



HIROSHIMA UNIVERSITY

Contents

I Admission Policy	4
1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Master's Course)	
2. Admission Policy of each Program	
Programs and Number of Students to be Admitted	8
Outline of Entrance Examination	10
1. Schedule of the Entrance Examination	
2. Application Eligibility	
3. Application Documents and Selection Process	
4. Application Procedure	
5. Examinee's Number and Printing the Examination Card	
6. Result Announcement	
Application Eligibility	12
1. Application Eligibility	
2. Preliminary Evaluation	
3. Application Requirements	
Application Documents and Selection Process	15
Science Programs	16
(Mathematics / Physics / Earth and Planetary Systems Science / Chemistry)	
1. Application Documents	
2. Selection Process	
Engineering Programs & Informatics and Data Science Program	18
Applied Chemistry / Chemical Engineering / Electrical, Systems, and Control Engineering /	

6. Others

Application Fees Exemption for Prospective Students to Enter Hiroshima University 31

The Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to natural science, engineering, and information science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to natural science, engineering, and information science as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Mathematics Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① A strong questing mind for the mathematical truth and an ambition to make a progress in specialized and/or inter-disciplinary research of mathematics;
- ② The will to be engaged in professional occupations such as researchers, educators, and engineers in mathematics areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to mathematics as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Physics Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① The will to obtain state-of-the-art knowledge in areas of physics based on the point of view of researchers on a top international level;
- ② The will to obtain fundamental knowledge in contemporary physics to be engaged in researching jobs, educational jobs, and/or advanced engineering jobs related to areas of physics;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to physics as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Earth and Planetary Systems Science Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for acquiring advanced expertise and research techniques related to the earth and

planetary systems science;

- ② The will to be engaged in professional occupations such as researchers, educators, and engineers in areas of the earth and planetary systems science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for a wide range of intelligence, in addition to a strong curiosity about not only the earth and planetary systems science but also for the other areas; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Chemistry Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① Basic knowledge and ability of comprehension, examination, and presentation regarding the chemistry and an ambition for taking part in the academic and/or inter-disciplinary research;
- ② The will to be engaged in professional occupations such researchers and engineers in chemistry areas;
- ③

The Electrical, Systems, and Control Engineering Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to electrical engineering and systems engineering that constitutes the core of the electrical, systems, and control engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the electrical, systems, and control engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Transportation and Environmental Systems Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas of the transportation system engineering or the environmental system engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the transportation system engineering and the environmental system engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Civil and Environmental Engineering Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to work as a high-level engineer or researcher in areas of civil and environmental engineering including disaster prevention and mitigation engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the civil and environmental engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Informatics and Data Science Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to work as a high-level engineer or researcher in areas of the informatics and data science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the informatics and data science as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Smart Innovation Program seeks students who have the following aspirations and motivation and have a good grounding in relevant subjects:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to the smart material development, the smart measurement and control, and their fusion technologies;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the smart material development, the smart measurement and control, and their fusion technologies as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using oral, written, and/or external examinations.

The Division of Advanced Science and Engineering of Graduate School of Advanced Science and

For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the following website.

URL: <https://www.hiroshima-u.ac.jp/en/adse/staff>



(1) Mathematics Program / Physics Program / Earth and Planetary Systems Science Program / Chemistry Program

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Friday, January 5, 2024 – Thursday, January 11, 2024	9:00-, Friday, January 26, 2024	Written Examination Oral Examination	Planned to be 12:00-, Wednesday, February 14, 2024
	(Preliminary day: Saturday, January 27, 2024)		

(2) Applied Chemistry Program / Chemical Engineering Program / Electrical, Systems, and Control Engineering Program / Transportation and Environmental Systems Program / Civil and Environmental Engineering Program / Informatics and Data Science Program / Smart Innovation Program (Applied Chemistry) / Smart Innovation Program(Electrical, Systems, and Control Engineering) / Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences, Development Science)

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Friday, January 5, 2024 – Thursday, January 11, 2024	9:00-, Thursday, January 25, 2024	Written Examination	Planned to be 12:00-, Wednesday, February 14, 2024
	9:00-, Friday, January 26, 2024	Oral Examination	
	(Preliminary day: Saturday, January 27, 2024)		

(Caution)

For both (1) and (2) above, in the difficult case of carrying out the entrance examination because of bad weather, epidemic, etc., the entrance examination may be held on the preliminary day. Postponement of the examination, extension of the starting time of the examination and so forth will be notified on the website of the Graduate School of Advanced Science and Engineering (<https://www.hiroshima-u.ac.jp/en/adse>). Please keep yourself updated.

Refer to the section " Application Eligibility".

Refer to the page for each Program listed in the section " Application Documents and Selection Process" and confirm the application documents and selection process (examination subject, basic policy, and evaluation criteria).

(1) Your application will be accepted via internet during the application period.

Refer to the procedure described in the section " Application Procedure".

(2) Deliver or mail your application documents specified by each Program to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted".

The Support Office is open from 8:30 to 17:00 during the application period for the applicant who delivers the application documents.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no

later than 17:00, Thursday, January 11. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 9.

After our graduate school has received the application documents and confirmed that the application eligibility has been fulfilled, you will be able to check your examinee's number, the Examination Card and examination guide on the UCARO website (refer to the section " Application Procedure") after 12:00 on January 17, 2024 (planned).

Please be sure to print out the Examination Card from the UCARO and bring it on the day of the examination.

We will send the acceptance certificate and the admission guide to the successful applicants by mail.

An announcement will also be made on the website of the Graduate School of Advanced Science and Engineering, Hiroshima University (<https://www.hiroshima-u.ac.jp/en/adse>). The announcement on the website is made as part of information provision and does NOT grant admission officially in any way. Only mailing of the acceptance certificate should be regarded as an official announcement of admission. Please also note that an announcement will not be made through posting on the bulletin board on campus.

(We do not answer any inquiry via phone.)

Those who meet or are expected to meet by March 31, 2024 either of the following criteria.

- (1) A person who graduated from a university or college.
- (2) A person who earned a bachelor's degree from the National Institution for Academic Degrees and Quality Enhancement of Higher Education according to the provision of Section 7 of Article 104 of School Education Act (Act No. 26 of 1947), or is expected to be conferred (Hereinafter referred to as "Expected graduate").
- (3) A person who completed a 16-year school education course in a country other than Japan.
- (4) A person who studied the class subjects provided by a foreign school as a correspondence course in Japan and, as a result, completed the 16-year school education course in the concerned foreign country.
- (5) A person who completed an education course in Japan provided by a foreign education institute which is established as an undergraduate course (limited to that for which the person who completed the course is regarded as having completed the 16-year school education course in the concerned foreign country) within the school education system in the concerned foreign country and has been separately specified by the Minister of Education, Culture, Sports, Science and Technology (MEXT).
- (6) A person who earned a degree equivalent to a bachelor's degree after completing a course of which the term is 3 years or longer (including a person who studied the class subjects provided by a foreign school as a correspondence course in Japan and completed the concerned education course; and a person who completed the education course in Japan provided by a foreign education institute which is established within the school education system in the concerned foreign country and is specified in the item (5) above) in a university or the other school in a foreign country, which has been evaluated for the comprehensive conditions of the education and research activities by a person who is authorized by the government or the concerned institutions of the concerned foreign country, or has been separately specified as equivalent by MEXT.
- (7) A person who completed a 16-year school education course in a country other than Japan.

【The applicant who falls under the application eligibility (9) above】

Download the specified forms (a, b and c) from the website of the Graduate School of Advanced Science and Engineering.

Document name	Note
a Application Form for P	

g	Certificate of Past Research	Only for the applicants who conducted research as a research student or a researcher for over 1 year at a research institute (university or a joint use facility) either in Japan or a foreign country. Use the specified form to prepare.
h	Return Envelope	Use a standard envelope (12cm× 23.5cm in size) and fill out your address and name; affix a 344-yen stamp to the front.

(Caution) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

- (2) The results of the preliminary evaluation will be notified to the applicants by Monday, December 25, 2023.
- (3) The applicant who has successfully passed a preliminary evaluation must submit the application documents (except the ones which have been already submitted in a preliminary evaluation) specified for each Program. Refer to the respective pages listed in the section " Application Documents and Selection Process".

Those who apply for Engineering Programs & Informatics and Data Science Program must submit a score certificate of the English-language proficiency examination which was held in the period from May 2021 to the time of application such as TOEIC® L&R (score 450 or above), TOEFL®-ITP (score 457 or above), TOEFL®-iBT (score 44 or above), IELTS Academic (score 4.0 or above) or Cambridge English Qualifications (score 140 or above) at the time of application.

Note that the application documents and selection process vary for each program.

For the details, refer to the respective pages listed in the table below.

Program	Category	Page(s) to be referred
Mathematics Program	Science Programs	Pages 16 to 17
Physics Program		
Earth and Planetary Systems Science Program		
Chemistry Program		
Applied Chemistry Program	Engineering Programs & Informatics and Data Science Program	Pages 18 to 22
Chemical Engineering Program		
Electrical, Systems, and Control Engineering Program		
Transportation and Environmental Systems Program		
Civil and Environmental Engineering Program		
Informatics and Data Science Program		
Smart Innovation Program (Applied Chemistry)		
Smart Innovation Program (Electrical, Systems, and Control Engineering)		
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences, Development Science)		Pages 23 to 25

- 【Oral examination】 Scale of 1 to 4 (A, B, C, D)
- 【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Physics Program

The results of the written examination, oral examination and the academic transcript will be comprehensively evaluated.

- 【Written examination】 Scale of 1 to 4 (A, B, C, D)
- 【Oral examination】 Scale of 1 to 4 (A, B, C, D)
- 【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Earth and Planetary Systems Science Program

The results of the written examination, foreign-language proficiency, oral examination and the academic transcript will be comprehensively evaluated.

- 【Written examination】 Scale of 1 to 4 (A, B, C, D)
- 【Foreign-language proficiency】 TOEIC® or TOEFL® scores converted to max. 200 points
- 【Oral examination】 Scale of 1 to 4 (A, B, C, D)
- 【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Chemistry Program

The results of the written examination, foreign-language proficiency, oral examination and the academic transcript will be comprehensively evaluated.

- 【Written examination】 Scale of 1 to 4 (A, B, C, D)
- 【Foreign-language proficiency】 TOEIC® or TOEFL® scores converted to max. 100 points
- 【Oral examination】 Scale of 1 to 4 (A, B, C, D)
- 【Academic transcript】 Scale of 1 to 3 (A, B, C)

(3) Written Examination and Oral Examination Schedule

Program name	Written examination		Oral examination
Mathematics Program	Friday, January 26	Specialized subject 9:00 - 12:00	13:30-, Friday, January 26

(Caution 1) Foreign applicants are required to consult with the Support Office in advance about the examination language for the written examination in specialized subject.

(Caution 2) For contents of the written examination in specialized subject, refer to the "(4) Contents of the Written Examination".

(Caution 3) The details of the oral examination will be notified when sending the examination guide and on the examination day.

Program name	Written examination and oral examination
Physics Program	9:00-, Friday, January 26
Earth and Planetary Systems Science Program	
Chemistry Program	

(Caution 1) The details of the written examination in specialized subject and the oral examination will be notified when sending the examination guide and on the examination day.

(Caution 2) For contents of the written examination in specialized subject, refer to the "(4) Contents of Written Examination".

(4) Contents of Written Examination

Program name	Contents
Mathematics Program	Basic questions concerning mathematics
Physics Program	Questions concerning dynamics, electromagnetics, quantum dynamics, and thermal / statistical dynamics
Earth and Planetary Systems Science Program	Basic questions concerning earth and planetary systems science
Chemistry Program	Basic questions concerning chemistry

Applied Chemistry / Chemical Engineering / Electrical, Systems, and Control Engineering / Transportation and Environmental Systems / Civil and Environmental Engineering / Informatics and Data Science / Smart Innovation (Applied Chemistry) / Smart Innovation (Electrical, Systems, and Control Engineering)

After making the application via internet, submit all the documents listed below at once during the application period to the Support Office indicated in the " Programs and Number of Students to be Admitted". Download the specified forms (4, 7, 8 and 10) from the website of the Graduate School of Advanced Science and Engineering.

No	Document name	Note				
1	Academic Transcript	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending</p> <p>The applicant who graduated or is expected to graduate from the advanced course in a college of technology must submit the academic transcript for both the regular and advanced course.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.</p>				
2	Certificate of Graduation or Certificate of Expected Graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>If the certificate does not indicate that you were conferred a bachelor's degree, submit another document that proves it.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.</p> <p>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Graduate</th> <th style="width: 50%;">Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> 学历证书电 备 * 毕业证书 证书 </td> <td style="text-align: center;"> 线验证报 * 毕业预 证书 </td> </tr> </tbody> </table> <p>* Obtain the document through " (CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	学历证书电 备 * 毕业证书 证书	线验证报 * 毕业预 证书
Graduate	Prospective Graduate					
学历证书电 备 * 毕业证书 证书	线验证报 * 毕业预 证书					
3	Certificate of Expected Application for the Conferment of a Bachelor's Degree or Certificate of a Bachelor's Degree	<p>Only for the applicant who falls under the application eligibility (2).</p> <ul style="list-style-type: none"> • Expected graduate: Certificate of expected application for the conferment of a bachelor's degree issued by the president of a college of technology. • Bachelor's degree holder: Certificate of a bachelor's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education. 				
4	List for the Oral Examination	Use the specified form to prepare.				

5	Score Certificate of English-language Proficiency	<p>Submit the original score certificate of either of the following examinations which was held in the period from May 2021 to the time of application. (The submitted score certificate will be returned to the applicant after confirmation).</p> <p>TOEIC® Public Test L&R TOEIC®-IP L&R (including College TOEIC®) TOEFL®- ITP TOEFL®-iBT IELTS Academic Cambridge English Qualifications</p> <p>* Check " 3. Application Requirements " in the section " Application Eligibility". * As for using the Digital Official Score Certificate for TOEIC®, please inquire of the Support Office.</p>
6	Score Certificate of English-language Proficiency (copy)	Submit a copy of the document No. 5 "

○ Informatics and Data Science Program

【Written examination】 Specialized subject (max. 600 points)

Basic academic abilities, thinking abilities, understanding and creativity will be evaluated.

【Oral examination】 Motivation, aptitude for the desired subject of study and basic academic abilities will be evaluated in scale of 1 to 3.

【English】 Max. 100 points (Converted from Score certificate of English-language proficiency)

【Academic transcript】 Scale of 1 to 4

(3) Written Examination and Oral Examination Schedule

Program name	Written examination		Oral examination
Applied Chemistry Program	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 15 : 00
Chemical Engineering Program	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 15 : 00
Electrical, Systems, and Control Engineering Program	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 14 : 30
Transportation and Environmental Systems Program	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 15 : 00
Civil and Environmental Engineering Program	Thursday, January 25	Specialized subject	9 : 00 - 11 : 30
		Specialized subject	13 : 30 - 15 : 30
Informatics and Data Science Program	Thursday, January 25	Specialized subject	9 : 00 - 11 : 00
		Specialized subject	13 : 30 - 15 : 30
Smart Innovation Program (Applied Chemistry)	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 15 : 00
Smart Innovation Program (Electrical, Systems, and Control Engineering)	Thursday, January 25	Specialized subject	9 : 00 - 12 : 00
		Specialized subject	13 : 30 - 14 : 30

9:00-, Friday,
January 26

(Caution 1) For the contents of the written examination in specialized subject, refer to the table below.

(Caution 2) The details of the oral examination will be notified when sending the examination guide and on the examination day.

(4) Contents of Examination

Program name	Subject name	Category	Contents
Applied Chemistry Program	Applied Chemistry	Written examination (Specialized subject)	Select and answer two problems from the following three subjects: 1. Organic Chemistry (Basic Reactions, Physical Properties, and Chemical Bonds), 2. Physical Chemistry (Chemical Equilibrium, Kinetics, etc.), 3. Inorganic Chemistry (Fundamental Matters in General).

		Written examination (Specialized subject)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Applied Chemistry.
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and understanding in the desired specialized field will be evaluated.
Chemical Engineering Program	Chemical Engineering	Written examination (Specialized subject)	Select and answer three questions from the following six subjects: 1. Mass and Heat Balance, 2. Fluids Engineering, 3. Mass Transfer, 4. Heat Transfer, 5. Physical Chemistry, 6. Chemical Reaction Engineering. Some subjects may not be included in the test.
		Written examination (Specialized subject)	Essay is given to evaluate your knowledge and problem-solving skills in the area of on Chemical Engineering.
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and understanding in the desired specialized field will be evaluated.
Electrical, Systems, and Control Engineering Program	Electrical, Systems, and Control Engineering	Written examination (Specialized subject)	Select and answer three questions from the following subjects: 1. Linear Algebra, 2. Calculus, 3. Electric Circuit Theory, 4. Linear Programming.
		Written examination (Specialized subject)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Electrical, Systems, and Control Engineering.
		Oral examination (Interview)	Requested to present your past research and a future research plan, and answer questions in the style of interview.
Transportation and Environmental Systems Program	Vehicle and Environmental System Engineering	Written examination (Specialized subject)	Mathematics (Linear Algebra, Calculus, Differential Equation, Vector Analysis) Dynamics (Particle and Mass System Dynamics, Rigid-Body Dynamics, Material Mechanics)
		Written examination (Specialized subject)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Transportation and Environmental Systems.
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and understanding in the desired specialized field will be evaluated.
Civil and Environmental Engineering Program	Civil and Environmental Engineering	Written examination (Specialized subject)	Select and answer one of the following six subjects (You must select and register the subject at the time of application) <ul style="list-style-type: none"> • Structural Engineering (Strength of Material, Structural Mechanics, Energy Principles) • Concrete Engineering (Materials for Concrete, Properties of Fresh and Hardened Concrete, Concrete Structure) • Geotechnical Engineering (Soil Mechanics, Design of Earth Structures, Geotechnical Disaster Mitigation) • Sanitary and Environmental Engineering (Water Chemistry, Water Supply and Sewerage Systems, Microbial Ecology, Kinetics) • Hydraulics (Conservation Laws of Momentum and Energy, Laminar and Turbulent Flows, Flows in Open Channels and Conduits) • Infrastructure and Transportation Planning (City Planning and Transportation Demand Forecasting)

		Written examination (Specialized subject)	<p>Essay A: your knowledge and problem-solving skills in the area of Civil and Environmental Engineering will be evaluated.</p> <p>Essay B: Review of previous studies regarding a desired research topic</p> <p>※A list of reviewed papers must be submitted at the examination. The list must follow the format specified in the following URL. https://www.hiroshima-u.ac.jp/system/files/209276/references.doc</p>
		Oral examination (Interview)	Your motivation and capability for the desired subject of study, as well as your understanding in the desired specialized field will be evaluated.
Informatics and Data Science Program	Informatics and Data Science	Written examination (Specialized subject)	<p>Answer four questions about the following subjects: 1. Linear Algebra, 2. Advanced Calculus and Ordinary Differential Equations, 3. Probability and Statistics, 4. Discrete Mathematics.</p>
		Written examination (Specialized subject)	<p>Select and answer three questions from the following subjects: 1. Information Theory, 2. Algorithms and Data Structures, 3. Programming Language, 4. Computer Architecture and Digital Circuits, 5. Statistical Estimation and Testing, 6. Machine Learning. Requested to answer the additional problem to evaluate your knowledge and problem solving skills in the area of Informatics and Data Science.</p>
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and basic academic abilities will be evaluated.
Smart Innovation Program (Applied Chemistry)	Applied Chemistry	Written examination (Specialized subject)	<p>Select and answer two problems from the following three subjects: 1. Organic Chemistry (Basic Reactions, Physical Properties, and Chemical Bonds), 2. Physical Chemistry (Chemical Equilibrium, Kinetics, etc.), 3. Inorganic Chemistry (Fundamental Matters in General).</p>
		Written examination (Specialized subject)	Essay is given to evaluate your knowledge and problem-



- ◇After making the application via internet, submit all the documents listed below at once during the application period to the Support Office indicated in the " Programs and Number of Students to be Admitted". Download the specified forms (1, 2, 3, 4and 8) from the web site of the Graduate School of Advanced Science and Engineering.
- ◇Each certificate (except“ Language Test Score Certificate”) must be the original. However, if a new certificate is not issued, a certified copy of the original (certified by the official organization (preferably the issuing organization) as being the same as the original) will be accepted.
- ◇Any forgery or falsification of the documents and/or academic fraud would result in cancellation of acceptance even after passing examination and/or completing enrollment procedure.

No	Document Name	Note				
1	Personal History	Use the specified form to prepare.				
2	Registration of Selected Subject for Applicants of Transdisciplinary Science and Engineering Program	Use the specified form to prepare.				
3	Research Plan	Use the specified form to prepare. A detailed research plan written in either Japanese (about 2,000 characters) or English (about 1,000 words)				
4	Common Assignment	Describe a future vision created by advancing your research further through a transdisciplinary approach in relation to your research plan in the specified form in Japanese (about 2,000 characters) or English (about 1,000 words), which should be understandable to non-specialists.				
5	Academic Transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The applicant who is currently enrolled in or has completed a graduate school must submit the academic transcript for both the faculty and the graduate school. If the certificate does not indicate evaluation criteria of grading, submit another document issued by the university that includes the evaluation criteria.				
6	Certificate of Degree Awarded or Certificate of (Expected) Graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The applicant who is currently enrolled in or has completed a graduate school must submit the certificate for both the undergraduate university and the graduate school. If you are a graduate, make sure that the certificate includes information about your degree. The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Graduate</th> <th style="text-align: center;">Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> 毕业证书 硕 士 证书 电 子 备 用 * </td> <td style="text-align: center;"> 毕业预 证书 线 验 证 报 * </td> </tr> </tbody> </table> <p>* Obtain the document through " (CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	毕业证书 硕 士 证书 电 子 备 用 *	毕业预 证书 线 验 证 报 *
Graduate	Prospective Graduate					
毕业证书 硕 士 证书 电 子 备 用 *	毕业预 证书 线 验 证 报 *					

7	Certificate of Expected Application for the Conferment of a Bachelor's Degree or Certificate of a Bachelor's Degree	<p>Only for the applicant who falls under the application eligibility (2).</p> <ul style="list-style-type: none"> • Expected graduate: Certificate of expected application for the conferment of a bachelor's degree issued by the president of a college of technology. • Bachelor's degree holder: Certificate of a bachelor's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education.
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The applicant who is currently enrolled in a graduate school

Use the specified form to prepare.
The applicant who is enrolled in other graduate school must submit a letter of approval for taking the entrance examination issued by the president of the university or the

8 Letter of Approval for Taking the Entrance Examination

evaluation of the Application Documents.

A	Excellent (Most Appropriate for Enrollment)
B	Good (Appropriate for Enrollment)
C	Poor (Inappropriate for Enrollment)

【General Judgement】 Those who have passed both the Written Examination and Oral Examination will be successful applicants.

(3) Written Examination and Oral Examination Schedule

Written Examination	Oral Examination
Thursday, January 25, 9:00 - 11:00	Friday, January 26, 9:00 -

(Caution) The details of the Oral Examination will be notified when sending the examination guide and on the examination day.

(4) Subjects of Written Examination

Select one subject from Specialized subject respectively at the time of application.

Specialized subject
<input type="radio"/> Energy Science and Technology
<input type="radio"/> Ecology
<input type="radio"/> Environmental Health Science
<input type="radio"/> Informatics
<input type="radio"/> Regional & Urban Planning
<input type="radio"/> Transportation Engineering
<input type="radio"/> Building and Urban Environmental Science
<input type="radio"/> Agriculture
<input type="radio"/> Natural Environmental Sciences
<input type="radio"/> Physics
<input type="radio"/> Material Science and Engineering
<input type="radio"/> Energy Science and Engineering

Apply via internet and submit the application documents.

- ① Input the information regarding the application on the website.
- ② Pay the entrance application fee of 30,000 yen.
- ③ Deliver or mail the application documents.

(Caution)

The application via internet will not be completed when only the input of the information on the website and the payment of the entrance application fee are done. It is required to deliver or mail the application documents to be received before the deadline. The application will not be accepted when the applicant only sends the application documents.

The applicant must complete all the processes ①, ②, and ③ described above in the "1. Application Method" during the application period.

In the case of ③ (submission via mail), the documents must be sent in a registered mail and reach us no later than 17:00, Thursday, January 11. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 9.

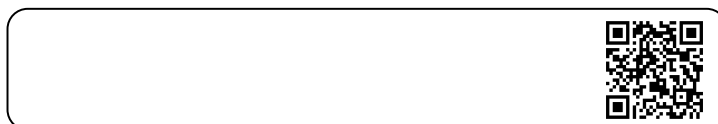
Inquiry regarding the system

Inquires accepted from 10:00 to 18:00 (Except from December 30 to January 3) Tel: 03-5952-3902
Inquires accepted from 10:00 to 18:00 (Except from December 30 to January 3) Tel: 03-5952-2114

- For inquiries regarding the entrance examination, refer to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted".
 - Open: 8:30 - 17:00 (closed on Saturday, Sunday, and national holidays)
 - * Please note that it is required to include the area code to dial if you call from the following areas, even when you call from an area of the same area code as that of the inquiry contact.
(Areas in Hiroshima City, Fuchu Town, Kaita Town, Kumano Town, and Saka Town)

- Complete the following 8 steps during the application period.

Access the following web page:



Account registration for UCARO system is required for application (free of charge). Hiroshima University uses the system of UCARO for checking the examinee's number and processing a part of admission procedure for the applicant who will pass the entrance examination.

The applicant who applies for exemption of the entrance application fee must consult in advance with the respective Support Offices listed in the section " Programs and Number of Students to be Admitted" to obtain the alphanumeric characters of eight or more digits and enter them.

Follow the instruction on the screen and enter your name, address, telephone number, email address, etc. accurately.

The applicant can choose the prospective academic supervisors of the respective programs from "List of Academic Supervisors" and input their names from the 1st choice (Required) to 2nd and 3rd choice (Optional) in the column of "Academic Advisor." Please note that the applicant for Applied Chemistry Program and Smart Innovation Program (Applied Chemistry) is requested to input the names of "Research Fields" of the prospective academic supervisors from the 1st choice to the 3rd choice (All Required), not their personal names.

* Your personal information registered through the online application system will be used for the following purposes.

1. Carry out entrance examinations and screening.
2. Notify and send the screening results.
3. Send documents for enrollment procedures to successful applicants.
4. Send information before and after admission.
5. Create student registration data and Student ID-Cards.
6. Receive application fees.
7. Check the access status to the Service.

In addition, it may be used to create entrance examination statistical data in a form that does not identify individuals.

Follow the instruction on the screen and upload a digital photo of yourself. (File format: JPEG)

* The uploaded photo, which will be used for identification at the examination, will be also used for your student ID card after enrollment. Therefore, please be sure to upload your photo that meet the on-screen precautions.

Once uploaded, your photo will not be allowed to be replaced.

A fee of JPY 1,000 will be charged for changing the content of your student ID card (photo and your name) after enrollment.

Choose the method of payment from the following list.

1. Credit card: VISA, MasterCard, JCB, AMERICAN EXPRESS, Diners Club
2. Convenience store: 7-Eleven, LAWSON, MINISTOP, FamilyMart, Daily Yamazaki, Seicomart
3. Banking facilities' ATM [Pay-easy]
4. Online Banking

(Caution)

The applicant has to pay the charge for use of the online application system (1,000 yen per application) in addition to the entrance application fee.

MEXT Scholarship students who have applied for (or intend to apply for) extension of scholarship payment period are exempted from the entrance application fee. Those students who are enrolled in the university other than Hiroshima University at the time of application are required to submit the following two documents;

- (1) MEXT Scholarship Certificate
- (2) The document which proves that the applicant has applied for (or intends to apply for) extension of scholarship payment period (must be issued by the university the applicant is enrolled in).

The entrance application fee once paid will not be returned for any reason after the application is accepted except for the following cases of (1) or (2).

In either case of (1) or (2), the entrance application fee once paid will be returned after deducting the transfer fee from it. "Refunded Invoice for Entrance Examination Fee" will be sent to you. Fill in the required information, put your personal seal, and mail it back to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted" before Thursday,

February 22, 2024.

The charge for use of the online application system will not be repaid for any case.

- (1) The applicant does not submit the application documents or the application documents are not accepted.
- (2) The payment of the application fee is duplicated.

Write down _____ shown on the screen.

Deliver or mail your application documents specified by the Program to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted".

The Support Office is open from 8:30 to 17:00 during the application period (except for Saturday, Sunday and national holidays) for the applicant who delivers the application documents.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no later than Thursday, January 11. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 9.

Indicate the phrase "Application Documents for *** Program in the Graduate School of Advanced Science and Engineering is enclosed." in red on the front surface of the envelope.

- (1) Consult with the faculty who is expected to be your academic supervisor about your research theme before applying.

For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the following website.

URL: <https://www.hiroshima-u.ac.jp/en/adse/staff>

The consultation is held as part of information provision from the Graduate School and does not affect the result of the selection in any way.

- (2) The application documents with a defect might be rejected. After the application documents are accepted, they shall not be returned and it is not allowed to amend the information described in them for any reason.
- (3) For the certificates, it is required to submit the original or a copy with the original certification. Any copy without the original certification will not be accepted as the valid certificate.
- (4) The score certificate of English-language proficiency submitted for the application will be used for the following purposes.
 - ① Entrance examination
 - ② Statistics and analysis of English-language proficiency of applicants
- (5) The admission approval shall be withdrawn when it is found that the submitted documents contain any false indication.
- (6) The admission approval shall be withdrawn when the applicant who was expected to meet any of the application eligibilities at the time of application has failed to earn the expected degree or complete the expected school before the date of admission.

53.4 (T)- (tio)-5 DTw -9.023 -1.136 Td(((6Td[(S)16.92(ta)-4.8 (t)5.3 (e(2.(t)5.3 ((ed)10.3 672 (s)-0)0.8 (nt)C8 (-12.4 a)0)0.on)ul2 (o)4.72.

investigation and analysis on the trend of application). We neither use the information for the other purpose nor provide it to the person other than our concerned faculties and the staff.

(1) Documents for admission procedure

The documents will be sent after the selection result is announced.

UCARO system is used as a part of the admission procedures

Hiroshima University will implement special measures for exemption of Application Fees in AY 2023 in order to reduce the financial burden of those affected by natural disasters and secure opportunities for prospective students to enter the university.

If you wish to request exemption from the Application Fees, please be sure to contact the respective Support Offices listed in the section “ Programs and Number of Students to be Admitted” before applying for admission.

1. Type of Examinations Subject to Exemption

Entrance examinations conducted in AY 2023 for Schools, Graduate Schools, and Special Course of Special Support Education. (including examinations for re-enrollment and transfer)

2. Details of Exemption

Exemption of Application Fees

* The fees for disclosure of entrance examination results is also subject to exemption.

3. Disasters for Exemption

Any of the disasters that happened in or after August 2019 and to which the Disaster Relief Act was applied

* Entrance examinations subject to exemption from application fees are limited to those whose application periods (the final day) are set within five years from the date on which the relevant Disaster Relief Act was applied.

4. Eligibility for Exemption

Applicants who were affected by any of the disasters that happened in or after August 2019 and to which the Disaster Relief Act was applied and also who fall under any of the following cases:

- (1) When the home owned by the main school expenses supporter was completely destroyed, substantially damaged, or moderately damaged.
- (2) When the main household supporter is deceased or missing.

For details on the areas covered by the Disaster Relief Act, access the Cabinet Office website:
https://www.bousai.go.jp/taisaku/kyuujo/kyuujo_tekiyou.html (Japanese text only)

5. How to Apply

Please contact in advance the respective Support Offices listed in the section “ Programs and Number of Students to be Admitted”, and then submit the documents required for exemption, together with other admission application documents.

In this case, please do not pay the entrance application fees when applying for admission.

6. Required Documents

- (1) “Application for Exemption of Application Fees” which can be downloaded from the Hiroshima University website (<https://www.hiroshima-u.ac.jp/en/nyugaku>)
- (2) Disaster damage certificate (photocopy is also acceptable) [Those who fall under 4 (1)]
- (3) Document certifying that the main household supporter is deceased or missing (photocopy is also acceptable) [Those who fall under 4 (2)]

7. Online Application Procedures

Refer to the PDF file available in the following website.

[https://www.hiroshima-u.ac.jp/system/files/131856/Online application procedures for-Application Fees Exemption.pdf](https://www.hiroshima-u.ac.jp/system/files/131856/Online%20application%20procedures%20for%20Application%20Fees%20Exemption.pdf)

8. Inquiries

Refer to the respective Support Offices listed in the section “ Programs and Number of Students to be Admitted”.