

# Department of Mathematics, School of Science (for students enrolled in 2021)

## Basic Major, Major, Advanced Liberal Arts Education, and Advanced Global Literacy Education Subjects

| 1 <sup>st</sup> Year  |                      | 2 <sup>nd</sup> Year   |   | 3 <sup>rd</sup> Year                                   |  | 4 <sup>th</sup> Year   |   |
|---|----------------------|--|---|--|--|--|---|
| Spring-Summer Semester  | Fall-Winter Semester | Spring-Summer Semester   | Fall-Winter Semester                                  | Spring-Summer Semester                                 | Fall-Winter Semester   | Spring-Summer Semester   | Fall-Winter Semester                                  |
| Science and Society Seminar (2)   |                      | ◎ Linear Algebra 1 (2)   | Basic Algebra (2)                                     | Introduction to Algebra 1 (2)                          | Algebra 3 (2)  | ◎ Advanced Seminar a (Mathematics) (8)   | ◎ Advanced Seminar b (Mathematics) (8)                |
| ◎ Compulsory subjects   |                      | ◎ Exercise Session (Linear Algebra 1) (2)                                | Exercise Session (Basic Algebra) (2)                  | Exercise Session (Introduction to Algebra 1) (2)       | Exercise Session (Algebra 3) (2)   | Algebra 4 to 10 (Single semester classes) (2) Each                             |   |
| Elective subjects   |                      | ◎ Point-Set Topology and Multivariable Calculus 1 (2)                    | ◎ General Topology (2)                                | Introduction to Algebra 2 (2)                          | Geometry 1 (2)   | Geometry 3 to 10 (Single semester classes) (2) Each                            |   |
| ( ) enclose the number of credits earned in a course.   |                      | ◎ Exercise Session (Point-Set Topology and Multivariable Calculus 1) (2) | ◎ Exercise Session (General Topology) (2)             | Exercise Session (Introduction to Algebra 2) (2)       | Exercise Session (Geometry 1) (2)  | Analysis 3 to 10 (Single semester classes) (2) Each                            |   |
| ☆ Offered every other year  |                      | ◎ Advanced Calculus (2)  | ◎ Complex Analysis (2)                                | Introduction to Geometry (2)                           | Geometry 2 (2)   | Experimental Mathematics 5 to 7 (Single semester classes) (2) Each             |   |
| Subjects that have the same name (and if appropriate, letter/number), are not different subjects, but the same subject offered at different times. Credits in such a subject may be acquired only once. |                      | ◎ Exercise Session (Advanced Calculus) (2)                               | ◎ Exercise Session (Complex Analysis) (2)             | Exercise Session (Introduction to Geometry) (2)        | Exercise Session (Geometry 2) (2)  | Mathematical Structures in the Large 1 to 5 (Single semester classes) (2) Each |   |
|   |                      | ◎ Vector Analysis (2)  | Seminar in Mathematics (2)                            | Introduction to Analysis 1 (2)                         | Analysis 1 (2)   | Applied Mathematics 1 to 6, 9 and 10 (Single semester classes) (2) Each        |   |
|   |                      | Probability and Statistics (2)   | Experimental Mathematics 2 (2)                        | Exercise Session (Introduction to Analysis 1) (2)      | Exercise Session (Analysis 1) (2)  | Applied Mathematics 7 (Information System) (2)                                 | Applied Mathematics 8 (Communication Network) (2)     |
|   |                      | Experimental Mathematics 1 (Computer Programming) (2)                    | Mathematics Honors Seminar 2 (1)                      | Introduction to Analysis 2 (2)                         | Analysis 2 (2)   | ◎ Bibliographic Survey in Mathematics a (1)                                    | ◎ Bibliographic Survey in Mathematics b (1)           |
|   |                      | Mathematics Honors Seminar 1 (1)   | ☆ Special Lectures for Future Outlook A (0.5)         | Exercise Session (Introduction to Analysis 2) (2)      | Exercise Session (Analysis 2) (2)  | ☆ Seminar on Science and Technology A1 Spring Term (1)                         | ☆ Special Lectures for Future Outlook A (0.5)         |
|   |                      | Science and Society Seminar (2)  | ☆ Special Lectures for Future Outlook B (0.5)         | Advanced Complex Analysis (2)                          | Experimental Mathematics 4a (Introduction to Multi Media) (1)                | ☆ Seminar on Science and Technology A2 Summer Term (1)                         | ☆ Special Lectures for Future Outlook B (0.5)         |
|   |                      |  | English Communication Skills for Science Students (1) | Exercise Session (Advanced Complex Analysis) (2)       | Experimental Mathematics 4b (Introduction to the Information Profession) (1) | ☆ Seminar on Science and Technology B1 Spring Term (1)                         | English Communication Skills for Science Students (1) |
|   |                      |  |   | Experimental Mathematics 3 (2)                         | Numerical Computation (2)  | ☆ Seminar on Science and Technology B2 Summer Term (1)                         |   |
|   |                      |  |   | Mathematics Honors Seminar 3 (1)                       | Mathematics Honors Seminar 4 (1)   | English Communication Skills for Science Students (1)                          |   |
|   |                      |  |   | ☆ Seminar on Science and Technology A1 Spring Term (1) | ◎ Roads to Mathematics (2)   | Science and Society Seminar (2)  |   |
|   |                      |  |   | ☆ Seminar on Science and Technology A2 Summer Term (1) | ☆ Special Lectures for Future Outlook A (0.5)                                |  |   |
|   |                      |  |   | ☆ Seminar on Science and Technology B1 Spring Term (1) | ☆ Special Lectures for Future Outlook B (0.5)                                |  |   |
|   |                      |  |   | ☆ Seminar on Science and Technology B2 Summer Term (1) | English Communication Skills for Science Students (1)                        |  |   |
|   |                      |  |   | English Communication Skills for Science Students (1)  |  |  |   |
|   |                      |  |   | Science and Society Seminar (2)                        |  |  |   |

### Basic Major subjects

| 1 <sup>st</sup> Year Spring-Summer Semester   | 1 <sup>st</sup> -Year Fall-Winter Semester  | 2 <sup>nd</sup> Year                          |
|---|---|---|
| ◎ Linear Algebra with Exercises I (3)   | ◎ Linear Algebra with Exercises II (3)  | Thermodynamics (2)                            |
| ◎ Calculus with Exercises I (3)   | ◎ Calculus with Exercises II (3)  | Electromagnetism II (2)                       |
| ※ Elementary Mechanics, Introduction to Mechanics, Mechanics I (2)  | ※ Elementary Electromagnetism, Introduction to Electromagnetism, Electromagnetism I (2) |   |
| Earth and Space Science I Spring Term (1)   | Mechanics II (2)  |   |
| Earth and Space Science II Summer Term (1)  | Introductory Chemistry BI Fall Term (1)   | ▭ Lectures in Japanese                        |
| Introductory Chemistry AI Spring Term (1)   | Introductory Chemistry BII Winter Term (1)  | ▭ Lectures in English                         |
| Introductory Chemistry AII Summer Term (1)  | Advanced Biology (2)  | ▭ Lectures in Japanese with English materials |
| Introductory Biology (2)  |   |   |
| Basic Physics Experiments, Basic Chemistry Experiments, Basic Biology Experiments, Basic Experiments in Earth and Space Science (1*4) |   |   |

※The subject taken is determined by the program.

### Note:

This table is the course schedule planned at the time of admission.; the allocation of a course to a specific year may be changed to provide a more effective curriculum. Please check the website of the School of Science for an updated list of courses offered and timetables for each academic year.

# Department of Physics, School of Science (for students enrolled in 2021)

## Basic Major, Major, Advanced Liberal Arts Education, and Advanced Global Literacy Education Subjects

| 1 <sup>st</sup> Year   |   | 2 <sup>nd</sup> Year                        |   | 3 <sup>rd</sup> Year                                     |  | 4 <sup>th</sup> Year   |   |
|--|---|---|---|--|--|--|---|
| Spring-Summer Semester   | Fall-Winter Semester                            | Spring-Summer Semester                      | Fall-Winter Semester                                  | Spring-Summer Semester                                   | Fall-Winter Semester                                   | Spring-Summer Semester   | Fall-Winter Semester                              |
| Physics Seminar (1)  | ⦿ Mechanics 1 (2)                               | ⦿ Mechanics 2 (2)                           | ⦿ Quantum Mechanics 1 (2)                             | ⦿ Physics Laboratory 1 (4)<br>⦿ Physics Laboratory 2 (4) |  | □ Undergraduate Research in Physics (8)<br>□ Undergraduate Research in Earth and Space Science (8) |   |
| Science and Society Seminar (2)  | ⦿ Exercises for Mechanics 1 (2)                 | ⦿ Exercises for Mechanics 2 (2)             | ⦿ Exercises for Quantum Mechanics 1 (2)               | ⦿ Quantum Mechanics 2 (2)                                | ⦿ Statistical Mechanics 2 (2)                          | □ Literature Survey in Physics (1)<br>□ Literature Survey in Earth and Space Science (1)           |   |
| ⦿ Compulsory subjects<br>□ Partly elective subjects<br>Elective subjects<br>( ) Enclose the number of credits earned in a course.<br>☆ Offered every other year<br>Subjects that have the same name (and if appropriate, letter/number), are not different subjects, but the same subject offered at different times. Credits in such a subject may be acquired only once.<br>However, there is an exception made for the Physics Honors Seminars, for which a maximum of 6 credits may be earned. | Introduction to Modern Physics (2)              | ⦿ Electricity and Magnetism 1 (2)           | ⦿ Thermal Physics (2)                                 | ⦿ Exercises for Quantum Mechanics 2 (2)                  | Introduction to Planetary Science (2)                  | Relativistic Quantum Mechanics (2)   | Introduction to Elementary Particle Physics 2 (2) |
|  | ⦿ Exercises for Electricity and Magnetism 1 (2) | Exercises for Thermal Physics (2)           | ⦿ Statistical Mechanics 1 (2)                         | Quantum Mechanics 3 (2)                                  | Nuclear Physics 2 (2)                                  | Numerical Computation (2)  |   |
|  | ⦿ Mathematical Physics 1 (2)                    | ⦿ Mathematical Physics 2 (2)                | ⦿ Exercises for Statistical Mechanics 1 (2)           | Plasma Physics (2)                                       | General Relativity (2)                                 | Field Work in Earth and Space Science 2 (1)  |   |
|  | ⦿ Exercises for Mathematical Physics 1 (2)      | ⦿ Exercises for Mathematical Physics 2 (2)  | Mathematical Physics 3 (2)                            | Introduction to Biophysics (2)                           | Condensed Matter Physics 3 (2)                         | Field Work in Earth and Space Science 4 (1)  |   |
|  | Numerical Analysis (2)                          | Electricity and Magnetism 2 (2)             | Optical Physics in Extreme (2)                        | Nuclear Physics 1 (2)                                    | Introduction to Elementary Particle Physics 1 (2)      | ☆ Special Lectures for Future Outlook A (0.5)  |   |
|  | Sciences of Earth and Planetary Materials (2)   | Methods of Experimental Physics (2)         | Condensed Matter Physics 1 (2)                        | Condensed Matter Physics 2 (2)                           | Field Work in Earth and Space Science 1 (1)            | ☆ Special Lectures for Future Outlook B (0.5)  |   |
|  | Field Work in Earth and Space Science 1 (1)     | Introduction to Earth Science (2)           | Mass Spectrometry (2)                                 | Structure Formation Theory in the Universe (2)           | Field Work in Earth and Space Science 3 (1)            | English Communication Skills for Science Students (1)  |   |
|  | Physics Honors Seminar (1)                      | Mechanics of Continuous Media (2)           | Optical Physics (2)                                   | Astrophysics (2)   | ☆ Seminar on Science and Technology A1 Spring Term (1) |  |   |
|  | Science and Society Seminar (2)                 | Field Work in Earth and Space Science 2 (1) | Field Work in Earth and Space Science 1 (1)           | Field Work in Earth and Space Science 2 (1)              | ☆ Seminar on Science and Technology A2 Summer Term (1) |  |   |
|  |   | Physics Honors Seminar (1)                  | Field Work in Earth and Space Science 3 (1)           | Field Work in Earth and Space Science 4 (1)              | ☆ Seminar on Science and Technology B1 Spring Term (1) |  |   |
|  |   |   | ☆ Special Lectures for Future Outlook A (0.5)         | Physics Honors Seminar (1)                               | Physics Honors Seminar (1)                             | ☆ Seminar on Science and Technology B2 Summer Term (1)   |   |
|  |   |   | ☆ Special Lectures for Future Outlook B (0.5)         | ☆ Seminar on Science and Technology A1 Spring Term (1)   | Current Topics in Physics, Earth and Space Science (2) | English Communication Skills for Science Students (1)  |   |
|  |   |   | English Communication Skills for Science Students (1) | ☆ Seminar on Science and Technology A2 Summer Term (1)   | ☆ Special Lectures for Future Outlook A (0.5)          | Science and Society Seminar (2)  |   |

Advanced Liberal Arts Education subjects

Advanced Global Literacy Education subjects

### Basic Major subjects

| 1 <sup>st</sup> Year Spring-Summer Semester | 1 <sup>st</sup> -Year Fall-Winter Semester | 2 <sup>nd</sup> Year |  |  |  |
|---|--|----------------------|--|--|--|
| ⦿ Calculus with Exercises I (3)             | ⦿ Calculus with Exercises II (3)           | Statistics C-I (2)   |  | ☆ Special Lectures for Future Outlook A (0.5)          | ☆ Seminar on Science and Technology A1 Spring Term (1) |
| ⦿ Linear Algebra with Exercises I (3)       | ⦿ Linear Algebra with Exercises II (3)     | Statistics C-II (2)  |  | ☆ Special Lectures for Future Outlook B (0.5)          | ☆ Seminar on Science and Technology A2 Summer Term (1) |
| ⦿ Mechanics I (2)                           | ⦿ Electromagnetism I (2)                   |                      |  | English Communication Skills for Science Students (1)  | ☆ Seminar on Science and Technology B1 Spring Term (1) |
| ⦿ Introductory Chemistry AI Spring Term (1) | ⦿ Introductory Chemistry BI Fall Term (1)  |                      |  | ☆ Seminar on Science and Technology B2 Summer Term (1) | ☆ Special Lectures for Future Outlook B (0.5)          |
| Introductory Chemistry AII Summer Term (1)  | Introductory Chemistry BII Winter Term (1) |                      |  | ☆ Seminar on Science and Technology B1 Spring Term (1) | ☆ Special Lectures for Future Outlook B (0.5)          |
| Introductory Biology (2)                    | Advanced Biology (2)                       |                      |  | ☆ Seminar on Science and Technology B2 Summer Term (1) | English Communication Skills for Science Students (1)  |
| ⦿ Earth and Space Science I Spring Term (1) |  |                      |  | English Communication Skills for Science Students (1)  |  |
| Earth and Space Science II Summer Term (1)  |  |                      |  | Science and Society Seminar (2)                        |  |

Lectures in Japanese

Lectures in English

Lectures in Japanese with English materials

### Note:

This table is the course schedule planned at the time of admission; the allocation of a course to a specific year may be changed to provide a more effective curriculum. Please check the website of the School of Science for an updated list of courses offered and timetables for each academic year.

Basic Physics Experiments, Basic Chemistry Experiments, Basic Biology Experiments, Basic Experiments in Earth and Space Science (1\*4)

# Department of Chemistry, School of Science (for students enrolled in 2021)

## Basic Major, Major, Advanced Liberal Arts Education, and Advanced Global Literacy Education Subjects

| 1 <sup>st</sup> year  |                      | 2 <sup>nd</sup> Year                            |   | 3 <sup>rd</sup> year                                   |   | 4 <sup>th</sup> Year                                   |   |
|---|----------------------|---|---|--|---|--|---|
| Spring-Summer Semester  | Fall-Winter Semester | Spring-Summer Semester                          | Fall-Winter Semester                                  | Spring-Summer Semester                                 | Fall-Winter Semester                                  | Spring-Summer Semester                                 | Fall-Winter Semester                                  |
| Seminar for Freshpersons in Chemistry (1)   |                      | ⊙ Analytical Chemistry 1 (2)                    | Analytical Chemistry 2 (2)                            | Radiochemistry (2)                                     | Industrial Inorganic Chemistry (2)                    | ◇ Undergraduate Research in Chemistry (10)             |   |
| Science and Society Seminar (2)   |                      | ⊙ Organic Chemistry 1 (2)                       | Inorganic Chemistry 2 (2)                             | ○ Exercises in Inorganic and Radiochemistry (1)        | Organic Biochemistry (2)                              | ◇ Undergraduate Research in Polymer Science (10)       |   |
| ⊙ Compulsory subjects<br>◇ Partly elective subjects A<br>○ Partly elective subjects B<br>Elective subjects  |                      | ⊙ Inorganic Chemistry 1 (2)                     | ⊙ Organic Chemistry 2 (2)                             | Analytical Chemistry 3 (2)                             | Organometallic Chemistry (2)                          | Literature Searching and Reading in Chemistry (2)      |   |
| ⓪ enclose the number of credits earned in a course.<br>☆ Offered every other year<br>Subjects that have the same name (and if appropriate, letter/number), are not different subjects, but the same subject offered at different times. Credits in such a subject may be acquired only once.<br>However, there is an exception made for the half-credit subjects "Special Lectures for Future Outlook A" and "Special Lectures for Future Outlook B".<br>These may be taken twice, to yield a total of one credit each, and the appropriate half-credit will appear in your academic transcript as Special Lectures for Future Outlook A1, A2, B1, and/or B2, respectively. |                      | ○ Exercises in Organic Chemistry 1 (1)          | ○ Exercises in Organic Chemistry 2 (1)                | Inorganic Chemistry 3 (2)                              | Biochemistry 2 (2)                                    | Advanced Inorganic and Radiochemistry (2)              | Numerical Computation (2)                             |
|   |                      | ⊙ Elementary Quantum Mechanics (2)              | Quantum Chemistry 1 (2)                               | Organic Chemistry 3 (2)                                | Structural Chemistry 2 (2)                            | Heterocyclic Chemistry (1)                             | ☆ Special Lectures for Future Outlook A (0.5)         |
|   |                      | ○ Exercises in Elementary Quantum Mechanics (1) | ⊙ Chemical Kinetics and Dynamics 1 (2)                | Exercises in Organic Chemistry 3 (1)                   | Quantum Chemistry 2 (2)                               | Electronic Structure in Organic Chemistry (1)          | ☆ Special Lectures for Future Outlook B (0.5)         |
|   |                      | ⊙ Chemical Thermodynamics 1 (2)                 | Chemical Thermodynamics 2 (2)                         | Biochemistry 1 (2)                                     | ○ Exercises in Statistical Thermodynamics (1)         | Spectrometric Analysis of Organic Compounds (2)        | English Communication Skills for Science Students (1) |
|   |                      | Upgrade Seminar in Chemistry (1)                | Structural Chemistry 1 (2)                            | Chemical Kinetics and Dynamics 2 (2)                   | Synthetic Polymer Chemistry 2 (2)                     | Solid State Physical Chemistry (2)                     |   |
|   |                      | Chemistry Honors Seminar 1 (1)                  | ⊙ Macromolecular Science (2)                          | Elementary Statistical Mechanics (2)                   | Physical Chemistry of Polymers 2 (2)                  | Chemical Kinetics and Dynamics 3 (2)                   |   |
|   |                      | Science and Society Seminar (2)                 | Computer Programming for Chemistry (2)                | ○ Exercises in Macromolecular Sciences (1)             | Chemical Biology (2)                                  | Chemical Thermodynamics 3 (2)                          |   |
|   |                      |   | ⊙ Technique of Chemistry (2)                          | Synthetic Polymer Chemistry 1 (2)                      | Introduction to Advanced Chemistry (1)                | Industrial Organic Chemistry (2)                       |   |
|   |                      |   | Chemistry Honors Seminar 2 (1)                        | Physical Chemistry of Polymers 1 (2)                   | ⊙ Chemical Experiments 2 (6)                          | ☆ Seminar on Science and Technology A1 Spring Term (1) |   |
|   |                      |   | ☆ Special Lectures for Future Outlook A (0.5)         | ⊙ Chemical Experiments 1 (6)                           | ⊙ Advanced Chemical Experiments (2)                   | ☆ Seminar on Science and Technology A2 Summer Term (1) |   |
|   |                      |   | ☆ Special Lectures for Future Outlook B (0.5)         | Chemistry Honors Seminar 3 (1)                         | Chemistry Honors Seminar 4 (1)                        | ☆ Seminar on Science and Technology B1 Spring Term (1) |   |
|   |                      |   | English Communication Skills for Science Students (1) | ☆ Seminar on Science and Technology A1 Spring Term (1) | English Communication Skills for Science Students (1) | ☆ Seminar on Science and Technology B2 Summer Term (1) |   |
|   |                      |   |   | ☆ Seminar on Science and Technology A2 Summer Term (1) |   | English Communication Skills for Science Students (1)  |   |
|   |                      |   |   | ☆ Seminar on Science and Technology B1 Spring Term (1) |   | Science and Society Seminar (2)                        |   |
|   |                      |   |   | ☆ Seminar on Science and Technology B2 Summer Term (1) |   |  |   |
|   |                      |   |   | English Communication Skills for Science Students (1)  |   |  |   |
|   |                      |   |   | Science and Society Seminar (2)                        |   |  |   |

  

| 1 <sup>st</sup> Year Spring-Summer Semester   | 1 <sup>st</sup> Year Fall-Winter Semester   | 2 <sup>nd</sup> Year    |   |
|---|---|-------------------------|---|
| ⊙ Linear Algebra I (2)  | ⊙ Linear Algebra II (2)   | Statistics C-I (2)      |   |
| ⊙ Calculus I (2)  | ⊙ Calculus II (2)   | Statistics C-II (2)     |   |
| ※ Elementary Mechanics, Introduction to Mechanics, Mechanics I (2)  | ※ Elementary Electromagnetism, Introduction to Electromagnetism, Electromagnetism I (2) | Electromagnetism II (2) |   |
| Earth and Space Science I Spring Term (1)   | Mechanics II (2)  |                         |   |
| Earth and Space Science II Summer Term (1)  | ⊙ Introductory Chemistry BI Fall Term (1)   |                         |   |
| ⊙ Introductory Chemistry AI Spring Term (1)   | ⊙ Introductory Chemistry BII Winter Term (1)  |                         |   |
| ⊙ Introductory Chemistry AII Summer Term (1)  | Advanced Biology (2)  |                         | □ Lectures in Japanese                        |
| ⊙ Introductory Biology (2)  |   |                         | ■ Lectures in English                         |
| ⊙ Basic Physics Experiments, Basic Chemistry Experiments, Basic Biology Experiments, Basic Experiments in Earth and Space Science (1*4) |   |                         | ■ Lectures in Japanese with English materials |

  

□ Lectures in Japanese  
■ Lectures in English  
■ Lectures in Japanese with English materials

**Note:**  
This table is the course schedule planned at the time of admission,; the allocation of a course to a specific year may be changed to provide a more effective curriculum. Please check the website of the School of Science for an updated list of courses offered and timetables for each academic year.

※The subject taken is determined by the program.

IUPS Graduation Requirements (for students enrolled in 2021)

国際科学特別プログラム 卒業要件単位表 (令和3年度入学者用)

| Course Category<br>履修区分  |   | Dept of Math                       | Dept of Phys   | Dept of Chem              | Language of Instruction<br>開講言語 |   |
|--|---|------------------------------------|--|---------------------------|---------------------------------|---|
|  |   | 数学科                                | 物理学科   | 化学科                       |                                 |   |
|  |   | Min no. of Credits<br>単位数          | Min no. of Credits<br>単位数                                  | Min no. of Credits<br>単位数 |                                 |   |
| Liberal Arts<br>General Education<br>Education<br>Subject categories<br>教養教育系科目  | A Door to Academia<br>学問への扉                           |                                    | 2  | 2                         | 2                               | English   |
|  | Advanced Seminar<br>アドヴァンスト・セミナー                      |                                    | -  | -                         | -                               | Japanese/English  |
|  | Liberal Arts<br>Education<br>Subjects<br>基盤教養教育<br>科目 | Humanities<br>人文科学系                | 6<br>(see note 1)  | 6<br>(see note 1)         | 6<br>(see note 1)               | Japanese/English  |
|  |   | Social Sciences<br>社会科学系           |  |                           |                                 |   |
|  |   | Natural Sciences<br>自然科学系          |  |                           |                                 |   |
|  |   | Integrated Studies<br>総合型          |  |                           |                                 |   |
|  | Information Processing Education Subjects<br>情報教育科目   |                                    | 2  | 2                         | 2                               | English   |
|  | Health and Sports Education Subjects<br>健康・スポーツ教育科目   |                                    | 2  | 2                         | 2                               | English   |
|  | Advanced Liberal Arts Education Subjects<br>高度教養教育科目  |                                    | 2  | 2                         | 2                               | Japanese  |
| Total - A<br>計A  |   | 14                                 | 14   | 14                        |                                 |   |
| Major<br>Subject categories<br>専門教育系科目   | Basic Major Subjects<br>専門基礎教育科目                      |                                    | 25   | 25                        | 25                              | English/Japanese<br>*See the Curriculum Table for the language of each subject. |
|  | Major<br>Subjects<br>専門教育科目                           | Compulsory Subjects<br>必修科目        | 38   | 44                        | 32                              |   |
|  |   | Partly Elective Subjects<br>選択必修科目 | -  | 8                         | A : 10<br>B : 4                 |   |
|  |   | Elective Subjects<br>選択科目          | 24   | 12                        | 26                              |   |
| Total - B<br>計B  |   | 87                                 | 89   | 97                        |                                 |   |
| Global Literacy Education<br>Subject categories<br>国際性涵養教育系科目                    | Multilingual Education<br>Subjects<br>マルチリンガル教育科目     | Multilingual Education<br>Subjects | 13<br>(see note 2)   | 13<br>(see note 2)        | 13<br>(see note 2)              | Japanese  |
|  |   |                                    | Advanced Global Literacy Education Subjects<br>高度国際性涵養教育科目 |                           | 2                               | 1   |
|  | Total - C<br>計C                                       |                                    | 15   | 14                        | 15                              |   |
| Free Transfer credits - D<br>自由選択D   |   | 8                                  | 8  | 2                         |                                 |   |
| Total Graduation Requirement Credits (A + B + C + D)<br>総卒業要件単位数 (A + B + C + D) |   | 124                                | 125  | 128                       |                                 |   |

Note 1: Credits earned in "Natural Sciences" subjects cannot be used to fulfill graduation requirements.

Note 2: Japanese language courses have to be selected from the Multilingual Education Subjects categories. For those students who are fluent in Japanese, surplus credits earned within "Liberal Arts Education Subjects" or non-Japanese, non-English language courses can be counted as credits in this field.