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| **2021 Fall Semester: Graduation Requirements for Undergraduates** |
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| **I** |  | Graduation Requirements for Undergraduates |

**A. Requirements of the Faculty of Liberal Arts and Sciences (as of 2015)**

**1. General Sciences**

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| --- | --- | --- | --- | --- |
| Field | | Course title | Required  Credits | Remark |
| Mathematics | | Single Variable Calculus and Applications or Single Variable Calculus & Applications - Honors | 3 |  |
| Multivariable Calculus & Applications or  Differential Equations & Applications or Introduction to Linear Algebra & Applications or  Fundamental Differential Equations with Linear Algebra and Applications | 3 | Required to select 1 of the 4 courses |
| General Sciences (lecture) | Physics | General Physics and Recitation I or  General Physics and Recitation I - Honors | 9 | Required to select 3 areas among Physics, Chemistry, Life Sciences and Electrical Engineering and Computer Science  ※ In case all 4 courses are completed, 1 course is acknowledged as a General Sciences elective (free elective) course  ※ Lecture courses can be taken before the experiment course |
| Chemistry | General Chemistry and Recitation I or  General Chemistry and Recitation I - Honors |
| Life Sciences | Biology or  Human Biology or  General Biology - Honors |
| Electrical Engineering and Computer Science | Computer Programming |
| General Sciences (experiment) | Physics | General Physics Experiment I | 2-3 | Required to select 2-3 or more courses among Physics, Chemistry and Life Sciences  ※ Each experiment course is a co-requisite or pre-requisite with their respective lectures.(e.g. General Physics and Recitation I and General Physics Experiment I)  ※ There is no associated experiment course for an Electrical Engineering and Computer Science lecture |
| Chemistry | General Chemistry Experiment I |
| Life Sciences | General Biology Laboratory |
| Total | | | 17-18 |  |

※ An experiment course must be taken either after completing or simultaneously with a lecture course.

※ All excess credits are recognized as “Free electives - General Sciences elective” credits

**2. Language**

The following required course credits in each field (6~7 credits) must be completed

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| --- | --- | --- | --- | --- | --- |
| Field | Category | Course Title | | Credits | Remark |
| English | Required | English Ⅰ: Study Skills for Freshman or  English Ⅰ: Presentation and Discussion | | 2 | Required to complete 4 credits or more |
| Required | English II: Introduction to Academic Writing in Science and Engineering | | 2 |
| Writing in Korean | Required | Writing I | Logical Writing | 3 | Required to select 1 of 6 courses  ※ However, the 3 courses of Writing I and the 3 courses of Writing II are regarded as same courses  ※ Students who take a "Writing I" course may take a "Writing II" course additionally |
| Academic Writing |
| Creative Writing |
| Writing II | Writing about Science |
| Reading the Classics & Writing |
| Critical Writing |

※ **Warning for consecutive absentees in English courses (as of 2017)**

○ Students who have registered for an English course and have not been present for the first three consecutive classes without notice will be considered as not having the intention to complete the course and will receive an F (U) grade for the course.

- Absentees receiving three consecutive absents at the beginning of a course: For the **second absence after the beginning of the course, students will be notified individually**. Upon the third consecutive absence without notice, an F (U) grade will be given for the course.

- **Students who wish to register for a course after the student quota has been reached**: Submit the application form for “Additional Course Registration / Change of Course” to the Language Education Center after the registration period but prior to the start of classes. Students will be placed on a **waiting list and will be able to register on a first-come, first-served basis if there is an opening.** (Note: Submitting this document **does not guarantee** course registration)

○ Korean Courses

- Korean Language courses(Required for graduation, International students only)

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| --- | --- | --- | --- | --- |
| **Classification** | **Course code** | **Course Title** | **Credits** | **Comments** |
| Required | GS1902 | Basic Korean | 0 |  |
| GS1903 | Beginner Korean 1 | 2 | pre-requsite: GS1902 |
| GS1904 | Beginner Korean 2 | 2 | pre-requsite: GS1903 |
| Elective | GS1905 | Intermediate Korean | 2 |  |
| GS1906 | Practical Korean Vocabulary | 2 |  |

- Students are required to take a Korean Proficiency Test before registering for courses.

- GIST College requires all international students to take compulsory Korean classes. This requirement is fulfilled by taking Beginner Korean II and its prerequisite courses.

○ Other Korean Courses (Int’l students only)

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| --- | --- | --- | --- | --- |
| Electives in Humanities and Social Science  (Korean Courses) | **Classification** | **Course Title** | **Credits** | **Comments** |
| HUS  Course Code: GS2581 | Understanding Korean Culture | 3 | 6 credits of HUS required for graduation |
| HUS  Course Code: GS2582 | History of Hangeul | 3 |

- Students are required to take 6 credits of HUS courses in order to meet graduation requirements. Students can choose other HUS courses not listed here. Please refer to course list to see more HUS course options.

- International students are encouraged to take <Basic Korean, GS1902> before taking Understanding Korean Culture and History of Hangeul.

○ Korean Exemption Criteria

- Both credit recognition and course exemption of Korean Language courses are possible if TOPIK level 3 is achieved.

- Pursuant to the students’ Korean language proficiency (subject to and determined by separate testing by GIST faculty) advanced placement to either Beginner Korean 1 (GS1903) or Beginner Korean 2 (GS1904) is possible. However, at least one (1) additional Korean language course must be taken.

※ Course exemption requests must be submitted prior to the beginning of students’ final semester. Submission during the final semester will NOT be accepted.

**3. Humanities and Social Sciences**

a. Humanities and Social Sciences courses fall into three categories: HUS, PPE, and GSC (general elective).

b. Humanities and Social Sciences courses are elective courses, but students must complete two courses (6 credits) from the HUS and PPE categories each for a total of four courses (12 credits).

c. Students must complete at least 24 credits in the humanities and social sciences category for graduation.

d. Course Classification: Refer to the course description for the Faculty of Liberal Arts and Sciences.

**4. Software**

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| --- | --- | --- | --- | --- |
| Course | Classification | Course Title | Credit | Note |
| SW | Required | Software Basics and Coding (GS1490) | 2 | **Required as of 2018** |
| SW | Elective | Software Coding and AI Practical Use (GS1491) | 2 |  |

**5. Practice** in the Arts and Physical Education

Students must complete two courses from each of the above categories: practice in the arts and physical education. (Free electives are allowed up to fourth semester.)

**B. Current Status of Required Courses for Majors**

**1. Common for All Majors (Enrollment Years 2010–2017)**

- If you have not completed the requisite or pre-requisite courses for your major and the requisite for those courses have changed, you must complete the newly created courses replacing them.

**2. Electrical Engineering and Computer Science**

|  |  |  |  |
| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| EC3101 | Electronic Engineering Experiment | 1:4:3 | Select 1 |
| EC3102 | Computer Systems Theory and Experiment | 2:4:4 |

**3. Materials Science and Engineering**

|  |  |  |  |
| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| MA2101 | Introduction to Materials Science and Engineering | 3:0:3 |  |
| MA2102 | Thermodynamics | 3:0:3 |  |
| MA2103 | Organic Materials Chemistry | 3:0:3 |  |
| MA2104 | Introduction to Polymer Science | 3:0:3 |  |
| MA3104 | Electronic Materials Laboratory | 1:4:3 |  |
| MA3105 | Organic Materials Laboratory | 1:4:3 |  |

**4. Mechanical Engineering**

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| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| MC2100 | Thermodynamics | 3:0:3 |  |
| MC2101 | Solid Mechanics | 3:0:3 |  |
| MC2102 | Fluid Mechanics | 3:0:3 |  |
| MC2013 | Dynamics | 3:0:3 |  |
| MC3106 | Mechanical Engineering Laboratory I | 1:4:3 |  |
| MC3107 | Mechanical Engineering Laboratory II | 1:4:3 |  |

**5. Earth Sciences and Environmental Engineering**

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| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| EV3101 | Environmental Engineering | 3:0:3 |  |
| EV3106 | Environmental Laboratory I | 1:4:3 |  |
| EV3111 | Earth Environmentology | 3:0:3 |  |
| EV4106 | Earth and Environmental Transport Phenomena | 3:0:3 |  |
| EV4107 | Environmental Laboratory II | 1:4:3 |  |

**6. Life Sciences**

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| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| BS2101 | Organic Chemistry Ⅰ | 3:0:3 |  |
| BS2102 | Molecular Biology | 3:0:3 |  |
| BS2103 | Biochemistry·Molecular Biology Laboratory | 1:4:3 |  |
| BS2104 | Biochemistry I | 3:0:3 |  |
| BS3101 | Biochemistry II | 3:0:3 |  |
| BS3105 | Cell Biology | 3:0:3 |  |
| BS3112 | Cell & Developmental Biology Laboratory | 1:4:3 |  |

**7. Physics**

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| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| PS2101 | Classical Mechanics and RecitationⅠ | 3:1:3 |  |
| PS2102 | Electromagnetism and Recitation Ⅰ | 3:1:3 |  |
| PS2103 | Electromagnetism and RecitationⅡ | 3:1:3 |  |
| PS3103 | Quantum Physics and Recitation I | 3:1:3 |  |
| PS3104 | Quantum Physics and Recitation II | 3:1:3 |  |
| PS3105 | Thermodynamics and Statistical Physics | 3:0:3 |  |
| PS3106 | Experimental Physics I | 1:4:3 |  |
| PS3107 | Mathematical Methods of Physics I | 3:0:3 |  |

**8. Chemistry**

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| --- | --- | --- | --- |
| Course No. | Course title | Credits | Remark |
| CH2101 | Analytical Chemistry | 3:0:3 |  |
| CH2102 | Physical Chemistry A | 3:0:3 |  |
| CH2103 | Organic ChemistryⅠ | 3:0:3 |  |
| CH2104 | Physical Chemistry B | 3:0:3 |  |
| CH2105 | Synthesis and Analysis of  Organic and Inorganic Compounds | 1:4:3 |  |
| CH3106 | Biochemistry Ⅰ | 3:0:3 |  |
| CH3107 | Inorganic Chemistry | 3:0:3 |  |

For all classes: “Physical Chemistry I” and “Physical Chemistry B” & “Physical Chemistry II” and “Physical Chemistry A” are identical courses and, thus, are not permitted to be taken one after another.

**C. Requirements for Double Majors and Minors: Information provided separately.**

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| **II** |  | Full List of Courses and Schedule – To be announced. |

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| **III** |  | Arts and Sports Courses |

**A. For each Arts and Sports course that has exceeded the required semesters for taking the courses, the student must pay a re-enrollment fee of 120,000 won.**

※ If the course has a limited capacity, students taking the course for the first time and students within the required semesters to complete the course receive priority.

**B. Minimum Student Quota for Arts and Sports Courses**

1. To improve the efficiency of arts and sports courses, classes with five or fewer applicants will be cancelled.

2. Students who have registered for courses that are cancelled must re-register according to the guidelines that will be provided in the future.

**C. Other Details**

1. Students must prepare their own instruments (piano and drums excluded). Clarinets, violins, electric guitars, cellos, and flutes can be rented through the course professor.

2. Golf and Bowling

- Location and Expenses: Undecided (notification will be given after the instructor is assigned). Students are individually responsible for course expenses.

3. Classes at the 2nd Student Union (swimming, fitness, hip-hop dance, taekwondo, etc.)

- Expenses: Students are responsible for their own course expenses, which can be paid at the reception desk of the 2nd Student Union.