

April 2022 Admission

Graduate School of Advanced Science and Engineering

(Master's Course)

Division of Advanced Science and Engineering

**Special Selection for
International Students
[For Students Living in Japan]
Application Guidebook**

Mathematics Program

Physics Program

Earth and Planetary Systems Science Program

Basic Chemistry Program

Applied Chemistry Program

Chemical Engineering Program

Mechanical Engineering Program

Transportation and Environmental Systems Program

Architecture Program

Civil and Environmental Engineering Program

Quantum Matter Program

November 2021



HIROSHIMA UNIVERSITY

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Admission Policy

1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Master's Course)

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 the basic academic abilities necessary for it:

An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;

The will to be engaged in professional occupations such as researchers and engineers in areas related to natural science, engineering, and information science;

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

Common sense and ethics required for a member of society.

2. Admission Policy of each Program

[Mathematics Program]

The Mathematics Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

A strong questing mind for the mathematical truth and an ambition to make a progress in specialized and/or inter-disciplinary research of mathematics;

The will to be engaged in professional occupations such as researchers, educators, and engineers in mathematics areas;

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

Common sense and ethics required for a member of society.

[Physics Program]

The Physics Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

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;

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;

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

Common sense and ethics required for a member of society.

[Earth and Planetary Systems Science Program]

The Earth and Planetary Systems Science Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for acquiring advanced expertise and research techniques related to the earth and planetary systems science;

The will to be engaged in professional occupations such as researchers, educators, and engineers in areas of the earth and planetary systems science;

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, in addition to a strong curiosity about not only the earth and planetary systems science but also for the other areas; and

Common sense and ethics required for a member of society.

[Basic Chemistry Program]

The Basic Chemistry Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

Basic knowledge and ability of comprehension, examination, and presentation regarding the basic chemistry and an ambition for taking part in the academic and/or inter-disciplinary research;

The will to be engaged in professional occupations such as researchers and engineers in basic chemistry areas;

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 basic chemistry as well as a wide range of intelligence; and

Common sense and ethics required for a member of society.

[Applied Chemistry Program]

The Applied Chemistry Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for academic research and inter-disciplinary activities;

The will to be engaged in professional occupations such as researchers and engineers in applied chemistry areas;

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 applied chemistry as well as a wide range of intelligence; and

Common sense and ethics required for a member of society.

[Chemical Engineering Program]

The Chemical Engineering Program requires the student who enters this program to have not only ambitions and characteristics described below but also the basic academic skills necessary to achieve it:

Ambition for academic research and cross-disciplinary activities;

Will for being engaged in the profession that requires expertise such as a researcher and engineer in chemical engineering areas;

Zeal for establishing the "science that enables sustainable development" from diversified points of view and solving problems in the local community and the international society, in addition to knowledge and study skills for the academic areas related to the chemical engineering as well as wide range of intelligence; and

Common sense and ethics required for an adult.

[Mechanical Engineering Program]

The Mechanical Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for academic research and inter-disciplinary activities;

The will to be engaged in professional occupations such as researchers and engineers in mechanical engineering areas;

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 mechanical engineering as well as a wide range of intelligence; and

Common sense and ethics required for a member of society.

[Transportation and Environmental Systems Program]

The Transportation and Environmental Systems Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for academic research and inter-disciplinary activities;

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;

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

Common sense and ethics required for a member of society.

[Architecture Program]

The Architecture Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for academic research and inter-disciplinary activities;

The will to be engaged in professional occupations such as researchers and engineers in architecture areas;

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 architecture as well as a wide range of intelligence; and

Common sense and ethics required for a member of society.

[Civil and Environmental Engineering Program]

The Civil and Environmental Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

An ambition for academic research and inter-disciplinary activities;

The will to work as a high-level engineer or researcher in areas of civil and environmental engineering including disaster prevention and mitigation engineering;

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

Common sense and ethics required for a member of society.

[Quantum Matter Program]

The Quantum Matter Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

The will to be engaged in professional occupations such as researchers and engineers in area of the basic materials science, condensed material physics, material science and engineering, and electronic engineering;

An ambition for acquiring knowledge and skills related to areas mentioned above regardless of the experience and background before entering the university;

A wish to build up new businesses as well as exploring scientific facts and applying scientific findings from the academic point of view;

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 basic materials science, condensed material physics, material science and engineering, and electronic engineering as well as a wide range of intelligence; and

Common sense and ethics required for a member of society.

II Programs and Number of Students to be Admitted

The Division of Advanced Science and Engineering of Graduate School of Advanced Science and Engineering in Hiroshima University will accept applicants in Special Selection for International Students [For Students Living in Japan] for April 2022 admission to the Master's Course as indicated below.

April 2022 Admission

Division	Program	Capacity	Admission capacity	Venue for examination	Contact Submission address for application documents
	Math/P 4009.9.3 44.4 0				

Division of Advanced Science and Engineering

III Outline of Entrance Examination

1. Schedule of the Entrance Examination

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

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Tuesday, January 4, 2022 – Tuesday, January 11, 2022	9:00 -, Friday, January 28, 2022	Written examination Oral examination	Planned to be 12:00 -, Wednesday, February 16, 2022

5. Result Announcement

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 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.

IV Application Eligibility

1. Application Eligibility

Those who are of a non-Japanese nationality, live in Japan at the time of application for admission, and must meet or are expected to meet by March 31, 2022 either of the following criteria.

Mathematics Program/ Physics Program/ Earth and Planetary Systems Science Program/ Basic Chemistry Program

The applicant must meet either of the criteria (1) to (10)

Applied Chemistry Program / Chemical Engineering Program / Mechanical Engineering Program / Transportation and Environmental Systems Program / Architecture Program / Civil and Environmental Engineering Program

The applicant must meet either of the criteria (3), (6) or (10).

The applicant who has graduated from a Japanese University or is expected to graduate is not eligible.

Quantum Matter Program

The applicant must meet either of the criteria (3), (6) or (10).

- (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 and earned a bachelor's degree.
- (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, after the date specified by MEXT, the specialized course of a specialized training college (limited to that meets the criteria specified by MEXT, such as its term is 4 years or longer) which is separately specified by MEXT.
- (8) A person who has been specified by MEXT (as defined in the Notification of Ministry of Education, No. 5 of 1953: e.g. a person who graduated from a university established under the University Ordinance in 1886 or a college established under a law stipulated for the concerned government agency regarding its establishment such as the act for establishment, order for organization, and individual law for the Incorporated Administrative Agencies).
- (9) A person who wishes to transfer to the Graduate School after once entering other graduate school according to Section 2 of Article 102 of the Act and has been approved by the Graduate School as having academic abilities required for the education in the Graduate School.
- (10) A person who has been approved by the Graduate School as having academic abilities equivalent or

superior to those of bachelor degree holders according to the result of the examination that was separately conducted, and is 22 years or older.

(Caution) The applicant who falls under either of the criteria (9) or (10) above is subject to a preliminary evaluation of the application eligibility (refer to "2. Preliminary Evaluation").

2. Preliminary Evaluation

(1) Preliminary Examination

The applicant who falls under either of the application eligibility (9) or (10) above must follow the procedures below and pass a preliminary evaluation of the application eligibility.

a) Application Period

Monday, December 6, 2021 - Friday, December 10, 2021 no later than 17:00

(The application documents must be submitted in a registered mail with indication of the phrase "Application Form for Preliminary Evaluation is enclosed" in red on the front surface of the envelope)

b) Application Documents

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

Document name		Note				
a	Application Form for Preliminary Evaluation	Use the specified form to prepare.				
b	Record of Application Eligibility Evaluation	Use the specified form to prepare.				
c	Reasons for Application	Use the specified form to prepare.				
d	Research plan	Use A4 sized sheets; Any format is acceptable. Attach a list of research achievements, if any.				
e	Academic transcript	Issued by the president of the university the applicant attended or is attending. The applicant who falls under the application eligibility (9) above must submit the academic transcript of their undergraduate studies. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.				
f	Certificate of graduation	The applicant who falls under the application eligibility (9) above must submit a certificate of enrollment. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. The applicant who falls under the application eligibility (9) above, and 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: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Graduate</th> <th>Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">*</td> <td style="text-align: center;">*</td> </tr> </tbody> </table>	Graduate	Prospective Graduate	*	*
Graduate	Prospective Graduate					
*	*					
g	Certificate of Past Research	Use the specified form to prepare. Only for the applicant for Applied Chemistry Program, Chemical Engineering Program, Mechanical Engineering Program, Transportation and Environmental Systems Program, Architecture Program, Civil and Environmental Engineering Program. Only for those who conducted research as a research student or a researcher for over 1 year at a research institute (in a university or a joint use facility in Japan or in a foreign country).				

h	Curriculum table or its substitute	Only for the applicant for Applied Chemistry Program, Chemical Engineering Program, Mechanical Engineering Program, Transportation and Environmental Systems Program, Architecture Program, Civil and Environmental Engineering Program.
i	Return envelope	Use a standard envelope (12cm× 23.5cm in size) and fill out your address and name; affix a 374-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 27, 2021.
- (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 for listed in the section " Application Documents and Selection Process" (page 12).

V Application Documents and Selection Process

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 13 to 15
Physics Program		
Earth and Planetary Systems Science Program		
Basic Chemistry Program		
Applied Chemistry Program	Engineering Programs	Pages 16 to 19
Chemical Engineering Program		
Mechanical Engineering Program		
Transportation and Environmental Systems Program		
Architecture Program		
Civil and Environmental Engineering Program		
Quantum Matter Program		Pages 20 to 21

Science Programs

Mathematics Physics Earth and Planetary Systems Science Basic Chemistry

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the address indicated in the "Submission Address for Application Documents" (page 6).

No	Document Name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
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>The applicant who graduated or is expected to graduate from the School of Science of Hiroshima University need not submit this document.</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;">*</td> <td style="text-align: center;">*</td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, January 25, 2022 via the authentication system of the Ministry Education of China (http://www.chsi.com.cn/xlcx/bgys.jsp).</p>	Graduate	Prospective Graduate	*	*
Graduate	Prospective Graduate					
*	*					
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> <p>Expected graduate: Certificate of expected application for the conferment of a bachelor's degree issued by the president of a college of technology</p>				

selection process.

Physics Program

The written examination (specialized subject) and oral examination are given to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

Earth and Planetary Systems Science Program

The written examination (specialized subject) and the oral examination are given to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

Basic Chemistry Program

The written examination (specialized subject) and the oral examination are given to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

(2) Evaluation Criteria

Mathematics Program

The results of the written examinations (specialized subject and foreign-language proficiency) and the oral examination and the acad001 Tw [(M)1.60()T10.005 Tc 03 Tc (an)-1 (d)-1 (t)4.3 (h)(r)2.5 c4.3 (t)4.2 e extn

Program Name	Written Examination and Oral Examination
Physics Program	Friday, January 28, 9 00 -
Earth and Planetary Systems Science Program	
Basic Chemistry Program	

(Caution 1) The details of the Written examination and the oral examination will be notified when sending the examination card and on the examination day.

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

(4) Contents of Written Examination in Specialized Subject

Program Name	Contents
Mathematics Program	Basic questions concerning mathematics The use of a dictionary will not be allowed during the written examination in foreign-language proficiency
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
Basic Chemistry Program	Basic questions concerning chemistry

Engineering Programs

Applied Chemistry / Chemical Engineering / Mechanical Engineering /
Transportation and Environmental Systems / Architecture / Civil and
Environmental Engineering

1. Application Documents

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 section " Programs and Number of Students to be Admitted" (page 6). Download the specified forms (3, 6, 7, 8 and 10) from the website of the Graduate School of Advanced Science and Engineering.

No	Document name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
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. If the certificate does not indicate that you were conferred a bachelor's degree, submit another document that proves it. 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; margin-bottom: 5px;"> <thead> <tr> <th style="width: 50%;">Graduate</th> <th style="width: 50%;">Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">*</td> <td style="text-align: center;">*</td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, January 25, 2022 via the authentication system of the Ministry Education of China (http://www.chsi.com.cn/xlcx/bgys.jsp).</p>	Graduate	Prospective Graduate	*	*
Graduate	Prospective Graduate					
*	*					
3	List for the Oral Examination	<p>Use the specified form to prepare.</p> <p>Submit either the original score certificate of English-language proficiency or a certificate indicating that the applicant has received a higher education in English (Those who can choose are only for the applicants for Applied Chemistry Program, Architecture Program, or Civil and Environmental Engineering Program).</p> <p>The original score certificate of English-language proficiency Submit the original score certificate of either of the following examinations which was held in the period from May 2018 to the time of application. (The submitted score certificate will be returned to the applicant after confirmation)</p> <ul style="list-style-type: none"> TOEIC® Public Test TOEIC®-IP TOEFL®-PBT ITP TOEFL®-iBT IELTS Academic Cambridge English Qualifications <p>Certificate indicating that the applicant has received a higher education in English Issued by the president of the university or the dean of the faculty from which the applicant has graduated (Only for the applicants for Applied Chemistry Program, Architecture Program, or Civil and Environmental Engineering Program).</p>				
4	Score certificate of English-language proficiency					

5	Score certificate of English-language proficiency (copy)	If the applicant submits as the document No.4 "Score certificate of English-language proficiency," submit a copy of the concerned certificate (copy it in A4 sized paper).
6	Consent Form	Only for applicants for Mechanical Engineering Program. Use the specified form to prepare. Consult with the faculty member who is expected to be your academic advisor about the application for the Master's Course and obtain the consent.
7	Registration of selected subject for Applicants of Architecture	

Transportation and Environmental Systems Program	Thursday, January 27	Specialized Subject I	9:00 – 12:00
		Specialized Subject II	13:30 – 15:00
Architecture Program	Thursday, January 27	Specialized Subject I	9:00 – 12:00
		Specialized Subject II	13:30 – 15:00
Civil and Environmental Engineering Program	Thursday, January 27	Specialized Subject I	9:00 – 11:30
		Specialized Subject II	13:30 – 15:30

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

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

(4) Contents of Written Examination in Specialized Subject

Program name	Subject name	Category	Contents
Applied Chemistry Program	Applied Chemistry	Written examination (Specialized)	Organic and Polymer Chemistry, Inorganic and Analytical Chemistry, Physical Chemistry
		Written examination (Specialized)	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)	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)	Essay examination on the applicant's knowledge and thinking capacity on Chemical Engineering.
		Oral examination (Interview)	Evaluation on the applicant's motivation to study, aptitude for preferred field and understanding on specialized area, etc.
Mechanical Engineering Program	Mechanical Engineering	Written examination (Specialized)	Mathematics (Linear Algebra, Calculus)
		Written examination (Specialized)	Essay is given to evaluate your knowledge and problem-solving skills in the area of your future research
		Oral examination (Interview)	Requested to present your past research field 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)	Mathematics (Linear Algebra, Calculus, Differential Equation, Vector Analysis) Dynamics (Particle and Mass System Dynamics, Rigid-Body Dynamics, Material Mechanics)
		Written examination (Specialized)	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.
Architecture Program	Building Engineering	Written examination (Specialized)	Several fundamental questions and one specialized question in Building Engineering (including Building Materials)
		Written examination (Specialized)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Building Engineering
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and understanding in the desired specialized field will be evaluated.
	Architecture	Written examination (Specialized)	Specialized questions in Architectural Planning (including Urban Planning and Architecture Project), Architectural Environments (including Building Services), and Architectural History & Design Theory
		Written examination (Specialized)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Architecture
		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)	Select and answer one of the following six subjects (You must select and register the subject at the time of application) Structural Engineering (Strength of material, Structural Mechanics, and Energy Principles) Concrete Engineering (Materials for Concrete, Properties of Fresh and Hardened Concrete, and Concrete Structure) Geotechnical Engineering (Soil Mechanics, Design of Earth Structures, and Geotechnical Disaster Mitigation) Sanitary and Environmental Engineering (Water Chemistry, Water Supply and Sewerage Systems, Microbial Ecology, and Kinetics) Hydraulics (Conservation Laws of Momentum and Energy, Laminar and Turbulent Flows, and Flows in Open Channels and Conduits) Infrastructure and Transportation Planning (City Planning and Transportation Demand Forecasting)
		Written examination (Specialized subject)	Essay A: your knowledge and problem-solving skills in the area of Civil and Environmental Engineering will be evaluated. Essay B: Review of previous studies regarding a desired research topic 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/177238/references.doc
		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.

Quantum Matter Program

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the address indicated in the "Submission address for application documents" in the page 6. Download the specified forms (3, 4 and 9) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending. (For the applicant who falls under the application eligibility (3))				
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. (For the applicant who falls under the application eligibility (3))</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;">*</td> <td style="text-align: center;">*</td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid at Tuesday, January 25, 2022 via the authentication system of the Ministry Education of China (). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	*	*
Graduate	Prospective graduate					
*	*					
3	Research Plan	Use the specified form to prepare.				
4	Letter of Recommendation	Use the specified form to prepare. Signed by the applicant's academic advisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.				
5	Certificate of English language proficiency	Original score certificate of a language ability examination such as TOEFL® and TOEIC®				
6	A copy of residence card	If applicant's address is written on the back side of the card, please make a both sided copy.				
7	Return Envelope	Use a standard envelope (12cm×23.5cm in size) and fill out your address and name; affix a 94-yen stamp to the front (for sending the Examination Card)				
8	Certificate of the Graduate Record Examinations (GRE) (voluntarily submitted)	Submit the certificate of GRE, if any.				
9	Registration of selected subject for Applicants of Quantum Matter Program	Use the specified form to prepare.				

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

2. Selection Process

(1) Basic Policy

The results of the academic ability examinations (written and oral examination), English score (evaluated by the certificate of English language proficiency), and the submitted documents (e.g. academic transcript) will be evaluated totally to determine successful applicants.

The written examination is available in either Japanese or English.

(2) Evaluation Criteria

Written examination Basic subject (max. 100 points)

Oral examination Specialized subject (max. 400 points);

Common examination (Three-level evaluation (A, B, C) is performed.)

English Max. 100 points (converted from the score certificate of English language proficiency)

Submitted documents Three-level evaluation (A, B, C) is performed.

(3) Written Examination and Oral Examination Schedule

Friday, January 28, 2022	
Written examination	9 00 - 10 30
Oral Examination	11 00-

(Caution) Details of the oral examination will be notified when sending the examination card and on the examination day.

(4) Contents of Written Examination and Oral examination

Field	Category	Examination Subjects
Physics	Written examination	Basic subject Mathematics
	Oral examination	Specialized subject (oral assessment) Classical Mechanics Electromagnetism Quantum Mechanics Statistical Thermodynamics Common examination Motivation, aptitude for the desired subject of study and basic academic abilities will be evaluated.
Electronic Engineering	Written examination	Basic subject Mathematics
	Oral examination	Specialized subject (oral assessment) Electromagnetism Electronic Circuits Semiconductor Engineering Quantum Mechanics Common examination Motivation, aptitude for the desired subject of study and basic academic abilities will be evaluated.

Please choose and specify either Physics Field or Electronic Engineering Field in the form of “Registration of selected subject for Applicants of Quantum Matter Program”.

VI Application Procedure

1. Application Method

Apply via internet and submit the application documents.

Input the information regarding the application on the website.

Pay the entrance examination fee of 30,000 yen.

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 examination 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.

2. Application Period

The applicant must complete all the processes of , , and listed in the "1. Application Method" during the application period.

Tuesday, January 4, 2022 - 17:00, Tuesday, January 11, 2022
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In the case of (submission via mail), the documents must be sent in a registered mail and reach us no later than 17:00, Tuesday, January 11. The documents received after this time shall be accepted only when it is postmarked no later than Thursday, January 6.

3. Application via Internet

Inquiry regarding the system

Internet application help desk (only Japanese language available)
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Open: 10:00 - 18:00 (closed in the period from December 30 to January 3)

Tel: 03-5952-3902

(International calls and calls on IP telephony can also be received)

UCARO Office (only Japanese language available)
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Open: 10:00 - 18:00 (closed in the period from December 30 to January 3)

Tel: +81-50-3786-5524

(For International calls and calls on IP telephony:03-5952-2114)

For inquiries regarding the entrance examination, refer to the respective Support Office listed in the section " Programs and Number of Students to be Admitted" (page 6).

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,

Step 3: Input your account information (Exemption category only)

The applicant who applies for exemption from the entrance examination must consult in advance with the respective Support Office listed in the section "Programs and Number of Students to be Admitted" (page 6tion6))

VII Miscellaneous

1. Instruction for Application

- (1) Consult with the faculty who is expected to be your academic advisor 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/research>



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 document 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 for Earth and Planetary Systems Science Program in Science Programs, Engineering Programs, and Quantum Matter Program will be used for the following purposes.

Entrance examination

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.

2. Consultation with the Applicant who Needs Special Consideration for the Entrance Examination and/or Education in the Graduate School

The applicant who needs special consideration for the entrance examination and/or education in the Graduate School is required to submit the application form (in free format) which contains the following information to the respective Support Office listed in the section " Programs and Number of Students to be Admitted" (Page 6) to arrange a consultation.

A. Period for the consultation: Monday, December 6 - Friday, December 10, 2021

B. Information to be described in the application

Name & address of the applicant (the phone number must be included.)

Name of the university from which the applicant has graduated, Program for which the applicant will apply, and the name of faculty who is expected to be the applicant's academic supervisor.

Type and severity of the disability (submit a medical certificate issued by a doctor if the applicant is in treatment)

Measures to be taken for the entrance examination

Measures to be taken for education in the Graduate School

Specific measures that were taken in the university from which the applicant has graduated

Conditions of the daily life

3. Handling of Personal Information

The personal information obtained via the admission selection process (name, birth date, gender, and the other personal information) is used for the selection of entrants, notification to the successful applicants, and admission procedure. After the enrollment, Hiroshima University will manage the information for the purposes of student support (e.g. application for scholarship and tuition exemption) and investigation & research activities (e.g. improvement of the entrance examination system, investigation and analysis on the

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

4. Admission Procedure

(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.

(2) Fee

A: Enrollment fee: 282,000 yen

B: Tuition (per year): 535,800 yen

The enrollment fee once paid will not be returned for any reason.

The amounts listed above are as of April 2021. When the amount is revised at the time of admission or while the student is enrolled in the university, it is required to pay the revised amount.

5. Application for Disclosure of Examination Results

(1) The information regarding the result of the entrance examination for the Graduate School of Advanced Science and Engineering listed below is disclosed only to the person who has applied for the entrance examination (hereinafter referred to as the "applicant for disclosure").

Item	Disclosed information
Examination score	Points for each subject Evaluation of each subject (including the results of the scale assessment)

(2) The examination result (personal information) will be delivered on the respective Support Office or be sent via mail to the applicant for disclosure.

(3) The applicant for disclosure is required to download the form of "Application for Entrance Examination Result Disclosure" from the website of the Graduate School of Advanced Science and Engineering, fill in the required information, and directly submit or mail it to the respective Support Office.

It is also required to submit the admission ticket for identification.

(4) The Application for Entrance Examination Result Disclosure will be accepted during the period from April 1, 2022 to May 31, 2022.

(5) The result of the application shall be notified within 30 days after the Application for Entrance Examination Result Disclosure is received.

6. Others

(1) Smoking has been prohibited entirely in all HU campuses from January, 2020.

(2) Hiroshima University has established the university's Rules on Security Export Control in accordance with the Foreign Exchange and Foreign Trade Act, and conducts strict examinations for acceptance of international students, etc. Therefore, please be advised that International applicants may be unable to receive their desired education or conduct their desired research due to the restriction by the above regulations.

Special Measure of Exemption from the Entrance Examination Fee for the Applicant

Hiroshima University has decided to implement a special measure of exemption from the entrance examination fee for the entrance examinations in the 2021 academic year, to alleviate the economic burden on and to secure educational opportunities for the applicants affected by the disasters.

The applicant who wishes to be exempted from the entrance examination fee must contact in advance the respective Support Office listed in the section “ Programs and Number of Students to be Admitted” (page 6).

1 Examinations to which the Special Measure is Applied

The entrance examinations held in the 2021 academic year (including selections of re-admission, transfers, and mid-course entry admission).

2 Special Measure

Exemption from the entrance examination fees

*Fees for the entrance examination result disclosure will be covered as well.

3 Disasters to which the Special Measure is Applied

- (1) The Heavy Rain Event of July 2018
- (2) Any disasters covered by the Disaster Relief Act after August 28, 2019

4 The Applicant Eligible for Exemption

The applicant who was affected by the disaster specified in the "3 Disasters to which the Special Measure is Applied" in the areas covered by the Disaster Relief Act, and who falls under either of the following conditions.

- (1) The house in which the family's chief provider bearing the applicant's school expenses resides was completely destroyed, largely destroyed, or half-destroyed.
- (2) The family's chief provider bearing the applicant's school expenses died or was listed as missing in the disaster

(Caution) For the details of the areas covered by the Disaster Relief Act, refer to the following website.

http://www.bousai.go.jp/taisaku/kyuujo/kyuujo_tekiyou.html

5 Application

The applicant must contact in advance the respective Support Office listed in the section “ Programs and Number of Students to be Admitted” (page 6), and subsequently submit the specified application documents for exemption along with other required documents for admission.

In this case, do not pay the entrance examination fee at the time of application.

6 Application Documents

- (1) Application form for exemption from the entrance examination fee (Download the form from the following website)
<https://www.hiroshima-u.ac.jp/en/nyugaku>
- (2) Disaster victim certificate (a copy is acceptable) (For the applicant who falls under the condition of item (1) of the "4 The Applicant Eligible for Exemption" above)
- (3) Document that proves the death or missing status of the family's chief provider (a copy is acceptable) (For the applicant who falls under the condition of item (2) of the "4 The Applicant Eligible for Exemption" above)

7 Application Process (Internet Application)

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 Contact

Refer to the respective Support Office listed in the section “ Programs and Number of Students to be Admitted” (page 6).