

Shizuoka University Special Admissions for International Students
Application Guide for Asia Bridge Program

October 2019 Enrollment, Undergraduate Program
 (Second call for applications)

Shizuoka University holds an entrance examination for international students from the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, the Republic of India, and the Republic of the Union of Myanmar who are enthusiastic about being active globally and contributing to social innovation. After enrollment in October 2019, ABP (Asia Bridge Program) students will intensively study basic subjects (Japanese, Mathematics, etc.) for the first six months. Then they will start taking liberal arts and specialized subjects in each faculty together with Japanese students and graduate in four years. The classes in the program will basically be conducted in Japanese. The approximate levels of Japanese language proficiency expected by each faculty are as shown on Table 1 on Page 10.

[Admission Policy]

ABP fosters individuals who have broad perspective on both technology and management, and play leading roles abroad, especially in the Asian region. ABP graduates are expected to contribute in the following ways in the future:

- They will be able to manage production, marketing, and sales bases throughout Asia.
- They will be able to discuss technologies in the fields of engineering, agriculture and information-communication in Japanese from the perspective of a local human resource, and be able to promote international expansion by taking advantage of the technological and business strengths of Japanese corporations.

I Expected number of student to be enrolled

<u>Humanities</u>	(None)	
<u>Science and Technology</u>		
Faculty of Science	Department of Mathematics Department of Physics Department of Biological Science Department of Geosciences	} A few for each dept.
Faculty of Engineering	Department of Mechanical Engineering Department of Electrical and Electronic Engineering Department of Electronics and Materials Science Department of Applied Chemistry and Biochemical Engineering Department of Mathematical and Systems Engineering	
Faculty of Agriculture	Department of Bioresource Sciences Department of Applied Life Sciences	

II Application Qualifications

Applicants must meet all the conditions in 1) to 5) below.

- 1) Applicants may not hold Japanese citizenship. Otherwise, they must plan to renounce their Japanese citizenship by the time of enrollment. (Applicants who hold Japanese citizenship must contact the admissions office regarding renouncing procedures before applying. See Page 9 for the contact information.)
- 2) Applicants must hold citizenship in the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, the Republic of India, or the Republic of the Union of Myanmar.
- 3) Applicants must be able to obtain an appropriate resident status that allows their enrollment to the university as per the Japanese Immigration Control and Refugee Recognition Act.

- 4) Applicants must meet one of the conditions in (1) to (6) below.
- (1) Applicants must have completed 12 years of school education in the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, or the Republic of India; or must have completed the Senior High School Level Education (aahtaattaann aasaint panyarrayy) in the Republic of the Union of Myanmar or the former Union of Burma (including those who expect to complete said education by September 30, 2019). Otherwise, the Japanese Minister of Education, Culture, Sports, Science, and Technology must have designated applicants as a person who meets this standard.
 - (2) Applicants must have passed an examination in their home country that confirms that they have the academic ability equivalent or greater to (1) above, and they must turn 18 years old by September 30, 2019.
 - (3) Applicants must hold an International Baccalaureate diploma granted by the International Baccalaureate Organization, a foundation based on the Swiss Civil Code.
 - (4) Applicants must hold an Abitur diploma, recognized as a qualification for university admission in the states of the Federal Republic of Germany.
 - (5) Applicants must hold a Baccalaureate diploma, recognized as a qualification for university admission in the French Republic.
 - (6) Applicants must hold a General Certificate of Education, Advanced Level (hereinafter referred to as “GCE A-Level”), recognized as a qualification for university admission in the United Kingdom. For the subjects and evaluation required for application, see Table 2 on Page 10.
- 5) Applicants must have spent no longer than three years of total time enrolled in Japanese secondary schools (equivalent to junior high school and senior high school) during their 12 years in school education or an equivalent course of study. If applicants were enrolled in an international school in Japan, or a school that conforms to the Japanese education system in a country other than Japan, that period of enrollment will be treated equivalently to being enrolled in a Japanese school.

[NOTE] If any points regarding the application qualifications are unclear, please contact us through the contact address shown on Page 9, before applying. If the application contains any fraudulent or otherwise untrue information, admission may be revoked even after it is granted.

III Application Requirements

Applicants must submit their score reports for the Examination for Japanese University Admission for International Students (EJU) and an English language qualification examinations that they have taken since June 25, 2017. The subjects required for application are as shown on Table 3 on Page 11.

Applicants may submit a copy of their examination voucher instead of their score report only for the 1st session of 2019 EJU. In addition, applicants may submit their Japanese-Language Proficiency Test (JLPT) scores taken since June 25, 2017 instead of their EJU score only for Japanese as a Foreign Language.

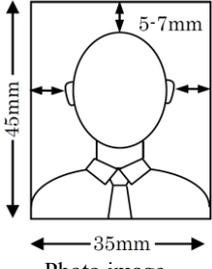
IV How to Apply

Students who wish to apply should prepare all of the documents listed in the following table in accordance with the prescribed format and submit them through the online application site. The application will be complete after submitting all the documents AND pressing the "Final Submission" button during the application period. If any information has been left out or any falsehoods are discovered, the application may not be accepted.

NOTICE

*In case of any discrepancies between the translation and the original Japanese application guide, the Japanese version shall prevail.

1. List of documents to submit

No.	Document name		Submission format	Description
1	Applicant information		Online entry	<ul style="list-style-type: none"> - The required information should be entered on the screen through the online application system. - When registering and applying, the names written in English on the applicant's passport or national identification card should be used. - Applicant information, scores for the various examinations should all be entered without failure.
2	Japanese essay (Reason for applying)		Electronic file (PDF)	Applicants must submit an essay describing their motivation for applying, the academic fields they are interested in, and their desired career path after graduation. (This should be written in Japanese, around 500 characters.)
3	Facial photo		Electronic file (PDF, JPG, GIF, or PNG)	<ul style="list-style-type: none"> - It should be the size shown below, and include margins from the border to the head of 5-7 mm. - It should be taken as a front-facing bust with headwear removed, and within three months prior to applying. (If headwear is used for religious reasons, it will be allowed as long as the face is shown clearly.) - It should have an image resolution of 150 dpi or greater.  <p style="text-align: center;">Photo image</p>
4	Academic transcript	First year	Electronic file (PDF, JPG, GIF, or PNG; 150 dpi or greater)	<ul style="list-style-type: none"> - Applicants must submit a copy of an academic transcript for each academic year that is issued by the principal of the applicant's graduating upper secondary school, and based on the curricula entered in the applicant information. - Applicants must submit a transcript for the third year terms that have been completed by the time of submission. - The academic transcript must include the name of the high school, and the school's official seal or a signature by the school's principal. - If the academic transcript is not written in Japanese or English, then applicants must also submit an electronic file of a Japanese or English translation of the transcript. - Anyone may perform the translation, but the translation must contain the official seal of the organization that performed the translation, or the translator him/herself must sign it by hand. - If possible at the time of application, high school final examination results should be included. <p>[NOTE]</p> <ul style="list-style-type: none"> - Applicants from the Indian education system must submit an academic transcript for the three years from 10th through 12th year of secondary school. - Applicants from the Myanmar's education system must submit an academic transcript for the three years from 4th year of lower secondary school, and 1st and 2nd year of upper secondary school.
5		Second year		
6		Third year		

7	Certification of completion	Electronic file (PDF, JPG, GIF, or PNG; 150 dpi or greater)	<ul style="list-style-type: none"> - A certificate of completion or of qualification. - Among the applicants who meet the conditions in "II Application Qualifications 4", those who have completed (1) should submit the certificate of completion from their graduating upper secondary school that was issued by that school's principal, and those that acquired the qualification in (2) should submit a copy of that certificate of qualification. - Applicants must submit a copy of the original that includes an official seal in an electronic file.
8	EJU (Examination for Japanese University Admission for International Students) score report		<ul style="list-style-type: none"> - Applicants must submit a copy of the score report from one of the following test sessions in an electronic file: 2nd session in 2017, 1st session in 2018, 2nd session in 2018, and 1st session in 2019. - If applicants will use the score from the 1st session in 2019, then they must submit a copy of the examination voucher instead.
9	Score report from English language qualification examination such as <i>TOEIC</i> [®] L&R		<ul style="list-style-type: none"> - Applicants must submit a copy of the score report from the <i>TOEIC</i>[®] L&R, revised <i>TOEFL</i>[®] Paper-delivered Test, <i>TOEFL iBT</i>[®], or IELTS (Academic Module) tests taken <u>since June 25, 2017</u> in an electronic file. - The score report must include the applicant's name, date of birth, and a photo. - The <i>TOEIC</i>[®] L&R IP test, <i>TOEFL ITP</i>[®] test or IELTS (General Training Module) test will not be accepted.
10	JLPT (Japanese-Language Proficiency Test) score report		<ul style="list-style-type: none"> - Applicants who have not taken the EJU Japanese as a Foreign Language examination may not apply without submitting their JLPT score report. - Applicants who have taken the EJU Japanese as a Foreign Language examination should also submit their JLPT score report if they have one. - Applicants may submit a copy of the score report from one of the following test sessions in an electronic file: 1st session in 2017, 2nd session in 2017, 1st session in 2018, and 2nd session in 2018.
11	Consent form *This form is required for applicants who are public employees or corporate employees only.		<ul style="list-style-type: none"> - Those applicants who work for a public office or a company must submit the consent form signed by their employers in an electronic file. - Please download the designated form from the ABP Website.

*TOEIC, TOEFL, TOEFL iBT and TOEFL ITP are registered trademark of Educational Testing Service (ETS). This publication is not endorsed or approved by ETS.

2. Faculties and departments available for applications / Dual applications

The faculties and departments available for applications are shown in Table 3 on Page 11. Dual application is not allowed.

3. Application website

Applications for the Asia Bridge Program entrance examination are all done online. Applicants should apply by following the on-screen directions from the online application website. The online application website will be open only during the application period. For details, please visit the following website.

<http://www.abp.icsu.shizuoka.ac.jp>

If the application process does not go smoothly due to system bugs or errors, applicants should email abpquery@suml.cii.shizuoka.ac.jp

4. Application period

Monday, June 24 – Friday, July 5, 2019

(Applications are accepted until noon Japan Standard Time on July 5.)

5. Schedule from application until enrollment

See the description for each item for more details.

Procedure		Schedule / Period
Application		Monday, June 24 - Friday, July 5, 2019 (until noon, JST)
First selection results announcement		Wednesday, August 7, 2019
Coordination of interview examination dates and connection test dates		Wednesday, August 7 - Thursday, August 8, 2019
Notification of interview examination dates and connection test dates		Friday, August 9, 2019
Skype connection test		Friday, August 16 or Monday, August 19, 2019
Interview Examination	Faculty of Science	Tuesday, August 20 or Wednesday, August 21, 2019
	Faculty of Engineering	
	Faculty of Agriculture	
Second selection results announcement		Friday, August 30, 2019
University registration		Late September, 2019
Enrollment day		Tuesday, October 1, 2019

V Selection Methods

1. Selection methods & point distribution

First selection

The first selection will be made according to the number of points or grades for Japanese language proficiency examinations (EJU Japanese as a foreign language or JLPT), EJU subject tests (Science, Mathematics), and English language qualification examination. Please note applicants will be excluded from the selection if they fail to attain scores of 50% or greater (for the Faculty of Science and Faculty of Engineering) or 60% or greater (for the Faculty of Agriculture) for each scoring classification (1) of the second selection described on Pages 6 through 7.

Second selection

Applicants who pass the first selection will be evaluated according to the following selection methods and point distributions after taking an interview examination.

1) Faculty of Science

Departments	Department of Mathematics, Department of Physics, Department of Biological Science, Department of Geosciences											
Selection methods & point distribution	<p>Applicants who have passed the first selection will pass this second selection according to the results of their EJU (Science, Mathematics), their English language qualification examination, and their interview examination. The languages used in the interview examination will be Japanese and English. The interview examination will include an oral examination (with questions related to the field of specialization).</p> <p>The points earned for (1) academic ability and (2) communication skills shown in the following table will be calculated, and applicants must attain 50% of both portions as the minimum requirement to pass the selection. Applicants will be selected comprehensively in order of their achievements.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #d3d3d3;">Point divisions</th> <th style="background-color: #d3d3d3;">Subjects (EJU and English) & interview examination</th> <th style="background-color: #d3d3d3;">Point distribution</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center;">(1) Academic ability</td> <td>Science [200 points]</td> <td rowspan="2" style="text-align: center;">400 points</td> </tr> <tr> <td>Mathematics (course 2) [200 points]</td> </tr> <tr> <td rowspan="2" style="text-align: center;">(2) Communication skills</td> <td>English language qualification examination [100 points]</td> <td rowspan="2" style="text-align: center;">300 points</td> </tr> <tr> <td>Interview examination (including oral examination) [200 points]</td> </tr> </tbody> </table> <p>Regarding the English language qualification examinations, the total possible score for each examination is converted to the scale of 100% (100 maximum points for each).</p>	Point divisions	Subjects (EJU and English) & interview examination	Point distribution	(1) Academic ability	Science [200 points]	400 points	Mathematics (course 2) [200 points]	(2) Communication skills	English language qualification examination [100 points]	300 points	Interview examination (including oral examination) [200 points]
Point divisions	Subjects (EJU and English) & interview examination	Point distribution										
(1) Academic ability	Science [200 points]	400 points										
	Mathematics (course 2) [200 points]											
(2) Communication skills	English language qualification examination [100 points]	300 points										
	Interview examination (including oral examination) [200 points]											

2) Faculty of Engineering

Departments	Department of Mechanical Engineering, Department of Electrical and Electronic Engineering, Department of Electronics and Materials Science, Department of Applied Chemistry and Biochemical Engineering, Department of Mathematical and Systems Engineering											
Selection methods & point distribution	<p>Applicants who have passed the first selection will pass this second selection according to the results of their EJU (Science, Mathematics), their English language qualification examination, and their interview examination. The languages used in the interview examination will be Japanese and English. The interview examination will include an oral examination (with questions related to the field of specialization).</p> <p>The points earned for (1) academic ability and (2) communication skills shown in the following table will be calculated, and applicants must attain 50% of both portions as the minimum requirement to pass the selection. Applicants will be selected comprehensively in order of their achievements.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #d3d3d3;">Point divisions</th> <th style="background-color: #d3d3d3;">Subjects (EJU and English) & interview examination</th> <th style="background-color: #d3d3d3;">Point distribution</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center;">(1) Academic ability</td> <td>Science [200 points]</td> <td rowspan="2" style="text-align: center;">400 points</td> </tr> <tr> <td>Mathematics (course 2) [200 points]</td> </tr> <tr> <td rowspan="2" style="text-align: center;">(2) Communication skills</td> <td>English language qualification examination [100 points]</td> <td rowspan="2" style="text-align: center;">300 points</td> </tr> <tr> <td>Interview examination (including oral examination) [200 points]</td> </tr> </tbody> </table> <p>Regarding the English language qualification examinations, the total possible score for each examination is converted to the scale of 100% (100 maximum points for each).</p>	Point divisions	Subjects (EJU and English) & interview examination	Point distribution	(1) Academic ability	Science [200 points]	400 points	Mathematics (course 2) [200 points]	(2) Communication skills	English language qualification examination [100 points]	300 points	Interview examination (including oral examination) [200 points]
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	Mathematics (course 2) [200 points]											
(2) Communication skills	English language qualification examination [100 points]	300 points										
	Interview examination (including oral examination) [200 points]											

3) Faculty of Agriculture

Departments	Department of Bioresource Sciences, Department of Applied Life Sciences											
Selection methods & point distribution	<p>Applicants who have passed the first selection will pass this second selection according to the results of their EJU (Science, Mathematics), their English language qualification examination, and their interview examination. The language used in the interview examination will be Japanese. The interview examination will include an oral examination (with questions related to the field of specialization).</p> <p>The points earned for (1) academic ability and (2) communication skills shown in the following table will be calculated, and applicants must attain 60% of both portions as the minimum requirement to pass the selection. Applicants will be selected comprehensively in order of their achievements.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #d3d3d3;">Point divisions</th> <th style="background-color: #d3d3d3;">Subjects (EJU and English) & interview examination</th> <th style="background-color: #d3d3d3;">Point distribution</th> </tr> </thead> <tbody> <tr> <td rowspan="2">(1) Academic ability</td> <td>Science [200 points]</td> <td rowspan="2">400 points</td> </tr> <tr> <td>Mathematics (course 2) [200 points]</td> </tr> <tr> <td rowspan="2">(2) Communication skills</td> <td>English language qualification examination [100 points]</td> <td rowspan="2">400 points</td> </tr> <tr> <td>Interview examination (including oral examination) [300 points]</td> </tr> </tbody> </table> <p>Regarding the English language qualification examinations, the total possible score for each examination is converted to the scale of 100% (100 maximum points for each).</p>	Point divisions	Subjects (EJU and English) & interview examination	Point distribution	(1) Academic ability	Science [200 points]	400 points	Mathematics (course 2) [200 points]	(2) Communication skills	English language qualification examination [100 points]	400 points	Interview examination (including oral examination) [300 points]
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	Mathematics (course 2) [200 points]											
(2) Communication skills	English language qualification examination [100 points]	400 points										
	Interview examination (including oral examination) [300 points]											

2. Methods, Period, and Venue for the Second Selection Interview Examination

1) Applicants from outside of Japan

The interview examination will be held with individual applicants via an internet connection (Skype). The dates and times for the Skype connection test and the interview examination will be decided through coordination with the applicants who passed the first selection. The details will be sent via email to each applicant. Applicants from outside of Japan should prepare an environment where they can achieve a fast, stable internet connection, and prepare for the interview by acquiring a Skype ID.

If an interview examination cannot be completed during the periods specified by the faculties due to poor connections, then the applicant will be considered absent from the interview examination.

Procedure		Schedule / Period
Coordination of interview examination dates and connection test dates		Wednesday, August 7 - Thursday, August 8, 2019
Notification of interview examination dates and connection test dates		Friday, August 9, 2019
Skype connection test		Friday, August 16 or Monday, August 19, 2019
Interview Examination	Faculty of Science	Tuesday, August 20 or Wednesday, August 21, 2019
	Faculty of Engineering	
	Faculty of Agriculture	

2) Applicants from within Japan

The interview examination will be held at either the Shizuoka or the Hamamatsu campus. The details will be sent via email to the applicants who passed the first selection.

Procedure		Schedule / Period
Notification of interview examination dates		Friday, August 9, 2019
Interview Examination	Faculty of Science	Tuesday, August 20 or Wednesday, August 21, 2019
	Faculty of Engineering	
	Faculty of Agriculture	

VI Results Announcements

The results for the first and second selection will be sent via email to applicants according to the following schedule. Furthermore, applicants who pass the second selection will be announced on the website (<http://www.abp.icsu.shizuoka.ac.jp>).

First selection results announcement	Wednesday, August 7, 2019
Second selection results announcement	Friday, August 30, 2019

VII University Registration and Date of Enrollment

Details will be sent individually via email to the students who have been accepted. If all the required documents for the admission process have not been submitted by the specified dates, the admission decision may be revoked even after the offer is granted.

University registration	Late September 2019
Enrollment day	Tuesday, October 1, 2019

VIII Important Points

1. Examination fees and tuition

Entrance examination fees and enrollment fees will not be collected. Tuition will not be collected for the first year. Furthermore, tuition for the second through fourth years will have 50% or 100% of the totals waived depending on student performance. In addition to tuition, other required expenses may arise.

2. Initial expenses related to enrollment (outline)

Event		Expenses
1	Various expenses related to student life - Disaster and Accident Insurance for Student Education and Research premiums - Student liability insurance, etc. (for four years) - Student Welfare Society fees (for four years) - Supporters' Association membership fees - Academic conference expenses - Graduation party expenses, etc.	Approximately ¥20,000 - ¥40,000 (These differ according to the faculty and department. Other insurance premiums related to housing may arise.)
2	Group purchase of notebook computers	- Faculty of Science, Department of Biological Science Approximately ¥150,000 - ¥200,000 - Faculty of Engineering Approximately ¥100,000 - ¥150,000 (Students accepted into the university will be contacted individually, but this is a preview of the program.)

*After completing registration, there may arise a need to pay fees and submit additional documents other than those listed above.

3. Living expenses after enrollment

Living expenses after enrollment are the responsibility of each student. Approximately ¥70,000 - ¥80,000 is required monthly for food, dormitory and miscellaneous expenses.

For more on dormitories, see the following website:

<http://www.icsu.shizuoka.ac.jp/japan/0112.htm>

4. Contact Information

(Admissions Office) Shizuoka University, International Affairs Section

(Email address) abpquery@suml.cii.shizuoka.ac.jp

5. Requests for disclosure of examination results

Applicants who were not selected during the second selection can make a request for the disclosure of their entrance examination results. Please email the following office within the request period. The office will explain the request procedure and the documents required. Any request made outside of the specified period will not be accepted.

(Office) Shizuoka University, International Affairs Section

(Request period) Friday, November 15, 2019 - Monday, December 16, 2019 (until noon, JST)

(Email address) abpquery@suml.cii.shizuoka.ac.jp

6. Handling personal information

Personal information is handled as follows in accordance with the "Act on the Protection of Personal Information Held by Incorporated Administrative Agencies, etc." and the "Shizuoka University Code on Personal Information Management".

- (1) Personal information recorded on all application documents will be used for a. Selecting new students (processing applications and making selections), b. Announcing the results, c. Processing registration, and d. Investigating admission selection methods and university education improvements.
- (2) The examination results used in admission selection will be used in creating materials for the investigation of future admission selection methods.
- (3) Personal information for new students will be used for work related to a. Educational affairs (the university registrar, graduate advising, etc.), b. Student support (health care, tuition exemption & scholarship applications, employment support, etc.), c. Tuition collection, and d. Investigation of admission selection methods and university education improvements.
- (4) When used for the various duties in (1) and (2) above, some of the duties may be undertaken by contractors entrusted by the university. The contractors will be provided some or all personal information only to the extent needed to fulfill their contracted duties.

[Table 1] The approximate levels of Japanese language proficiency expected by each faculty

Faculties and Departments	Either of the two	
	EJU Japanese as a foreign language	JLPT
Faculty of Science	220 points or greater	Pass N1 or N2, or 135 points or greater in N3
Faculty of Engineering		
Faculty of Agriculture		

[Table 2] GCE A-Level, Benchmarks by each Faculty

The subjects and evaluation required for application are as follows.

Faculty of Science	<ul style="list-style-type: none"> - A Level examinations in one or more subjects - Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations. - Only results of passing (an evaluation of E or greater) will be considered.
Faculty of Engineering	<ul style="list-style-type: none"> - A Level examinations in three or more subjects - Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations. Furthermore, only AS Level examinations will not be approved. - Only results of passing (an evaluation of E or greater) will be considered. - The faculty requires subjects related to mathematics and science (physics or chemistry).
Faculty of Agriculture	<ul style="list-style-type: none"> - A Level examinations in one subject - AS Level examinations will not be approved. - Only results of passing (an evaluation of E or greater) will be considered. - Only science (physics, chemistry, or biology) will be considered.

[Table 3] Subject Examinations Required for Application

If students have not taken examinations for the subjects shown below, they may not apply. However, submitting a Japanese Language Proficiency Test (JLPT) score for an examination taken within the past two years instead of an EJU examination score will meet the application requirements only for the Japanese as a Foreign Language of the EJU.

Faculties	Departments & Courses	Examination for Japanese University Admission for International Students (EJU) or Japanese Language Proficiency Test (JLPT)				English qualification examination
		Japanese as a Foreign Language	Science	Japan and the World	Mathematics	
		EJU (Listening, Listening-Reading, Reading: (on a 400-point scale) / JLPT	(On a 200-point scale for each) (Examinations may be taken in English)			
Faculty of Science	Department of Mathematics	○	Choose two from physics, chemistry, or biology		Course 2	Any one of the following <i>TOEIC</i> [®] L&R revised <i>TOEFL</i> [®] Paper-delivered Test <i>TOEFL iBT</i> [®] IELTS (Academic Module)
	Department of Physics	○	Physics is required Choose one other elective		Course 2	
	Department of Biological Science	○	Choose two from physics, chemistry, or biology		Course 2	
	Department of Geosciences	○	Choose two from physics, chemistry, or biology		Course 2	
Faculty of Engineering	Department of Mechanical Engineering	○	Physics & chemistry		Course 2	
	Department of Electrical and Electronic Engineering	○	Physics & chemistry		Course 2	
	Department of Electronics and Materials Science	○	Physics & chemistry		Course 2	
	Department of Applied Chemistry and Biochemical Engineering	○	Physics & chemistry		Course 2	
	Department of Mathematical and Systems Engineering	○	Physics & chemistry		Course 2	
Faculty of Agriculture	Department of Bioresource Sciences	○	Choose two from physics, chemistry, or biology		Course 2	
	Department of Applied Life Sciences	○	Choose two from physics, chemistry, or biology		Course 2	