admitted to a graduate school by the School Education Law Article 102 Clause 2, and one's academic performance is recognized to be suitable for the Graduate School of Sustainability Science.

Applicants who are applying under (9) or (10) category must contact the Academic Affairs Section of Faculty of Agriculture, Tottori University through the prospective primary supervisor and get an application form for qualification evaluation which should be submitted no later than Monday, February 28, 2022. The result of evaluation will be announced by Tuesday, March 22, 2022.

3. Application

(1) Period

Applications must be submitted from Friday, April 1, 2022 to Wednesday, April 20, 2022.

(2) Application Procedures

Applicants must fill and submit the documents listed in the table below to the prospective primary supervisor.

① Application Form	Use provided form
② Manuscript of Oral Examination Presentation	Using the attached format as a reference, describe the research to be conducted after admission utilizing what you've learned previously in 1 page on A4 paper. Manuscript must be prepared in English.
③ Research Proposal	Applicants must submit detailed research plans to be conducted at Department of Dryland Science. It must be written in English. (Format not specified) (A4 size paper, 4 - 6 pages)
④ Academic Transcript and Letter of Recommendation	Applicants must submit an academic transcript issued by the head of last educational institution attended. Must be sealed in an envelope. In addition to that, foreign applicants must submit a letter of recommendation which can be prepared by an academic supervisor, immediate supervisor of currently affiliated research institution or current employer.
⑤ TOEIC or TOEFL Score etc.	Applicants must submit the original score certificate of TOEIC, TOEFL, IELTS or PTE Academic obtained within 2 years prior to the application submission. Foreign applicants who graduated from universities of countries that use English as official language who are planning to stay in Japan with visa status of "student") are not required to submit this. Instead, a document that verifies completion of university education in English issued by the president or its equivalent authority of the university should be submitted. The certificate will be returned.
⑥ Certificate of (expected) Graduation	The certificate must be issued by an authorized person of applicant's degree granting institute.
⑦ Examination Fee	30,000 Japanese Yen
⑧ Certificate of Degree Award or Certificate of Expected Degree Award	Only applicants who are applying under (2) category are required to submit this document. Applicants expected to complete junior colleges or advanced courses of technical colleges must submit the certificate of expected degree award and documents to verify application for bachelor's degree conferment.
⑨ Passport etc. (Foreign Applicants Only)	Foreign applicants must submit a copy of passport.
⑩ Certificate of Health	Applicants must submit a certificate of health completed by a medical doctor within six months of application date.

4. Entrance Examination

Applicants will be evaluated based on document screening and internet-based oral examination.

(1) Document Screening

Based on the original score certificate of TOEIC, TOEFL, IELTS or PTE Academic and academic transcripts, language proficiency and basic knowledge will be evaluated.

(2) Internet-based oral examination

Applicants must participate in the Internet-based interview. The interview will be conducted during the period of Friday, May 13, 2022 to Friday, May 27, 2022.

5. Applicants with Physical Disability

Applicants with physical disability should submit a document (formats not specified) stating following along with a doctor's note or copy of physical disability certificate to the Academic Affairs Section of Faculty of Agriculture through the prospective primary supervisor by Monday, February 28, 2022 to discuss possibly required assistance/accommodations at examination.

(1) Applicant's name and address (Phone number should be provided as well)

(2) Desired field of education/research

(3) Graduated university, faculty and department etc.

(4) Type and level of disability

(5) Accommodations necessary for examination

(6) Accommodations necessary for course completion

(7) Accommodations made at the graduated university

(8) Description of daily life

6. Announcement of Examination Result

11 a.m. Tuesday, July 5, 2022

The original copy of the letter of acceptance will be sent out to accepted applicants via mail. The accepted applicants' number will be also posted on Tottori University's website: <https://www.admissions.adm.tottori-u.ac.jp/> around 11 a.m. No telephone inquiry will be accepted.

7. Admission Process

Instructions for admission process will be individually notified to accepted applicants.

(1) Processing Documents etc.

- Dossier, photograph mount for student ID etc.

(2) Entrance Fee 282,000 Japanese Yen (Tentative)

(3) Tuition Fees 535,800 Japanese Yen / year [First Semester: 267,900 Yen, Second Semester: 267,900 Yen] (Tentative)

- Tuition Fees must be paid in November (First Semester) and May (Second Semester)

- Payment instructions will be provided to accepted applicants

(NOTES) a. Once the payment is completed, the entrance fee will not be refunded under any conditions.

b. Students who wish to get an entrance/tuition fees exemption (or collection postponement)

should not submit the entrance/ tuition fees upon admission process.

c. Above stated entrance/tuition fees amounts are tentative and may change at any time. Students will be asked to pay the revised amount while taking courses at Tottori University.

(4) Personal Accident Insurance for Students Pursuing Education and Research

i) Gakkensai : This is an accident insurance which covers injuries occurred as a result of a sudden accident while insured students are participating in regular or extracurricular activities, being on campus, or commuting to school.

Insurance premiums (2 years): 1,750 yen

Department in charge: Health Science Center (E-mail: hokekan-jimu@ml.adm.tottori-u.ac.jp)

ii) Insurance for International Students (Type E) : This insurance covers (1) Personal compensation responsibility : in case of causing injury to another person or damaging the property of others, (2) Rescuer expenses, etc. : compensate for the payment of transportation and accommodation expenses incase family members come to Japan to support the insured if he/she is hospitalized due to injury or illness for more than 3 days. (3) Movable property for daily use : in case of incurs a damage because his household goods are subject to fire or robbery in Japan. (4) Tenant Liability : in case of causing damage to a rented room due to an accident involving fire or water leakage in Japan. (Unlike "Gakkensai", there is no restriction on time and place)

Insurance amount (2 years): 6,470 yen

Department in charge: International Affairs Division

(Tel (0857)31-5056, E-mail: kokuko-gaku@ml.adm.tottori-u.ac.jp)

(5) Place of Admission Process

4-101 Koyama-cho Minami, Tottori

Academic Affairs Section of Faculty of Agriculture, Tottori University

8. Extended Course System

This system provides students with fulltime occupation a chance to plan and complete the course within certain period (maximum of 4 years) beyond average period required for course completion (2 years).

Same amount paid for two-year course tuition will split into 3 (or 4) according to the plan.

Applicants who wish to use this system should contact the Academic Affairs Section of Faculty of Agriculture upon admission process.

9. Entrance Fee Exemption (deferment) and Tuition Exemption

Entrance or tuition fees (full or half amount) can be exempted if students meet one of the following conditions and university sees the extreme difficulty of entrance or tuition fees payment. Selection will be based on the application.

(1) Extreme difficulty paying for entrance or tuition fees although academic performance is excellent.

(2) Within one year prior to the admission, defrayer of academic expenses has deceased, or either self or defrayer of academic expenses got affected by natural disasters.

(3) Meets condition (2) and President of Tottori University recognizes the needs of waive in provided condition.

For more details, please contact Scholarship Section of Livelihood Support Office, Student Affairs

Department. (E-mail st-syougaku@ml.adm.tottori-u.ac.jp)

10. Student Loan of Entrance Fee and Tuition Fees (Japan Finance Corporation)

This is an official financing facility of the expenses cost upon and during the enrollment at Tottori University.

In principle, applicants are students' parents or relatives who mainly make their living and meet the criteria. Students can receive less than 3,500,000 yen with a fixed interest rate and pay back only interest during the period of his/her enrollment at Tottori University. For more details, please contact call center for student loan. (TEL (0570) 008656)

11. Scholarship

Students who cannot afford to pay and are recognized as academically and personally outstanding, and healthy may be eligible to receive a scholarship. Selection will be based on the application.

For more details, please contact Scholarship Section of Livelihood Support Office, Student Affairs Department. (E-mail st-syougaku@ml.adm.tottori-u.ac.jp)

12. Others

Please contact the prospective primary supervisor for any inquiries related to application, examination and admission.

Oral Examination Manuscript Format

A4 (210 mm × 297 mm)

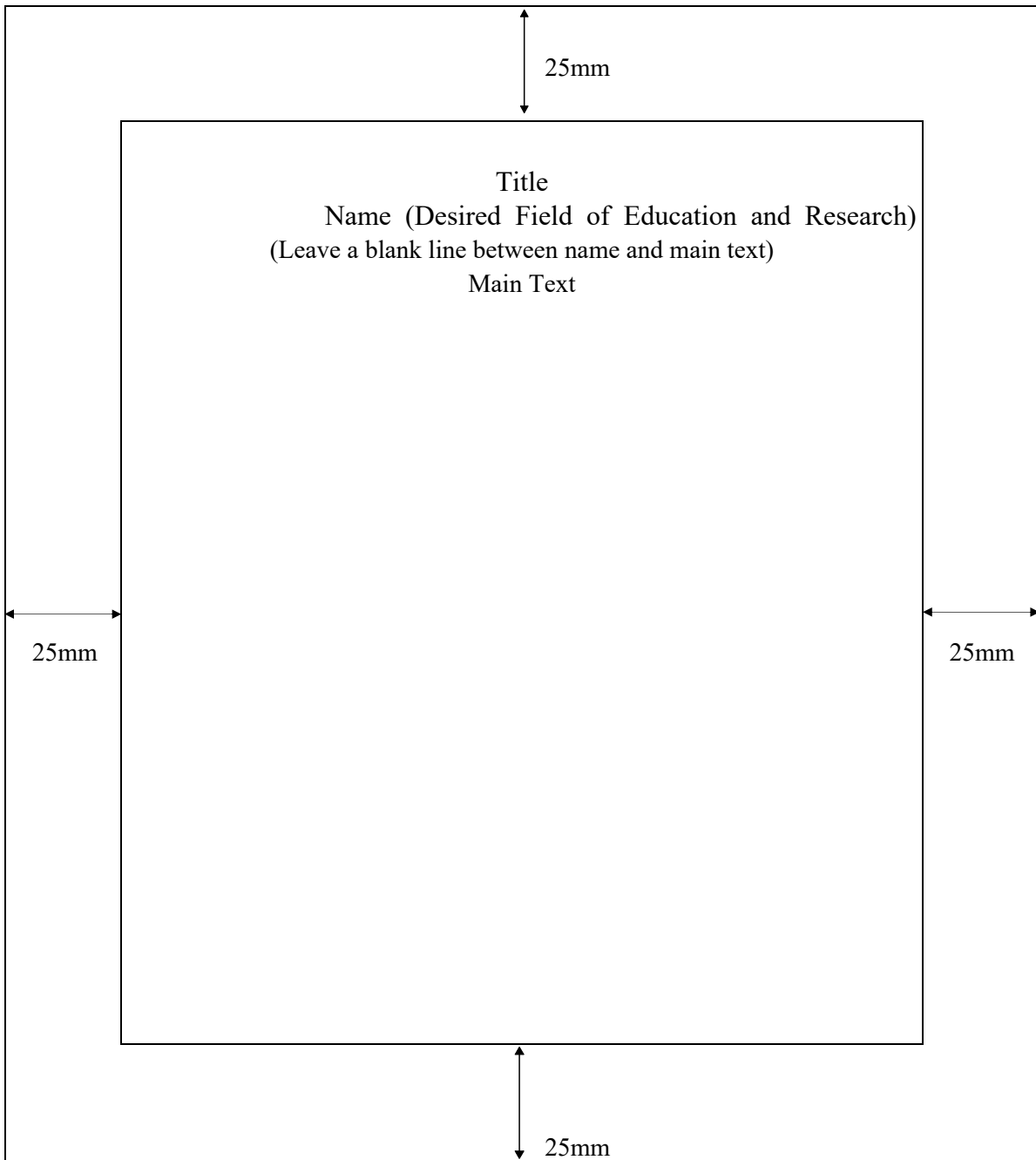
Font size etc.:

Title, name and desired field of education and research: 12 point

Main text: 11 or 12 point

Title should be centered, and name (desired field of education and research) should be aligned to the right.

Based on your knowledge, describe the research you'd like to conduct at the graduate school including research plan, background, and methods etc. You may include tables and figures (black and white). Manuscript must be typed with word processor.



List of Fields of Education and Research

Department	Course	Field of Education and Research	Faculty Member	Keyword 1	Keyword 2	Keyword 3	Keyword 4	Keyword 5
Department of Dryland Science	General Program/Special Program in English	Sustainable Land Management	Nigussie Haregeweyn AYEHU	Land degradation	Sustainable land management	Integrated watershed management	Spatial analysis	Hydrologic modeling
		Soil and Water Management	Koji INOSAKO	Restoration of farm land	Soil-Plant-Atmospheric continuum system	Irrigation and drainage	Desalinization	Environmental biophysics
		Dryland Environmental Resources	Tsuneyoshi ENDO	Soil resources	Irrigated agriculture	Behavior of salts	Soil salinization	Environmental remediation
		Construction and Management Engineering of Facility in Rural Regions	Hidehiko OGATA	Irrigation and drainage facilities	Farm road	Functional diagnosis	Stock management	Frost damage
		Dryland Climatology	Yasunori KUROSAKI	Climatology & meteorology	Aeolian dust	Wind erosion	Climatic variation	Desertification
		Agricultural Water Use and Management	Katsuyuki SHIMIZU	Agricultural water use	Field hydrology	Assessment of water delivery performance	Soil salinization	Micro hydropower
		Molecular Breeding	Hisashi TSUJIMOTO	Wheat	Stress tolerance improvement	Germplasm enhancement	Chromosome engineering	Food shortage
		Conservation Informatics	Atsushi TSUNEKAWA	Environmental evaluation and modeling	Remote sensing	GIS	Regional environmental planning	Sustainable Land Management
		Climate Risk Management	Mitsuru TSUBO	Agrometeorology	Micrometeorology	Crop model	Drought	Climate-smart agriculture
		Dryland Salinity and Landscape Restoration	Kristina TODERICH	Biosaline Agriculture	Global drylands pastoralism	Phytoremediation	Crops-Livestock interaction	Food and Gender
		Crop Production in Drylands	Eiji NISHIHARA	Medicinal plants	Allelopathy	Mitigation of replant problem	LED light in plant factory	Biochar
		Irrigation and Drainage in Drylands	Haruyuki FUJIMAKI	Water-saving irrigation	Water harvesting	Leaching	Salinization	Erosion
		Agricultural Development Studies	Kumi YASUNOBU	Area studies	Farm management studies	Technology diffusion	Rural development	Common resource management
		Plant Nutrition	Satoshi YAMADA	Salinity	Mineral absorption	Crop quality	Aquaponics	Water saving
		Revegetation Science in Drylands	Norikazu YAMANAKA	Revegetation in arid areas	Ecosystem restoration	Forest ecology	Drought and salt tolerance of woody plants	Water relations of plants
		Environmental soil science	Sadahiro YAMAMOTO	Conservation oriented agriculture	Salt affected soils	Soil quality assesment	Soil organic matter	Soil formation and classification
		Plant Eco-Physiology	Ping AN	Environmental stresses	Tolerance Mechanisms	Dry lands agriculture	Saline soils	Halophytes
		Dryland Health and Medicine	Shinji OTANI	Global health	Environmental medicine	Travel medicine	Infectious disease	Noncommunicable diseases
		Dryland Restoration and Conservation Ecology	Toshihiko KINUGASA	Arid and semi-arid grassland	Global environmental change	Human disturbance	Secondary succession	Plant matter production
		Meteorology in Drylands	Reiji KIMURA	Climatology-Meteorology	Land atmosphere interaction	Atmospheric boundary layer	Satellite	Hazard map
		Land Environment and Conservation	Tadaami SAITO	Soil water and solute movement	Interaction among soil, water and vegetation	Soil erosion	Environmental measurement techniques	UAV(Drone)
		Renewable Energy Engineering	Kotaro TAGAWA	Solar and wind energy	Energy generation and conversion	Evaluation of energy system	Desalination	Heat and mass transfer
		Microbiology in Drylands	Takeshi TANIGUCHI	Microbial ecology	Ecosystem restoration	Use of rhizosphere microorganisms	Metagenome	Mycorrhizal fungi
		Facilities and Environmental Materials	Masahiro HYODO	Buried pipe	Evaluation of the residual strength	Environmental materials	Restoration of aquatic environment	Industrial by-product
		Applied Meteorology in Drylands	Shaoxiu MA	Land surface modeling	Climate modeling	Big Data analysis	Climate change	Remote sensing
		Theoretical Physics	Natsumi IKENO	Relativistic quantum mechanics	Strong interaction	Meson	Nucleus	Numerical calculation
		Plant Cytogenetics	Takayoshi ISHII	Germplasm enhancement	Wide hybridization	Chromosome elimination	Genome editing (CRISPR)	New breeding techniques (NBT)
Terrestrial Carbon Cycle	Munemasa TERAMOTO	Global warming	Soil respiration	Carbon cycle	Terrestrial ecosystems	Greenhouse gas		
Agricultural Extension Studies	Asres Elias BAYSA	Agricultural extension studies	Gender and development	Agricultural economics	Rural development	Africa		

Academic Year of 2022
Master's Program Department of Dryland Science
Graduate School of Sustainability Science, Tottori University
Entrance Examination for October Admission -Pre-arrival Admission-

Application Form		Examinee's Number ※		
Department	Department of Dryland Science	Course	Special Program in English	
Field of Education/Research				
Name	ENG	<u>Photo</u> Attach a photo of upper body part taken from the front, without hat/caps. Must be taken within 3 months. L : 4 cm W : 3 cm		
	JPN			
Sex	<input type="checkbox"/> Male · <input type="checkbox"/> Female			
Date of Birth	Year			Month
Qualification	University			
	Faculty (School) of		Department of	
	YYYY	MM		
	<input type="checkbox"/> Graduation / <input type="checkbox"/> Expected Graduation / <input type="checkbox"/> Completion / <input type="checkbox"/> Expected Completion			
Current Address	Zip Code	TEL		
Result Notification Address (List only if it differs from the current address)	Zip Code	TEL		

- Notes
1. Circle on the items that apply
 2. Fill all column except for the ones marked with “※”
 3. **All applicants must communicate with their prospective primary supervisor of desired Field of Education and Research before submitting the application form.**

Name of Examinee			Examinee's Number	※
Emergency Contact Information	Name	ENG	Relationship to Applicant	
		JPN <small>(Required for Japanese people)</small>		
	Address	Zip code	TEL	
<p>Resume</p> <p>All applicants must fill out (High School) and Tertiary Education (Undergraduate) column. Applicants who are applying under (3), (4) or (6) of Qualification Requirements must fill all column including the ones of Primary Education (Elementary School) and Secondary Education (Middle School).</p>				
	Name and Address of School		Period of Attendance	Year and Month of Entrance and Completion
Example	(Name) <i>Tottori Elementary School</i>		6 years	(From) <i>2000.4</i>
	(Location) <i>Tottori City, Tottori, Japan</i>			(To) <i>2006.3</i>
Primary Education (Elementary School)※	(Name)		years	(From)
	(Location)			(To)
Secondary Education (Middle School)※	(Name)		years	(From)
	(Location)			(To)
(High School)	(Name)		years	(From)
	(Location)			(To)
Tertiary Education (Undergraduate)	(Name)		years	(From)
	(Location)			(To)
(Graduate Level)	(Name)		years	(From)
	(Location)			(To)
	(Name)		years	(From)
	(Location)			(To)