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| **2023 Fall Semester: Graduation Requirements and Important Notes for Undergraduates** |
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| **I** |  | **Important Notes** |

**A. Credits Available for Registration**

- You may register for up to 21 credits with a minimum of 11 credits. However, if you have declared a minor or double concentration with an average GPA of 3.0 or higher from the previous semester, you may register for up to 24 credits with the approval of your faculty advisor.

※ The minimum-11-credit rule does not apply to the final semester before graduation.

(However, this calls for careful planning as graduation can be postponed.)

- If you do not have the required minimum of 11 credits, you will not receive tuition and meals grants for next semester.

※ If the final grade for a course is an F, that course is considered incomplete. Therefore, if you end up with less than 11 credits completed, your grants will be limited.

- Courses offered under a double-course code from other departments or concentrations **cannot be registered using the other course code, and all completed double-coded courses will only be recognized once toward graduation requirements in the concentration of your choice.**

**B. Re-enrollment and Fees**

- If you receive an F in a required course, you must re-enroll and receive credit for that course.

- You may re-enroll only if your grade for that course is C0 or less.

- Your final grade in the re-enrolled course cannot exceed a B+, and if your grade is lower than the previous one, the previous grade will be used to determine your GPA.

- For re-enrollment in a course, an additional fee set by the Tuition Deliberation Committee (60,000 won per credit) is to be paid.

**C. Manual Registration for Courses**

1) Period: **Aug 14th 14:00 – Sep 7th  18:00**

2) With regards to the following situations:

a. In cases where a particular course has a designated replacement course due to a change in the curriculum but is not recognized as a prerequisite course during online registration

b. In cases where a course completed at Berkeley or other institution had been recognized as a prerequisite but is not recognized during online registration

c. In cases where you seek recognition for a course completed at Berkeley or other institution as a prerequisite course but the credit certification process is still in progress for reasons such as the late arrival of transcripts

※ Completing similar courses to the prerequisite courses are no longer recognized since 2015 Fall Semester.

3) Procedure for Requesting Manual Registration

- Complete the form for manual registration of courses and email it to **cod123@gist.ac.kr**

※ See “Materials and Forms Board” on GIST homepage.

4) Other Important Notes

- During the registration period, as of 18:00 each day, manual registration will be available for courses as long as they have vacant seats remaining.

- Additional registration for courses without an opening is possible at the discretion of the course instructor.

- Registration may not be completed if adequate information is not provided.

- Pay careful attention during registration, such as class section and grading method.

(Procedure for checking general course registration results)

※ Some courses do not allow for the completion marking method (S/U). Be sure to check before registering.

**D. Completing two similar or identical courses at UC Berkeley or other universities will not both be recognized for credit toward graduation.**

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| **II** |  | **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) | Electrical Engineering and Computer Science | Computer Programming | 9 | Required to select 3 areas among  Electrical Engineering and Computer Science , Life Sciences, Physics, and Chemistry  ※ 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 |
| Life Sciences | Biology or  Human Biology or  General Biology - Honors |
| Physics | General Physics and Recitation I or  General Physics and Recitation I - Honors |
| Chemistry | General Chemistry and Recitation I or  General Chemistry and Recitation I - Honors |
| General Sciences (experiment) | Life Sciences | General Biology Laboratory | 2-3 | Required to select 2-3 or more courses among Life Sciences, Physics, and Chemistry  ※ 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 |
| Physics | General Physics Experiment I |
| Chemistry | General Chemistry Experiment I |
| 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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 Center for Future Education 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)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. 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**

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | 3:1:3 |  |

**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 |  |
| CH3208  CH3107 | Inorganic Chemistry I  Inorganic Chemistry | 3:0:3 | Inorganic Chemistry I is required as of 2021 |

For all classes: “Physical Chemistry I” and “Physical Chemistry B” & “Physical Chemistry II” and “Physical Chemistry A” & “Inorganic Chemistry I” and “Inorganic Chemistry”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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| **III** |  | **Full List of Courses and Schedule – To be announced.** |

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| **Ⅳ** |  | **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. Students are individually responsible for course expenses.

3. Classes at the 2nd Student Union (swimming, fitness, etc.)

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

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| **Ⅴ** |  | **Important Notes on Individual Courses** |

**1. Liberal Arts and Science Division**

A. Replacement Courses for Re-enrollment of Closed Courses

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| --- | --- | --- | --- |
| Previous Course | | Replacement Courses | |
| Course Code | Course Name | Course Code | Course Name |
| GS1501 | Writing and Speaking | GS1511 | Basics of Writing: Writing Logically |
| GS1512 | Basics of Writing: Academic Writing |
| GS1513 | Basics of Writing: Creative Writing |
| GS1502 | Advanced Writing | GS1531 | Advanced Writing: Scientific Writing |
| GS1532 | Advanced Writing: Reading Classics and Writing |
| GS1533 | Advanced Writing: Critical Writing |
| GS2801 | Research Ethics | GS2812 | Bioethics and Law |
| GS2807 | Reading Classical Papers in Contemporary Science | GS2806 | The Universe and Life |
| GS3005 | Introduction to Scientific Calculations | GS4015 | Scientific Calculations |
| GS2502 | Issues in the History of Korean Literature | GS2501 | Understanding Storytelling Literature |
| GS2505 | Understanding Classical Poetry and Songs |
| GS2741 | Understanding  Social Psychology | GS2742 | The Human Mind and Behavior 1 |
| GS2746 | The Psychology of Morality |
| GS2802 | The Politics of Science and Technology | GS2803 | Scientific Advancement and Society |
| GS2721 | Introduction to Economics | GS2731 | Microeconomics |

**B. Students Planning to Declare Physics Major**.

**1) Enrollment from the year 2018 ~**

- It is recommended that you take “Differential Equations and Applications, Linear Algebra and Applications” from the Faculty of Liberal Arts and Sciences.

**C. Important Notes on Required Common and Major Courses**

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| Majors | Important Notes |
| Electrical Engineering & Computer Science | - EC2206 Introduction to Algorithm: Common course recognized for majors of all enrollment years.  - EC2105 Engineering Electronics I: Common course recognized for all majors starting in 2018. (Not recognized as credit for major up through enrollment year 2017.) |
| Materials Science and Engineering | - Starting with students enrolling in 2018, “Organic Materials Chemistry” became a required course for major.   1. Students who have completed “Materials and Organic Chemistry” prior to the change may be credited for “Organic Materials Chemistry.” 2. Students who have completed “Organic Chemistry I” and changed major to Materials Science, may complete “Organic Chemistry II” to be credited for the major requisite “Organic Materials Chemistry.”   \* Already completed "Organic Chemistry I” is recognized as Free elective credits.   1. Students who have completed “Organic Chemistry I”, “Organic Chemistry II” and changed major to Materials Science, may be credited for the major requisite “Organic Materials Chemistry.”   \* Already completed "Organic Chemistry I” is recognized as Free elective credits. |
| Mechanical Engineering | - Added to the list of required major courses from enrollment year 2018: Mechanical Engineering Laboratory I (MC3106), Mechanical Engineering Laboratory II (MC3107) |
| Earth Sciences and Environmental Engineering | - Environmental Monitoring (EV2209): Now recognized as a course for the major for all enrollment years. |
| Life Sciences | - GS1321 Liberal Arts Biology  \* Students in Life Sciences (including transfer students to the major) should not register for this course and will not be credited towards graduation. |
| Physics and Photon Science | - Read the above guidelines for declaring physics major. |
| Chemistry | - Required for all students.:  The following courses are identical, so duplicate registration is not allowed.  - “Physical Chemistry I” and “Physical Chemistry B”  - “Physical Chemistry II” and “Physical Chemistry A”  - “Inorganic Chemistry I” and “Inorganic Chemistry” |
| Common Courses for All Majors | - Bachelor Thesis Research I, II: Must select a research topic and faculty advisor.  ※ Within the deadline, you must submit “Request for Graduation and Certification of Credits for Graduation” and “Application for Bachelor Thesis Research” along with ZEUS online thesis research course registration. (Please check for announcements regarding time and procedure)  - Credits earned in summer or winter semester immediately before graduation do not get recognized towards credit for graduation (i.e., a student expected to graduate in Feb, 2022 will not have their 2021 winter semester credits counted toward graduation). |
| - Biochemistry I (CH3106/BS3113), II (CH4219/BS3101): These courses are available respectively for chemistry and bioscience majors and can only be taken under the respective major. Duplicate registry is not allowed.  ※ Biochemistry II (BS3101-EV3216) is double coded as Bioscience-Environment and follows normal double code course regulations.  ※ Physics, electrical engineering and computer science, mechanical engineering, and materials science majors can select only one of the two.  ※ In other words, within the above regulations, all students can register for only one of the two courses.  - **Organic Materials Chemistry**. Students who have completed **at least one of the following courses cannot register for Organic Materials Chemistry**: Materials and Organic Chemistry/MA3201, Organic Chemistry I, II.  ※ Students who have completed Organic Materials Chemistry (or Materials and Organic Chemistry) may register for Organic Chemistry I and II.  ※ Organic Materials Chemistry can be taken simultaneously with Organic Chemistry I or II. |
| Common Courses | **- GIST Colloquium (UC9331)**: Course name changed from GIST Seminars. Sophomores and up can register for this course. Requires 2 semesters.  - Scientific Advancement and Economics: 1 semester required for students admitted in 2017 and afterwards.  - Community Service, Overseas Service: **A maximum of only 1 credit is recognized for the completion of both courses.**  - Creative Development: Recognized as 1 credit. |

**D. Other Issues Regarding Course Registration**

1. Registering for Courses with Prerequisites

- If a particular course in a curriculum is labeled as having a prerequisite course, only students who have completed that prerequisite course may register.

2. Registering for Courses of Other Majors

- When registering for courses in other majors, with the approval of the course professor, you can select the preferred marking method for your grade. With the “grade calculation method” (A+, A0, ... F), your grade is reflected in your GPA; while with the satisfactory/unsatisfactory marking method (S/U), your credits are recognized, but the grade is not reflected in your GPA. This method marks your grade as (S) for grades C+ or above.

- **The limit to opting for the satisfactory/unsatisfactory marking method is 12 credits.**

※ Procedure for Course Professor Approval: In the remarks section of your registration, state your preferred method of grade marking and submit your registration with the signature of the course professor.

※ Students in the President’s Scholarship Program cannot choose the S/U marking method for registering for courses from other faculties.

3. All courses offered at the graduate school can be taken (excluding research courses).

※ **Recognition of credit acquisition between programs (Academic Regulations)**

Article 39-2 (Credit acquisition between programs). Undergraduate students may complete a graduate school course and receive credit towards undergraduate graduation. If your average grade for your credits, excluding the graduate course, is C or higher, you can have them counted toward your graduate school program. However, this will not be included in calculating your grade point average (GPA).

※**Recognition of previously acquired credit (Curriculum Operational Guidelines)**

Article 35-2 (Recognition of previously acquired credit). According to the above academic regulation, Article 39-2, students may acquire credit from a graduate school course and apply it to their undergraduate program. If their grade point average (GPA), excluding the graduate courses, is C or higher, up to 9 credits can be recognized for the graduate school program.

4. Students should be fully aware of credit requirements for graduation regarding major credits and the limited recognition for humanities and social studies credits when registering for courses.