

October 2022 and April 2023 Admission (A Term)

Graduate School of Advanced Science and Engineering

(Master's Course)

Division of Advanced Science and Engineering

General Selection Application Guidebook

May 2022



HIROSHIMA UNIVERSITY

Contents

I	Admission Policy	3
	1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Master's Course)	3
	2. Admission Policy of each Program	3
II	Programs and Number of Students to be Admitted	8
III	Outline of Entrance Examination	11
	1. Schedule of the Entrance Examination	11
	2. Application Eligibility	11
	3. Application Documents and Selection Process	11
	4. Application Procedure	11
	5. Result Announcement	12
IV	Application Eligibility	13
	1. Application Eligibility	13
	2. Preliminary Evaluation	13
V	Application Documents and Selection Process	16
	Science Program	17
	(Mathematics / Physics / Earth and Planetary Systems Science / Basic Chemistry)	
	1. Application Documents	17
	2. Selection Process	18
	Engineering Programs & Informatics and Data Science Program	20
	(Applied Chemistry / Chemical Engineering / Electrical, Systems, and Control Engineering / Mechanical Engineering / Transportation and Environmental Systems / Architecture / Civil and Environmental Engineering / Informatics and Data Science / Smart Innovation)	
	1. Application Documents	20
	2. Selection Process	21
	Quantum Matter Program	26
	1. Application Documents	26
	2. Selection Process	27
	Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)	29
	1. Application Documents	29
	2. Selection Process	30
	Transdisciplinary Science and Engineering Program (Development Science)	31
	1. Application Documents	31
	2. Selection Process	32
VI	Application Procedure	34
	1. Application Method	34
	2. Application Period	34
	3. Application via Internet	34
VII	Miscellaneous	37
	1. Instruction for Application	37
	2. Consultation with the Applicant Who Needs Special Consideration for the Entrance Examination and/or Education in the Graduate School	37
	3. Handling of Personal Information	37
	4. Admission Procedure	38
	5. Application for Disclosure of Examination Results	38
	6. Others	38
○	Special Measure of Exemption from the Entrance Examination Fee for the Applicant	39

I 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:

- 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 interviews, academic tests, and external examinations.

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:

- 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 interviews, academic tests, and external examinations.

[Physics Program]

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

- 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 interviews, academic tests, and external examinations.

[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:

- 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 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
- 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 interviews, academic tests, and external examinations.

[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:

- ① 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;
- ② The will to be engaged in professional occupations such researchers and engineers in basic chemistry 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 basic chemistry 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 interviews, academic tests, and external examinations.

[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:

- 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 applied chemistry 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 applied chemistry 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 interviews, academic tests, and external examinations.

[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:

- ① Ambition for academic research and cross-disciplinary activities;
- ② Will for being engaged in the profession that requires expertise such as a researcher and engineer in chemical engineering areas;
- ③ 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
- ④ Common sense and ethics required for an adult.

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 interviews, academic tests, and external examinations.

[Electrical, Systems, and Control Engineering Program]

The Electrical, Systems, and Control Engineering Program seeks students who have the following aspirations and

motivation and have the basic academic abilities necessary for it:

- 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 interviews, academic tests, and external examinations.

[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:

- 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 mechanical engineering 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 the mechanical 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 interviews, academic tests, and external examinations.

[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:

- 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 interviews, academic tests, and external examinations.

[Architecture Program]

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

- 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 architecture 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 architecture 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 interviews, academic tests, and external examinations.

[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:

- 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 interviews, academic tests, and external examinations.

[Informatics and Data Science Program]

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

- 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 interviews, academic tests, and external examinations.

[Smart Innovation Program]

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

- 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 interviews, academic tests, and external examinations.

[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:

- ① 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;
- ② An ambition for acquiring knowledge and skills related to areas mentioned above regardless of the experience and background before entering the university;
- ③ A wish to build up new businesses as well as exploring scientific facts and applying scientific findings from the academic point of view;
- ④ 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

- ⑤ 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 interviews, academic tests, and external examinations.

[Transdisciplinary Science and Engineering Program]

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

- ① An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;
- ② Interest in a new academic area in addition to both of the nature-oriented and human-oriented thoughts;
- 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 interdisciplinary areas such as the information science and the international cooperation studies 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 interviews, academic tests, and external examinations.

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 General Selection for October 2022 admission and April 2023 admission to the Master's Courses as indicated below.

【October 2022 Admission】

Division	Program	Capacity	Admission capacity	Venue for examination	Contact Submission address for application documents
Division of Advanced Science and Engineering	Mathematics Program	449	Several students	School of Engineering Hiroshima University	Support Office for the fields of Science 739-8526 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468
	Physics Program				
	Earth and Planetary Systems Science Program				
	Basic Chemistry Program				
	Applied Chemistry Program				
	Chemical Engineering Program				Support Office for the fields of Engineering 〒739-8527 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7518
	Electrical, Systems, and Control Engineering Program				
	Mechanical Engineering Program				
	Transportation and Environmental Systems Program				
	Architecture Program				
	Civil and Environmental Engineering Program				Support Office for the fields of Science (AdSM) 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009
	Informatics and Data Science Program				
	Smart Innovatio Program (Applied Chemistry)				
	Smart Innovatio Program (Electrical, Systems, and Control Engineering)				Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-6317, 6316
	Quantum Matter Program				
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)	Support Office for the fields of International Development and Cooperation 739-8529 1-5-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-5902				
Transdisciplinary Science and Engineering Program (Development Science)					

(Caution)

- Consult with the faculty who is expected to be your academic advisor about your research theme before applying.
For the information regarding faculty of the Graduate School of Advanced Science and Engineering refer to the following website.

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



【April 2023 Admission (A Term)】

Division	Program	Capacity	Admission Capacity	Examination Location	Contact Submission address for application documents
Division of Advanced Science and Engineering	Mathematics Program	449	269	School of Engineering Hiroshima University	Support Office for the fields of Science 739-8526 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468
	Physics Program				
	Earth and Planetary Systems Science Program				
	Basic Chemistry Program				
	Applied Chemistry Program				Support Office for the fields of Engineering 〒739-8527 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7518
	Chemical Engineering Program				
	Electrical, Systems, and Control Engineering Program				
	Mechanical Engineering Program				
	Transportation and Environmental Systems Program				
	Architecture Program				
	Civil and Environmental Engineering Program				
	Informatics and Data Science Program				
	Smart Innovation Program (Applied Chemistry)				Support Office for the fields of Science (AdSM) 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009
	Smart Innovation Program (Electrical, Systems, and Control Engineering)				
	Quantum Matter Program				Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-6317, 6316
	Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)				
Transdisciplinary Science and Engineering Program (Development Sciences)	Support Office for the fields of International Development and Cooperation 739-8529 1-5-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-5902				

(Caution)

- The selection for April 2023 admission will be held for all the Programs.
- Consult with the faculty who is expected to be your academic advisor about your research theme before applying.
For the information regarding faculty of the Graduate School of Advanced Science and Engineering refer to the following website.

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



III Outline of Entrance Examination

1. Schedule of the Entrance Examination

(1) Mathematics Program

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Friday, July 15, 2022 – Friday, July 22, 2022	Thursday, August 25, 2022, 9:00- Friday, August 26, 2022, 9:00-	Written Examination	Planned to be 12:00- Friday, September 2, 2022
	Friday, August 26, 2022, 13:30-	Oral Examination	
	(Preliminary date: Saturday, August 27, 2022)		

(2) Other Programs (Physics Program / Earth and Planetary Systems Science Program / Basic Chemistry Program / Applied Chemistry Program / Chemical Engineering Program / Electrical, Systems, and Control Engineering Program / Civil and Environmental Engineering Program / Informatics and Data Science Program / Smart Innovation Program / Quantum Matter Program / Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) / Transdisciplinary Science and Engineering Program (Development Science))

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Friday, July 15, 2022 – Friday, July 22, 2022	Thursday, August 25, 2022, 9:00-	Written Examination	Planned to be 12:00- Friday, September 2, 2022
	Friday, August 26, 2022, 9:00-	Oral Examination	
	(Preliminary date: Saturday, August 27, 2022)		

(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/adse>).

2. Application Eligibility

Refer to the section "IV Application Eligibility".

3. Application Documents and Selection Process

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

4. Application Procedure

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

Refer to the procedures described in the section "VI Application Procedure".

(2) Deliver or mail your application documents specified by each Program to respective Support Offices listed in the section "II 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 delivery, the documents will be accepted in respective Support Offices from 8:30 to 17:00 during the application period.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no later than 17:00, Friday, July 22. The documents received after this time shall be accepted only when it is postmarked no later than

Wednesday, July 20.

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 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.)

IV Application Eligibility

1. Application Eligibility

Those who meet or are expected to meet by September 30, 2022 for October 2022 admission, and by March 31, 2023 for April 2023 admission 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, 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 the "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, June 27, 2022 - Friday, July 1, 2022 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

Submit all the documents listed below at once during the application period to the respective Support Offices indicated in the section "II Programs and Number of Students to be Admitted".

【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 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	Must use A4 sized paper; free format Attach a list of research achievements, if any.
e	Academic transcript	Issued by the president of the university or the dean of the faculty from which the applicant has graduated. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.
f	Certificate of enrollment or graduation from a graduate school	Issued by the president of the university or the dean of the graduate school the applicant attended or is attending. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.
g	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.

【The applicant who falls under the application eligibility (10) above】

Download the specified forms (a, b, c and g) 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 certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.				
f	Certificate of graduation	Issued by the president of the university the applicant attended or is attending. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. 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: <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> <ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 </td> <td> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table>	Graduate	Prospective Graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective Graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					
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 1) 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 Tuesday, July 12, 2022.

(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 "V Application Documents and Selection Process".

V Application Documents and Selection Process

Note that 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 17 to 19
Physics Program		
Earth and Planetary Systems Science Program		
Basic Chemistry Program		
Applied Chemistry Program	Engineering Programs & Informatics and Data Science Program	Pages 20 to 25
Chemical Engineering Program		
Electrical, Systems, and Control Engineering Program		
Mechanical Engineering Program		
Transportation and Environmental Systems Program		
Architecture Program		
Civil and Environmental Engineering Program		
Informatics and Data Science Program		
Smart Innovation Program		
Quantum Matter Program		
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)		Pages 29 to 30
Transdisciplinary Science and Engineering Program (Development Science)		Pages 31 to 33

Science Programs

(Mathematics / Physics / Earth and Planetary Systems Science / Basic Chemistry)

1. Application Documents etc

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”.

No	Document name	Note				
0	Contact your academic advisor	Please be sure to contact academic advisor you wish to be supervised in Hiroshima University before applying.				
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 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> <ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 </td> <td> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, August 9, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					
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 of (2) above.</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	Score Certificate of English language proficiency	<p>Only for the applicant for Physics Program, Earth and Planetary Systems Science Program or Basic Chemistry Program.</p> <p>Submit the original score certificate from any of TOEIC® public test, TOEIC®-IP (including College TOEIC®), TOEFL®-CBT, TOEFL®-PBT, or TOEFL®-iBT. If you want your sheet to be returned, please inform us at the time of application. Refer to Caution 3 below for the details.</p>				
5	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).				

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 1 and 2 above.

(Caution 3) Regarding score certificate of English language proficiency

Physics Program, Earth and Planetary Systems Science Program and Basic Chemistry Program will use TOEIC® or TOEFL® scores in place of a written foreign language (English) examination.

The original score certificate of TOEIC® public test, TOEIC®-IP (including College TOEIC®), TOEFL®-CBT, TOEFL®-PBT, or TOEFL®-iBT will be accepted. The applicant is required to submit, along with other required documents, the original score certificate of either of these examinations who has taken more than one examination must choose one to submit. If you cannot submit the score certificate please contact the Support Office for the fields of Science.

The applicant who wishes to send their score certificate of TOEIC®-IP collectively conducted for all Hiroshima University undergraduate students and does not have their score certificate at hand must contact the Support Office for the fields of Science.

The applicant who does not submit their score certificate may take the rest of a written foreign language (English)

examination (if applicable) but will receive 0 (zero) points for the corresponding portion of the examination.

2. Selection Process

(1) Basic Policy

○Mathematics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course, and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, academic aptitude examinations (written examination on the specialized subject, an oral examination, Foreign language proficiency exam) are given to the applicant to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities. The result of the written examination and foreign language proficiency examination are evaluated by point-based scores. The result of the oral examination is evaluated by grade-based scores.

○Physics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, academic aptitude examinations (written examination on the specialized subject and an oral examination) are given to the applicant to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

Admission to the course is determined based on a comprehensive evaluation of the results of the examinations, the foreign language proficiency and the academic transcript of the applicant.

○Earth and Planetary Systems Science Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, the academic transcript of the applicant, the results of written examination on the specialized subject and an oral examination, and English language proficiency are comprehensively evaluated. The result of the written examination and foreign language proficiency (base on the score certificate of TOEIC® or TOEFL®) are evaluated by point-based scores. The result of the oral examination and the academic transcript are evaluated by grade-based scores.

○Basic Chemistry Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, the academic transcript of the applicant, the results of written examination on the specialized subject and an oral examination, and English language proficiency are comprehensively evaluated. The result of the written examination and foreign language proficiency (base on the score certificate of TOEIC® or TOEFL®) are evaluated by point-based scores. The result of the oral examination and the academic transcript are evaluated by grade-based scores.

(2) Evaluation Criteria

○Mathematics Program

【Written examination】 Specialized subject (max. 400 points); foreign language (max. 100 points)

【Oral examination】 Scale of 1 to 4

【Academic transcript】 Scale of 1 to 3

○Physics Program

【Written examination】 Specialized subject (max. 400 points)

【Foreign language】 TOEIC® or TOEFL® scores converted to max. 100 points

【Oral examination】 Scale of 1 to 4

【Academic transcript】 Scale of 1 to 3

○Earth and Planetary Systems Science Program

【Written examination】 Specialized subject (max. 400 points)

【Foreign language】 TOEIC® or TOEFL® scores converted to max. 200 points

【Oral examination】 Scale of 1 to 4

【Academic transcript】 Scale of 1 to 3

○Basic Chemistry Program

【Written examination】 Specialized subject (max. 400 points)

【Foreign language】 TOEIC® or TOEFL® scores converted to max. 100 points

【Oral examination】 Scale of 1 to 4

【Academic transcript】 Scale of 1 to 3

(3) Written Examination and Oral Examination Schedule

Program Name	Written Examination		Oral Examination
Mathematics Program	Thursday, August 25	Specialized subject 9 : 00 - 12 : 00 13 : 30 - 16 : 30	Friday, August 26, 13:30 -
	Friday, August 26	Foreign language 9 : 00 - 11 : 00	
Physics Program	Thursday, August 25	Specialized subject 9 : 00 - 12 : 00	Friday, August 26, 9:00 -
Earth and Planetary Systems Science Program			
Basic Chemistry Program			

(Caution 1) The written examination in foreign language must be English.

(Caution 2) For the contents of the written examination in specialized subject, refer to the table below. The use of dictionaries will not be allowed during the written examination in foreign language.

(Caution 3) Details of the oral examination will be notified when sending the examination card and on the examination day.

(Caution 4) The applicant for Mathematics Program is requested to consult with the relevant Support Office about the contents of the examination.

Program Name	Contents
Mathematics Program	Basic questions concerning mathematics
Physics Program	Four questions concerning Classical Mechanics, Electromagnetism, Quantum Mechanics, Statistical Thermodynamics
Earth and Planetary Systems Science Program	Six questions concerning earth and planetary systems science; four questions must be chosen and answered.
Basic Chemistry Program	Basic questions from respective branches of chemistry

Engineering Programs & Informatics and Data Science Program

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

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II 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 course and the 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; margin: 5px 0;"> <thead> <tr> <th style="width: 50%; text-align: center;">Graduate</th> <th style="width: 50%; text-align: center;">Prospective graduate</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, August 9, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					
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 2018 to the time of application. (The submitted score certificate will be returned to the applicant after confirmation). Although there is no minimum standard for the scores, application without submission of the score certificate will not be accepted. The applicant who does not have their score certificate at hand at the time of application is required to consult with the Support Office in advance.</p> <ul style="list-style-type: none"> · TOEIC® Public Test · TOEIC®-IP (including College TOEIC®) 				

		<ul style="list-style-type: none"> • TOEFL®-PBT • TOEFL®- ITP • TOEFL®-iBT • IELTS Academic • Cambridge English Qualifications
6	Score Certificate of English-language proficiency (copy)	Submit a copy of the document No. 5 "Score certificate of English-language proficiency " (in A4 sized paper)
7	Registration of Selected Subject for Applicants of Architecture Program or Smart Innovation Program	Only for the applicant for Architecture Program and Smart Innovation Program Use the specified form to prepare
8	Registration of Selected Subject for Applicants of Civil and Environmental Engineering Program	Only for the applicant for Civil and Environmental Engineering Program Use the specified form to prepare.
9	Copy of Residence Card	Only for foreign applicants residing in Japan. If your address is written on the back side of the card, make a two-sided copy.
10	Personal History	Only for the applicant who has graduated from a foreign university. Use the specified form to prepare.
11	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).

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of application eligibility need not submit the document No. 1, 2 and 10 above.

2. Selection Process

(1) Basic Policy

Academic abilities (based on the written examination and the oral examination), English (based on Score certificate of English-language proficiency), and the academic transcript will be comprehensively evaluated.

(2) Evaluation Criteria

【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) Schedule of Written Examination and Oral Examination

Program Name	Written Examination		Oral Examination
Applied Chemistry Program	Thursday, August 25	Specialized subject I	9 : 00 - 12 : 00
		Specialized subject II	13 : 30 - 15 : 00
Chemical Engineering Program	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
Electrical, Systems, and Control Engineering Program	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
Mechanical Engineering Program	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
Transportation and Environmental Systems Program	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
Architecture Program	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
Civil and Environmental Engineering Program	Thursday, August 25	Specialized subject I	9 : 00~11 : 30
		Specialized subject II	13 : 30~15 : 30
Informatics and Data Science Program	Thursday, August 25	Specialized subject I	9 : 00~11 : 00
		Specialized subject II	13 : 30~15 : 30
Smart Innovation Program (Applied Chemistry)	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~15 : 00
Smart Innovation Program (Electrical, Systems, and Control Engineering)	Thursday, August 25	Specialized subject I	9 : 00~12 : 00
		Specialized subject II	13 : 30~16 : 30
			Friday, August 26, 9:00-

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

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

(4) Contents of Written Examination

Program Name	Subject Name	Category	Contents
Applied Chemistry Program	Applied Chemistry	Specialized subject I	Basic Organic • Polymer Chemistry (Basic Organic and Polymerization Reactions, Acids and Bases, Structure (Resonance, Stereochemistry of Organic Compounds Including Polymers, Isomers), Basic Physical Chemistry (Equilibrium, Quantum), Basic Inorganic • Analytical Chemistry (Fundamental Problems in Inorganic and Analytical

			Chemistry)
		Specialized subject II	Select one of the following three subject groups: Advanced Organic • Polymer Chemistry (Catalytic Reactions, Multistep Synthesis, Precise Synthesis, Reaction Mechanism), Advanced Physical Chemistry (Kinetics, Molecular Structure), Advanced Inorganic • Analytical Chemistry (Specialized Problems in Inorganic and Analytical Chemistry)
Chemical Engineering Program	Chemical Engineering	Specialized subject I	Select and answer four problems from the following subjects: Mass and Heat Balance, Fluids Engineering, Heat Transfer, Chemical Engineering Thermodynamics, and Chemical Reaction Engineering.
		Specialized subject II	In addition to the explanation of Chemical Engineering terms, select and answer three problems from the following subjects: Powder Technology, Mass Transfer, Applied Mathematics/Process Control Engineering, and Environmental Chemical Engineering.
Electrical, Systems, and Control Engineering Program	Electrical, Systems, and Control Engineering	Specialized subject I	Answer three problems about linear algebra, infinitesimal calculus, and probability and statistics.
		Specialized subject II	Select and answer three questions that you select from problems about electric circuit theory, control engineering, electronics circuit, logic circuit, mathematical programming, ordinary differential equations.
Mechanical Engineering Program	Mechanical Engineering	Specialized subject I	<ul style="list-style-type: none"> • Mathematics (linear algebra, differentiation and integration, differential equations, vector calculus) • Mechanics of Materials (stress and strain, tension and compression, torsion, bending of beams, combined stress, stress analysis based on energy principles) • Mechanical Vibrations (vibration of single- and multi-degree-of-freedom systems, transient vibration, vibration isolation)
		Specialized subject II	Select three of the following four subjects. <ul style="list-style-type: none"> • Mechanical Materials (crystalline structure, equilibrium diagram, plasticity, diffusion, heat treatments, microstructures, mechanical properties of steels) • Thermodynamics (The first and second laws, Heat and entropy, Equations of state, Thermodynamic potentials, Exact differential, Ideal gas, Gas power cycles, Phase change, Phase equilibrium, Moist air) • Fluid Mechanics (Statics, Conservation laws of mass and momentum, Bernoulli's theorem, Hydrometry, Shear stress, Couette flow, Hagen–Poiseuille flow, Potential flow) • Control Engineering (classical control)
Transportation and Environmental Systems Program	Vehicle and Environmental Systems Engineering	Specialized subject I	<ul style="list-style-type: none"> • Mathematics (linear algebras, differential and integral calculus, differential equation and vector analysis) • Dynamics (particle and mass system dynamics, rigid-body dynamics)
		Specialized subject II	<ul style="list-style-type: none"> • Fluid Mechanics (fluid statics, Bernoulli's theorem, momentum theorem, potential flow) • Material and Structural Mechanics (cross sectional properties, sectional force, stress and strain, torsion, buckling, energy principles, statically determinate structure, statically indeterminate structure)
Architecture Program	Building Engineering	Specialized subject I	Fundamental problems in Building Engineering (including Building Materials), Architectural Planning (including Urban Planning and Architectural Project), Architectural Environments (including Building Services), and Architectural History and Design Theory.

		Specialized subject II	Specialized problems in Building Engineering (including Building Materials).
	Architecture	Specialized subject I	Fundamental problems in Building Engineering (including Building Materials), Architectural Planning (including Urban Planning and Architectural Project), Architectural Environments (including Building Services), and Architectural History & Design Theory.
		Specialized subject II	Specialized problems in Architectural Planning (including Urban Planning and Architectural Project), Architectural Environments (including Building Services), and Architectural History & Design Theory.
Civil and Environmental Engineering Program	Civil and Environmental Engineering	Specialized subject I	Select one of the following six subjects, which must be registered in the application: <ul style="list-style-type: none"> • 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)
		Specialized subject II	Essay A: Examination on the applicant's knowledge and thinking capacity on Civil and Environmental Engineering Essay B: Review of previous studies regarding desired research topic ※A list of reviewed papers is required to be submitted at the examination. The list must conform to the format shown at the following URL. URL: https://www.hiroshima-u.ac.jp/system/files/186425/references.doc
Informatics and Data Science Program	Informatics and Data Science	Specialized subject I	Answer four problems about the following subjects: 1. Linear Algebra, 2. Advanced Calculus and Ordinary Differential Equations, 3. Probability theory, 4. Discrete Mathematics.
		Specialized subject II	Select three problems from the following six 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. In addition, you will have to answer one more problem which evaluates your knowledge and problem solving skills in the area of Informatics and Data Science.
Smart Innovation Program (Applied Chemistry)	Applied Chemistry	Specialized subject I	Basic Organic • Polymer Chemistry (Basic Organic and Polymerization Reactions, Acids and Bases, Structure (Resonance, Stereochemistry of Organic Compounds Including Polymers, Isomers), Basic Physical Chemistry (Equilibrium, Quantum), Basic Inorganic • Analytical Chemistry (Fundamental Problems in Inorganic and Analytical Chemistry)
		Specialized subject II	Select one of the following three subject groups: Advanced Organic • Polymer Chemistry (Catalytic Reactions, Multistep Synthesis, Precise Synthesis, Reaction Mechanism),

			Advanced Physical Chemistry (Kinetics, Molecular Structure), Advanced Inorganic • Analytical Chemistry (Specialized Problems in Inorganic and Analytical Chemistry)
Smart Innovation Program (Electrical, Systems, and Control Engineering)	Electrical, Systems, and Control Engineering	Specialized subject I	Answer three problems about linear algebra, infinitesimal calculus, and probability and statistics.
		Specialized subject II	Select and answer three questions that you select from problems about electric circuit theory, control engineering, electronics circuit, logic circuit, mathematical programming, ordinary differential equations.

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 relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (7) from the website of the Graduate School of Advanced Science and Engineering.

No	書類等名	摘要				
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>If you are a graduate, make sure that the certificate includes information about your degree.</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"> <thead> <tr> <th>Graduate</th> <th>Prospective graduate</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> ・教育部学历证书电子注册备案表* ・毕业证书 ・学士(硕士)学位证书 </td> <td> <ul style="list-style-type: none"> ・教育部学籍在线验证报告* ・毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, August 9, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> ・教育部学历证书电子注册备案表* ・毕业证书 ・学士(硕士)学位证书 	<ul style="list-style-type: none"> ・教育部学籍在线验证报告* ・毕业预定证书
Graduate	Prospective graduate					
<ul style="list-style-type: none"> ・教育部学历证书电子注册备案表* ・毕业证书 ・学士(硕士)学位证书 	<ul style="list-style-type: none"> ・教育部学籍在线验证报告* ・毕业预定证书 					
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 of (2) in the section "IV Application Eligibility".</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	Certificate of English language proficiency	<p>Submit the original score certificate of either of the following examinations. Refer to Caution 3 below for the details.</p> <ul style="list-style-type: none"> ・ TOEIC® Public Test ・ TOEIC®-IP ・ TOEFL®-PBT ・ TOEFL®-iBT ・ TOEFL®- ITP ・ IELTS® ・ Cambridge English Qualifications 				
5	Copy of Residence Card	<p>Only for foreign applicants residing in Japan.</p> <p>If your address is written on the back side of the card, make a two-sided copy.</p>				
6	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).				
7	Registration of selected subject for Applicants of Quantum Matter Program	Use the specified form to prepare.				

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of application eligibility need not submit the document No. 1 and 2 above.

(Caution 3)

- ① Quantum Matter Program will use the scores of either of the certificates listed above in place of a written foreign language (English) examination.

- ② The applicant is required to submit, along with other required documents, the original score certificate of either of these examinations. The score certificate is not allowed to be replaced once it has been submitted. The submitted score certificate will be returned to the applicant after confirmation.
- ③ The applicant who is unable to submit the original score certificate during application period must submit, along with other required documents, a document (no specified form) stating that they will submit their score certificate of English language proficiency later. Subsequently the applicant must submit the score certificate by 13:00, Thursday, August 25, 2022 to the Student Support Office, Graduate School of Science (1st floor of the Advanced Sciences of Matter).
- ④ The applicant who wishes to send their score certificate of TOEIC®-IP collectively conducted for all Hiroshima University undergraduate students and does not have their score certificate at hand must contact the Student Support Office, Graduate School of Science.
- ⑤ The applicant who does not submit their score certificate of English language proficiency will receive 0 (zero) points for a written foreign language (English) test.

2. Selection Process

(1) Basic Policy

Academic abilities (based on the written examination and the oral examination), English (based on the certificate of English language proficiency), and the submitted documents (e.g., academic transcript) will be comprehensively evaluated.

(2) Evaluation Criteria

【Written Examination】 Basic subject (max. 100 points); specialized subject (max. 400 points)

Questions to measure basic academic abilities and scientific reasoning sufficient to learn in the graduate school.

【Oral Examination】 Motivation, aptitude for the desired subject of study and basic academic abilities will be evaluated in three-level evaluation (A, B, C) .

【English】 max. 100 points (converted from the score certificate of English language proficiency)

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

(3) Schedule of Written Examination and Oral Examination

Written Examination			Oral Examination
Thursday, August 25	Specialized subject	9 : 00~12 : 00	Friday, August 26, 9:00-
	Basic subject	13 : 30~15 : 00	

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

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

(4) Contents of Written Examination

Field ※	Category	Examination Subjects
Physics	Basic subject	Mathematics
	Specialized subject	<ul style="list-style-type: none"> • Classical Mechanics • Electromagnetism • Quantum Mechanics • Statistical Thermodynamics (answer four questions above)
Electronic Engineering	Basic subject	Mathematics
	Specialized subject	<ul style="list-style-type: none"> • Electromagnetism • Electric Circuits • Semiconductor Engineering

		• Quantum Mechanics (answer three out of the above questions)
--	--	--

※ 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”

Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (1, 5, 6 and 7) from the website of the Graduate School of Advanced Science and Engineering.

No	Document name	Note								
1	Personal History	Use the specified form to prepare.								
2	Academic Transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.								
3	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. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. 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>· 教育部学历证书电子注册备案表*</td> <td>· 教育部学籍在线验证报告*</td> </tr> <tr> <td>· 毕业证书</td> <td>· 毕业预定证书</td> </tr> <tr> <td>· 学士(硕士)学位证书</td> <td></td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, August 9, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlzx/bgys.jsp</p>	Graduate	Prospective graduate	· 教育部学历证书电子注册备案表*	· 教育部学籍在线验证报告*	· 毕业证书	· 毕业预定证书	· 学士(硕士)学位证书	
Graduate	Prospective graduate									
· 教育部学历证书电子注册备案表*	· 教育部学籍在线验证报告*									
· 毕业证书	· 毕业预定证书									
· 学士(硕士)学位证书										
4	Certificate of Expected Application for the Conferment of a Bachelor’s Degree or Certificate of a Bachelor’s Degree	Only for the applicant who falls under the application eligibility of (2) above. <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. 								
5	Copy of Graduation Thesis	Submit a copy of your graduation thesis. The applicant who is preparing the graduation thesis for graduation is required to submit an abstract (with a length of approximately 2,000 characters) in the specified form. The applicant who is able to submit neither the copy of graduation thesis nor the abstract must submit any published thesis which proves your research ability. For the applicant who is unable to submit any of the above documents, refer to the document No. 6.								
6	Research Plan	Submit the summary of your past research and future research plan for your master’s course (with a length of approximately 2,000 characters) in the specified form. The applicant who is unable to submit the document No. 5 must indicate its reason.								
7	Common Issue	Use the specified form to prepare. Pick up any important issue(s) in contemporary society and explain how you expand interdisciplinary and comprehensive research to solve it, in relation to your research plan submitted								

		in the document No. 6, in a way that is easy to understand for those who are not familiar with your specialized field (with a length of approximately 1,500 characters).
8	Score Certificate of English language ability examination or Japanese-Language Proficiency Test	Submit the original score certificate from any of 1 – 4 examinations below or the original score certificate of Japanese-Language Proficiency Test. The printout from internet is not available. The submitted score certificate will be returned to the applicant after the application procedures. The original score certificate from any of the following examinations which was held after April 1, 2019 will be accepted. 1. TOEIC® public test or TOEIC® Institutional Program 2. TOEFL® - PBT 3. TOEFL® - iBT 4. Jitsuyo Eigo Gino Kentei (Test in Practical English Proficiency) 5. Japanese-Language Proficiency Test (N1) (Only for non-native speakers of Japanese) The applicant who has the scores of a foreign language examination other than English and Japanese can submit the original score certificate of the concerned foreign language examination in addition to the original score certificate of either of 1-5 examinations listed above. Upon consultation with the faculty who is expected to be your advisor, choose one foreign language to be evaluated for the entrance examination.
9	Approval Notice of Application Eligibility Evaluation	Only for the applicant who falls under either (9) or (10) of the application eligibility and has successfully passed a preliminary evaluation. Issued by the dean of the Graduate School.
10	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).
11	Copy of Residence Card	Only for foreign applicants residing in Japan. If your address is written on the back side of the card, make a two-sided copy.

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of application eligibility need not submit the document No. 2 and 3 above.

2. Selection Process

(1) Basic Policy

Academic abilities (based on the written examination and the oral examination), foreign language, the academic transcript, graduation thesis, and Common Issue will be comprehensively evaluated.

(2) Evaluation Criteria

【Written examination】 Specialized subject (max. 200 points)

Questions concerning your desired specialized field. Questions concerning a foreign language ability might be asked as well depending on your desired specialized field.

【Oral Examination】 max. 100 points

Motivation, aspirations, and basic research knowledge will be evaluated in scale assessment. Questions concerning a foreign language ability might be asked as well.

【Foreign Language】 max. 100 points (converted from scores of either the English language ability examination or Japanese-Language Proficiency Test)

(3) Written Examination and Oral Examination Schedule

Written Examination (Specialized Subject)	Oral Examination
Thursday, August 25, 9:00 – 11:00	Friday, August 26, 9:00- (approximately 30 minutes for each examinee)

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

Transdisciplinary Science and Engineering Program (Development Science)

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (1, 2, 6, 7 and 8) from the website of the Graduate School of Advanced Science and Engineering.

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 (Development Science)	Use the specified form to prepare.				
3	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 is currently enrolled in or graduated from a graduate school must submit the academic transcript for both the faculty and the graduate school.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. If the certificate does not indicate evaluation criteria of grading, submit another document issued by the university that includes the evaluation criteria.</p>				
4	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 is currently enrolled in or graduated from a graduate school must submit the certificate for both the undergraduate university and the graduate school.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.</p> <p>If you are a graduate, make sure that the certificate includes information about your degree.</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="text-align: center;">Graduate</th> <th style="text-align: center;">Prospective graduate</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 </td> <td> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Tuesday, August 9, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					
5	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. 				
6	Research Plan	Use the specified form to prepare.				
7	Reasons for Application	Use the specified form to prepare.				
8	Letter of approval for taking the entrance examination	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">The applicant who is currently enrolled in a graduate school</td> <td style="width: 50%;">Use the specified form to prepare. The applicant who is enrolled in other graduate school must submit a letter of approval for taking</td> </tr> </table>	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 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 dean of the graduate school
		The applicant who works in private company, international organization, governmental organization, local government, or educational organization	Use the specified form to prepare. The applicant who currently works in private company, international organization, governmental organization, local government, or educational organization and wishes to enroll in our graduate school while in service must submit a letter of approval for taking the entrance examination issued by the organization.
9	Japanese Government (MEXT) Scholarship Certificate	Only for Japanese Government (MEXT) Scholarship recipients	
10	Certificate of Japanese language Test Score (The original only)	<ul style="list-style-type: none"> ▪ The score of one of the following Japanese language tests: (1)Japanese Language Proficiency Test, (2)Japanese Examination of Japanese University Admission for International Student (EJU), (3)Final Examination of Preparatory Education for the Foreign Government-sponsored Students granted by the Japanese government in China and Malaysia, or (4)J.Test. ▪ Score certificates must be official and original issued by the respective organizations of the examinations. Any other kinds of score documents or photocopy of the certificates are not acceptable. The tests <u>taken within 2 years before the examination date is preferred.</u> 	
11	Certificate of English language Test Score (The original only)	<ul style="list-style-type: none"> ▪ The score of one of the following English language tests : (1)Test of English for International Communication (TOEIC(L&R)), (2)Test of English as a Foreign Language (either TOEFL-iBT, TOEFL-PBT or TOEFL-CBT), (3) International English Language Testing System (IELTS). Or (4) STEP Eiken. ▪ TOEIC-IP(L&R) or TOEFL-ITP results can be accepted if they are held in a university or an equivalent educational institution. For the scores of the tests held by non-educational organizations, please confirm with Student Support office beforehand. ▪ Score certificates must be official and original issued by the respective organizations of the examinations. Any other kinds of score documents or photocopy of the certificates are not acceptable. 	
12	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).	
13	Copy of Residence Card	Only for foreign applicants residing in Japan. If your address is written on the back side of the card, make a two-sided copy.	

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of application eligibility need not submit the document No. 3,4, 6 and 7 above.

(Caution 3) The applicant who is unable to submit the original score certificate of either of Japanese or English language ability examinations listed above must submit instead the official document issued by the university that certifies that you have passed through the school education program in the university in a foreign country with English being the medium of instruction.

2. Selection Process

(1) Basic Policy

Academic abilities (based on the Written Examination and the Oral Examination), etc., will be comprehensively evaluated.

(2) Evaluation Criteria

【Written Examination (Basic subject and Specialized subject)】

In principle, the applicant who has marked higher than 60% of the total scores will be accepted.

Point allocation for each subject: Basic subject (max. 100 points); Specialized subject (max. 100 points)

【Oral Examination】

The results of the Oral Examination in the style of interview will be evaluated in scale of three level indicated below. And also, the Oral Examination includes the 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, August 25, 9:00 – 11:00	Friday, August 26, 9:00 -

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

(4) Subjects of Written Examination

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

Subject	Scope and Subject Name
Basic subject	Questions concerning basic fields of Engineering, Science and Agriculture <input type="radio"/> Transdisciplinary Science and Engineering (Development Science)
Specialized subject	<input type="radio"/> Transportation and Urban Planning <input type="radio"/> Urban and Building Environment <input type="radio"/> Environmental Physics for Sustainable Architecture <input type="radio"/> Functional Plant Sciences <input type="radio"/> Energy Science and Technology <input type="radio"/> Ecology <input type="radio"/> Environmental Health Science <input type="radio"/> Urban Environmental Science <input type="radio"/> Urban Mobility Science

VI Application Procedure

1. Application Method

Apply via internet and submit the application documents.

- ① Input the information regarding the application on the website.
- ② Pay the entrance examination 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 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 ①, ②, and ③ described above in the “1. Application Method” during the application period.

Friday, July 15, 2022 - Friday, July 22, 2022 no later than 17:00

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, Friday, July 22. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, July 20.

3. Application via internet

◆ Inquiry regarding the system

Online application help desk (Japanese Speaking Only)

Service Hours: 10:00 - 18:00 (closed on Saturday, Sunday, and national holidays from April to the end of July)

Tel: 03-5952-3902

UCARO Support Office (Japanese Speaking Only)

Service Hours: 10:00 - 18:00

Tel: 03-5952-2114

- For inquiries regarding the entrance examination, refer to the respective Support Office listed in the section "II 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, and Saka Town)
- Complete the following 8 steps during the application period.

Step 1: Access the Internet Application System.

Access the following web page:

Hiroshima University's Admission Information
<https://www.hiroshima-u.ac.jp/en/nyugaku>



Step 2: Select the item "Registration for UCARO" on the login screen of UCARO.

Account registration for UCARO system is required for application (free for charge).

Hiroshima University uses the system of UCARO for checking the applicant's number and processing a part of admission procedure for the applicant who will pass the entrance examination.

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

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

Step 4: Input the information regarding the application in the Internet Application System.

Follow the instruction shown on the screen to input your name, address, etc.

The applicant can choose the prospective academic advisors 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 advisors from the 1st choice to the 3rd choice (All Required), not their personal names.

Step 5: Upload your photograph.

Follow the instruction shown on the screen to upload the digital data of your photograph (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.

Step 6: Pay the entrance examination fee of 30,000 yen.

Select either of the following payment method on the "Input Payment Information" screen:

1. Credit card: VISA, MasterCard, JCB, AMERICAN EXPRESS, Diners Club
2. Convenience store: 7-ELEVEN, Lawson, MINISTOP, FamilyMart, Daily Yamazaki, and Seicomart
3. ATM of a financial institution [Pay-easy]
4. Net banking

(Caution)

- The applicant has to pay the charge for use of the Internet Application System (1,000 yen per application) in addition to the entrance examination fee.
- MEXT Scholarship students who have applied for (or intend to apply for) extension of scholarship payment period are exempted from the entrance examination 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 examination 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 examination 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 Office listed in the section "II Programs and Number of Students to be Admitted" (page 8) before Friday, February 24, 2023.

The charge for use of the Internet 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 examination fee is duplicated.

Step 7: Complete the registration of the application information.

Write down the application number of six digits that is shown on the screen.

Step 8: Deliver or mail the application documents.

Deliver or mail your application documents specified by the Program to the respective Support Office listed in the section "II 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 Friday, July 22. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, July 20.

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.

VII Miscellaneous

1. Instruction for Application

- (1) Consult with the faculty who is expected to be your academic supervisor about your research theme before applying. For the information regarding the 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 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 for Earth and Planetary Systems Science Program in Science Programs, Engineering Programs & Informatics an Data Science Program, and Quantum Matter Program will be used for the following purposes.
- ① Entrance examination
 - ② Statistics and analysis of a 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 requested to submit the application form (in free format) which contains the following information to the respective Support Office listed in the section "II Programs and Number of Students to be Admitted" to arrange a consultation.

A. Period for the consultation: Monday, June 27 - Friday, July 1, 2022

B. Information to be described in the application

- ① Name & address of the applicant (the phone number must be included)
- ② Name of the university from which the applicant has graduated, Program for which the applicant will apply, and the name of the faculty who is expected to be the applicant's academic supervisor
- ③ Type and severity of the disability (submit a medical certificate issued by a doctor if the applicant is in treatment)
- ④ Measures to be taken for the entrance examination
- ⑤ Measures to be taken for education in the Graduate School
- ⑥ Specific measures that were taken in the university from which the applicant has graduated
- ⑦ 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 the 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 purposes nor provide it to the person other than our concerned faculty and staffs.

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

① The enrollment fee once paid will not be returned for any reason.

② The amounts listed above are as of April 2022. 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	Evaluation results of the Oral Examination and the application documents (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 October 1, 2022 to November 30, 2022 for October 2022 admission, and the period from April 1, 2023 to May 31, 2023 for April 2023 admission.

(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 Hiroshima University 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 2022 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 Offices listed in the section “II Programs and Number of Students to be Admitted”.

1 Examinations to which the Special Measure is Applied

The entrance examinations held in the 2022 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 Offices listed in the section “II Programs and Number of Students to be Admitted”, 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 the 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 the item (2) of the "4 The Applicant Eligible for Exemption" above)

7 Application Process (Internet Application)

Refer to the PDF file available from 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 Offices listed in the section “II Programs and Number of Students to be Admitted”.