

April 2023 admission (B Term)

Graduate School of Advanced Science and Engineering

(Master's Course)

Division of Advanced Science and Engineering

General Selection Application Guidebook

Mathematics Program

Physics Program

Earth and Planetary Systems Science Program

Chemistry Program

Applied Chemistry Program

Chemical Engineering Program

Electrical, Systems, and Control Engineering Program

Transportation and Environmental Systems Program

Civil and Environmental Engineering Program

Informatics and Data Science Program

Smart Innovation Program

(Applied Chemistry)

Smart Innovation Program

(Electrical, Systems, and Control Engineering)

Transdisciplinary Science and Engineering Program

(Environmental and Natural Sciences)

Transdisciplinary Science and Engineering Program

(Development Science)

November 2022



HIROSHIMA UNIVERSITY

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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 a good grounding in relevant subjects:

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

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

2. Admission Policy of each Program

[Mathematics Program]

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

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

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

[Physics Program]

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

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

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

[Earth and Planetary Systems Science Program]

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

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

planetary systems science;

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

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

[Chemistry Program]

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

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

[Applied Chemistry Program]

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

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in 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 oral, written, and/or external examinations.

[Chemical Engineering Program]

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

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in chemical 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 chemical engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

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

[Electrical, Systems, and Control Engineering Program]

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

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

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

[Transportation and Environmental Systems Program]

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

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

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

[Civil and Environmental Engineering Program]

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

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

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

[Informatics and Data Science Program]

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

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

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

[Smart Innovation Program]

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

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

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

[Transdisciplinary Science and Engineering Program]

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

- ① An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;
- ② 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 oral, written, and/or 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 April 2023 admission to the Master's Course as indicated below.

【April 2023 Admission (B Term)】

Division	Program	Capacity	Admission capacity	Venue for examination	Contact Submission address for application documents
Division of Advanced Science and Engineering	Mathematics Program	436	Several students	School of Engineering and School of Science, Hiroshima University	Support Office for the fields of Science 739-8526 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468
	Physic Program				
	Earth and Planetary Systems Science Program				
	Chemistry Program				
	Applied Chemistry Program				Support Office for the fields of Engineering 739-8527 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7518, 7519
	Chemical Engineering Program				
	Electrical, Systems, and Control Engineering Program				
	Transportation and Environmental Systems Program				
	Civil and Environmental Engineering Program				
	Informatics and Data Science Program				Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-6316
	Smart Innovation Program (Applied Chemistry)				
	Smart Innovation Program (Electrical, Systems, and Control Engineering)				
	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)

- For Mechanical Engineering Program and Architecture Program, the selection for April 2023 admission will be suspended.
- For Quantum Matter Program, the selection will be separately held. For the details, refer to the following website.
URL: https://www.hiroshima-u.ac.jp/en/adse/admission/m_admission
- The specific venue of the entrance examination will be notified after the application.
- Consult with the faculty who is expected to be your academic supervisor about your research theme before applying.

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

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



III Outline of Entrance Examination

1. Schedule of the Entrance Examination

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

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Thursday, January 5, 2023 – Thursday, January 12, 2023	9:00-, Friday, January 27, 2023	Written Examination Oral Examination	Planned to be 12:00-, Wednesday, February 15, 2023
	(Preliminary day: Saturday, January 28, 2023)		

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

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Thursday, January 5, 2023 – Thursday, January 12, 2023	9:00-, Thursday, January 26, 2023	Written Examination	Planned to be 12:00-, Wednesday, February 15, 2023
	9:00-, Friday, January 27, 2023	Oral Examination	
	(Preliminary day: Saturday, January 28, 2023)		

(Caution)

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

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 procedure described in the section "VI Application Procedure".

(2) Deliver or mail your application documents specified by each 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 for the applicant who delivers the application documents.

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

later than 17:00, Thursday, January 12. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 10.

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 March 31, 2023 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 Evaluation

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

a) Application Period

Monday, December 5, 2022 - 17:00, Friday, December 9, 2022

(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

【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 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	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	<p>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.</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>· 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>· 学士学位证书</td> <td></td> </tr> </tbody> </table> <p>* Obtain the document through "中国高等教育学生信息网 (CHSI)".</p> <p>There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	· 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									
· 学士学位证书										

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

- (2) The results of the preliminary evaluation will be notified to the applicants by Monday, December 26, 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 the application documents and selection process vary for each program.

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

Program	Category	Page(s) to be referred
Mathematics Program	Science Programs	Pages 16 to 18
Physics Program		
Earth and Planetary Systems Science Program		
Chemistry Program		
Applied Chemistry Program	Engineering Programs & Informatics and Data Science Program	Pages 19 to 23
Chemical Engineering Program		
Electrical, Systems, and Control Engineering Program		
Transportation and Environmental Systems Program		
Civil and Environmental Engineering Program		
Informatics and Data Science Program		
Smart Innovation Program (Applied Chemistry)		
Smart Innovation Program (Electrical, Systems, and Control Engineering)		
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)		Pages 24 to 26
Transdisciplinary Science and Engineering Program (Development Science)		Pages 27 to 29

Science Programs

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

1. Application Documents

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

No	Document name	Note				
1	Academic Transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
2	Certificate of Graduation or Certificate of Expected Graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>The applicant who graduated or is expected to graduate from 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 through "中国高等教育学生信息网(CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	<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	Certificate of English -language Proficiency	<p>Only for the applicant for Earth and Planetary Systems Science Program and Chemistry Program.</p> <p>Submit the original score certificate of TOEIC® public test, TOEIC®-IP (including College TOEIC®), TOEFL®-CBT, TOEFL®-PBT, or TOEFL®-iBT. If you want your certificate to be returned, please inform us in advance at the time of application.</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 application eligibility need not submit the document No. 1 and 2 above.

2. Selection Process

(1) Basic Policy

○Mathematics Program

The written examination (specialized subject) and the oral examination are given to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities while the written examination (foreign-language proficiency) to evaluate the language proficiency required for the Program. Foreign applicants are required to consult with the Support Office in advance about selection process.

○Physics Program

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

○Earth and Planetary Systems Science Program

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

○Chemistry Program

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

(2) Evaluation Criteria

○Mathematics Program

The results of the written examinations (specialized subject and foreign-language proficiency) and the oral examination and the academic transcript will be comprehensively evaluated.

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

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

【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Physics Program

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

【Written examination】 Scale of 1 to 4 (A, B, C, D)

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

【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Earth and Planetary Systems Science Program

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

【Written examination】 Scale of 1 to 4 (A, B, C, D)

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

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

【Academic transcript】 Scale of 1 to 3 (A, B, C)

○Chemistry Program

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

【Written examination】 Scale of 1 to 4 (A, B, C, D)

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

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

【Academic transcript】 Scale of 1 to 3 (A, B, C)

(3) Written Examination and Oral Examination Schedule

Program name	Written examination		Oral examination
Mathematics Program	Friday, January 27	Specialized subject 9 : 00 - 12 : 00 Foreign-language proficiency 13 : 30 - 14 : 30	15:00 -, Friday, January 27

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

(Caution 2) Foreign applicants are required to consult with the Support Office in advance about the examination language for the written examination in specialized subject.

(Caution 3) For contents of the written examination in specialized subject and the use of a dictionary

in the written examination in foreign-language proficiency, refer to the "(4) Contents of the Written Examination in Specialized Subject and the Use of a Dictionary in the Written Examination in Foreign-language Proficiency."

(Caution 4) The details of the oral examination will be notified when sending the examination card and on the examination day.

Program name	Written examination and oral examination
Physics Program	9:00-, Friday, January 27
Earth and Planetary Systems Science Program	
Chemistry Program	

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

(Caution 2) The applicants for Physics Program are required to consult with the faculty who is expected to be your academic supervisor in advance.

(Caution 3) For contents of the written examination in specialized subject, refer to the "(4) Contents of Written Examination in Specialized Subject and Use of Dictionary in Written Examination in Foreign-language Proficiency."

(4) Contents of Written Examination in Specialized Subject and Use of Dictionary in Written Examination in Foreign-language Proficiency

Program name	Contents
Mathematics Program	Basic questions concerning mathematics The use of a dictionary will not be allowed during the written examination in foreign-language proficiency
Physics Program	Questions concerning dynamics, electromagnetics, quantum dynamics, and thermal / statistical dynamics
Earth and Planetary Systems Science Program	Basic questions concerning earth and planetary systems science
Chemistry Program	Basic questions concerning chemistry

Engineering Programs & Informatics and Data Science Program

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

1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the Support Office indicated in the "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 and advanced course.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.</p>				
2	Certificate of Graduation or Certificate of Expected Graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>If the certificate does not indicate that you were conferred a bachelor's degree, submit another document that proves it.</p> <p>The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted.</p> <p>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <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 through "中国高等教育学生信息网(CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	<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	Submit the original score certificate of either of the following examinations which was held in the period from May 2019 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. <ul style="list-style-type: none"> • TOEIC® Public Test L&R • TOEIC®-IP L&R (including College TOEIC®) • 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 Civil and Environmental Engineering Program	Only for the applicant for Civil and Environmental Engineering Program. Use the specified form to prepare.
8	Registration of Selected Subject for Applicants of Smart Innovation Program	Only for the applicant for Smart Innovation 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

○ Applied Chemistry Program, Chemical Engineering Program, Electrical, Systems, and Control Engineering Program, Transportation and Environmental Systems Program, Civil and Environmental Engineering Program, Smart Innovation Program (Applied Chemistry), Smart Innovation Program (Electrical, Systems, and Control Engineering)

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

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

【Oral examination】 Max. 100 points

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

【Academic transcript】 Scale of 1 to 4

○Informatics and Data Science Program

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

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

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

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

【Academic transcript】 Scale of 1 to 4

(3) Written Examination and Oral Examination Schedule

Program name	Written examination			Oral examination
Applied Chemistry Program	Thursday, January 26	Specialized subject I	9 : 00 - 12 : 00	9:00-, Friday, January 27
		Specialized subject II	13 : 30 - 15 : 00	
Chemical Engineering Program	Thursday, January 26	Specialized subject I	9 : 00 - 12 : 00	
		Specialized subject II	13 : 30 - 15 : 00	
Electrical, Systems, and Control Engineering Program	Thursday, January 26	Specialized subject I	9 : 00~12 : 00	
		Specialized subject II	13 : 30~14 : 30	
Transportation and Environmental Systems Program	Thursday, January 26	Specialized subject I	9 : 00 - 12 : 00	
		Specialized subject II	13 : 30 - 15 : 00	
Civil and Environmental Engineering Program	Thursday, January 26	Specialized subject I	9 : 00~11 : 30	
		Specialized subject II	13 : 30~15 : 30	
Informatics and Data Science Program	Thursday, January 26	Specialized subject I	9 : 00~11 : 00	
		Specialized subject II	13 : 30~15 : 30	
Smart Innovation Program (Applied Chemistry)	Thursday, January 26	Specialized subject I	9 : 00 - 12 : 00	
		Specialized subject II	13 : 30 - 15 : 00	
Smart Innovation Program (Electrical, Systems, and Control Engineering)	Thursday, January 26	Specialized subject I	9 : 00~12 : 00	
		Specialized subject II	13 : 30~14 : 30	

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

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

(4) Contents of Written Examination

Program name	Subject name	Category	Contents
Applied Chemistry Program	Applied Chemistry	Written examination (Specialized subject I)	Organic and Polymer Chemistry, Inorganic and Analytical Chemistry, Physical Chemistry

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

		Written examination (Specialized subject II)	<p>Essay A: your knowledge and problem-solving skills in the area of Civil and Environmental Engineering will be evaluated.</p> <p>Essay B: Review of previous studies regarding a desired research topic</p> <p>※A list of reviewed papers must be submitted at the examination. The list must follow the format specified in the following URL. https://www.hiroshima-u.ac.jp/system/files/198270/references.doc</p>
		Oral examination (Interview)	Your motivation and capability for the desired subject of study, as well as your understanding in the desired specialized field will be evaluated.
Informatics and Data Science Program	Informatics and Data Science	Written examination (Specialized subject I)	Answer four questions about the following subjects: 1. Linear Algebra, 2. Advanced Calculus and Ordinary Differential Equations, 3. Probability and Statistics, 4. Discrete Mathematics.
		Written examination (Specialized subject II)	Select and answer three questions from the following subjects: 1. Information Theory, 2. Algorithms and Data Structures, 3. Programming Language, 4. Computer Architecture and Digital Circuits, 5. Statistical Estimation and Testing, 6. Machine Learning. Requested to answer the additional problem to evaluate your knowledge and problem solving skills in the area of Informatics and Data Science.
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and basic academic abilities will be evaluated.
Smart Innovation Program (Applied Chemistry)	Applied Chemistry	Written examination (Specialized subject I)	Organic and Polymer Chemistry, Inorganic and Analytical Chemistry, Physical Chemistry
		Written examination (Specialized subject II)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Applied Chemistry.
		Oral examination (Interview)	Your motivation, aptitude for the desired subject of study, and understanding in the desired specialized field will be evaluated.
Smart Innovation Program (Electrical, Systems, and Control Engineering)	Electrical, Systems, and Control Engineering	Written examination (Specialized subject I)	Select and answer three questions from the following subjects: 1. Linear Algebra, 2. Calculus, 3. Electric Circuit Theory, 4. Linear Programming.
		Written examination (Specialized subject II)	Essay is given to evaluate your knowledge and problem-solving skills in the area of Electrical, Systems, and Control Engineering.
		Oral examination (Interview)	Requested to present your past research and a future research plan, and answer questions in the style of interview.

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 Support Office indicated in the "II Programs and Number of Students to be Admitted". Download the specified forms (1, 5 and 6) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document Name	Note				
1	Personal History	Use the specified form to prepare.				
2	Academic Transcripts	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> <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 through "中国高等教育学生信息网(CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	<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 					
4	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. 				
5	Copy of Graduation Thesis	<p>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 1,000 words) in the specified form. The applicant who is unable to submit either the copy of graduation thesis or the abstract must submit any published thesis which proves your research ability. For the applicant who is unable to submit either of the above documents, refer to the document No. 6.</p>				
6	Research Plan	<p>Submit the summary of your past research and future research plan for your master's course (with a length of approximately 1,000 words) in the specified form. The applicant who is unable to submit the document No. 5 must indicate its reason.</p>				

7	Score Certificate of English language Ability Examination or Japanese-language Proficiency Test	<p>Submit the original score certificate of either of 1–3 English language ability 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 confirmation.</p> <p>The original score certificate of either of the following examinations which was held after April 1, 2019 will be accepted.</p> <ol style="list-style-type: none"> 1. TOEIC® public test or TOEIC® Institutional Program 2. TOEFL® - iBT 3. Jitsuyo Eigo Gino Kentei (Test in Practical English Proficiency) 4. Japanese-Language Proficiency Test (N1) (Only for non-native speakers of Japanese) <p>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 1-4 examinations listed above. Upon consultation with the faculty who is expected to be your academic supervisor, choose one foreign language to be evaluated for the entrance examination.</p>
8	Approval Notice of Application Eligibility Evaluation	<p>Only for the applicant who has successfully passed a preliminary evaluation of application eligibility under the application eligibility(9) or (10).</p> <p>Issued by the dean of the Graduate School of Advanced Science and Engineering, Hiroshima University.</p>
9	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>
10	Return Envelope	<p>Use 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).</p>

(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 research plan will be comprehensively evaluated.

(2) Evaluation Criteria

【Written examination】 Essay (Level evaluation is performed.)

Pick up any important issue(s) in contemporary society and explain how you expand transdisciplinary and comprehensive research between your specialized field and others to solve it(/them) (with a length of approximately 1,000 words in English or 1,500 characters in Japanese).

【Oral Examination】 Level evaluation is performed.

- Specialized subject; oral assessment concerning your desired specialized field
 - Common examination; motivation, aspirations and research elements
- Questions concerning a foreign language ability might be asked as well.

【Foreign Language】 Level evaluation is performed.

Converted from scores of either the English language ability examination or Japanese-Language Proficiency Test

(3) Written Examination and Oral Examination Schedule

Written Examination (Essay)	Oral Examination (Specialized subject and Common examination)
Thursday, January 26, 9:00 – 11:00	Friday, January 27, 9:00 (approximately 30 minutes for each examinee)

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

No	Document Name	Note				
1	Personal History	Use the specified form to prepare.				
2	Registration of Selected Subject for Applicants of Transdisciplinary Science and Engineering Program (Development Science)	Use the specified form to prepare.				
3	Research Plan	Use the specified form to prepare. A detailed research plan written in either Japanese or English				
4	Reasons for Application	Use the specified form to prepare.				
5	Academic Transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The applicant who is currently enrolled in or has completed a graduate school must submit the academic transcript for both the faculty and the graduate school. If the certificate does not indicate evaluation criteria of grading, submit another document issued by the university that includes the evaluation criteria.				
6	Certificate of Degree Awarded or Certificate of (Expected) Graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The applicant who is currently enrolled in or has completed a graduate school must submit the certificate for both the undergraduate university and the graduate school. If you are a graduate, make sure that the certificate includes information about your degree. The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <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 through "中国高等教育学生信息网(CHSI)". There should be 15 or more days left until the expiration date of the online verification at the time of its submission. https://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	<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
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<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 					

7	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 (2). <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. 	
8	Letter of Approval for Taking the Entrance Examination	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 recipient's	
10	Certificate of Japanese language Test Score	<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. The tests <u>taken within 2 years before the examination date</u> is preferred. 	
11	Certificate of English language Test Score	<ul style="list-style-type: none"> The score of one of the following English language tests : (Japanese students must choose English) (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. (Applicants whose first language is English are not required to submit this certificate.) The tests <u>taken within 2 years before the examination date</u> is preferred. 	
12	Copy of Residence Card	All international applicants who are residing in Japan at the time of application must submit (double side).	
13	Return Envelope	Use 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. 3,4, 5 and 6 above.

(Caution 3) If an applicant is unable to submit "Language Test Score Certificate", an official document made by the university which certifies that the medium of instruction in the foreign institution which the applicant has attended/is attending is English will be accepted.

(Caution 4) Submit a GRE General Test Official Score, if available. (The submission of the GRE score is

optional.) The Official Score Report must be sent by ETS directly to Hiroshima University (Institution Code: 2358) no later than the submission period. (The Examinee Score Report sent to applicants from ETS is acceptable as well.)

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, January 26, 9:00 – 11:00	Friday, January 27, 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 both 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 application fee of 30,000 yen.
- ③ Deliver or mail the application documents.

(Caution)

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

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.

Thursday, January 5, 2023 - 17:00, Thursday, January 12, 2023

In the case of ③ (submission via mail), the documents must be sent in a registered mail and reach us no later than 17:00, Thursday, January 12. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 10.

3. Application via Internet

◆ Inquiry regarding the system

Online Application Help Desk (Japanese Speaking Only)

Inquires accepted from 10:00 to 18:00 (Except from December 30 to January 3)

Tel: 03-5952-3902

UCARO Support Office (Japanese Speaking Only)

Inquires accepted from 10:00 to 18:00 (Except from December 30 to January 3)

Tel: 03-5952-2114

- For inquiries regarding the entrance examination, refer to the respective Support 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, Kumano Town, and Saka Town)

- Complete the following 8 steps during the application period.

Step 1: Access the online application system

Access the following web page:

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



Step 2: Select "UCARO Account Registration" on the UCARO log in screen

Account registration for UCARO system is required for application (free of 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: Enter the Account (Exemption category only)

The applicant who applies for exemption of the entrance application 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 enter them.

Step 4: Input your application data into the online application system

Follow the instruction on the screen and enter your name, address, etc.

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

Step 5: Upload your photo

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

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

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

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

Step 6: Payment of entrance application fee (JPY 30,000)

Choose the method of payment from the following list.

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

(Caution)

- The applicant has to pay the charge for use of the online application system (1,000 yen per application) in addition to the entrance application fee.
- MEXT Scholarship students who have applied for (or intend to apply for) extension of scholarship payment period are exempted from the entrance application fee. Those students who are enrolled in the university other than Hiroshima University at the time of application are required to submit the following two documents:
 - (1) MEXT Scholarship Certificate
 - (2) The document which proves that the applicant has applied for (or intends to apply for) extension of scholarship payment period (must be issued by the university the applicant is enrolled in).
- The entrance application fee once paid will not be returned for any reason after the application is accepted except for the following cases of (1) or (2).

In either case of (1) or (2), the entrance application fee once paid will be returned after deducting the transfer fee from it. "Refunded Invoice for Entrance Examination Fee" will be sent to you. Fill in the required information, put your personal seal, and mail it back to the respective Support Office listed in the section "II Programs and Number of Students to be Admitted" before Friday, February 24, 2023.

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

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

Step 7: Initial registration process complete (Your application is NOT completed yet.)

Write down the Registration Number of six digits 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 Thursday, January 12. The documents received after this time shall be accepted only when it is postmarked no later than Tuesday, January 10.

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

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



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

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

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

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

A. Period for the consultation: Monday, December 5 - Friday, December 9, 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 admission procedures. After the enrollment, Hiroshima University will manage the information for the purposes of student support (e.g. application for scholarship and tuition exemption)

and investigation & research activities (e.g. improvement of the entrance examination system, investigation and analysis on the trend of application). We neither use the information for the other purpose nor provide it to the person other than our concerned faculties and the staff.

4. Admission Procedure

(1) Documents for admission procedure

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

UCARO system is used as a part of the admission procedures.

(2) Fee

A: Enrollment fee: 282,000 yen

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

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	Points for each subject Evaluation for each subject (including the results of the scale assessment)

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

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

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

(4) The "Application for Entrance Examination Result Disclosure" will be accepted during the period from April 1, 2023 to May 31, 2023

(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.

Application Fees Exemption for Prospective Students to Enter Hiroshima University

Hiroshima University will implement special measures for exemption of Application Fees in AY 2022 in order to reduce the financial burden of those affected by natural disasters and secure opportunities for prospective students to enter the university.

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

1. Type of Examinations Subject to Exemption

Entrance examinations conducted in AY 2022 for Schools, Graduate Schools, and Special Course of Special Support Education. (including examinations for re-enrollment and transfer)

2. Details of Exemption

Exemption of Application Fees

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

3. Disasters for Exemption

(1) The Torrential Rains in July 2018

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

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

4. Eligibility for Exemption

Applicants who were affected by any of the disasters that happened in or after August 2019 and to which the Disaster Relief Act was applied or who were affected in the areas to which the Disaster Relief Act was applied following the “The Torrential Rains in July 2018” and who fall under any of the following cases:

(1) When the home owned by the main school expenses supporter was completely destroyed, substantially damaged, or moderately damaged.

(2) When the main household supporter is deceased or missing.

For details on the areas covered by the Disaster Relief Act, access the Cabinet Office website:

https://www.bousai.go.jp/taisaku/kyuujo/kyuujo_tekiyou.html (Japanese text only)

5. How to Apply

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

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

6. Required Documents

(1) “Application for Exemption of Application Fees” which can be downloaded from the Hiroshima University website (<https://www.hiroshima-u.ac.jp/en/nyugaku>)

(2) Disaster damage certificate (photocopy is also acceptable) [Those who fall under 4 (1)]

(3) Document certifying that the main household supporter is deceased or missing (photocopy is also acceptable) [Those who fall under 4 (2)]

7. Online Application Procedures

Refer to the PDF file available in the following website.

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

8. Inquiries

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