

# (2024 Fall Semester) Detailed Instructions and Notices for Undergraduate Course Registration

## I Important Notes

### 1. Credit Limits for Course Registration

- Students can enroll in a minimum of 11 credits and a maximum of 21 credits per semester. However, if the student's GPA in the previous semester is 3.0 or higher, they can enroll in up to 24 credits with the advisor's approval.
  - ※ The minimum credit requirement (11 credits) does not apply in the semester before graduation. (However, caution is needed as it may cause issues if graduation is delayed.)
- Students who register for fewer than 11 credits will not receive student loans or meal subsidies for the following semester.
  - ※ If the final grade is an F, the credit is not earned, and if the total credits for the semester fall below 11 credits due to F grades, financial aid may be restricted.
- Courses offered by the department with double codes cannot be registered under other department codes and will only be recognized in one desired field during graduation review.

### 2. Restrictions and Fees for Retaking Courses

- If a student receives an F in a required course, they must retake and pass the course.
- Students can only retake courses where they received a grade of C0 or below.
- The grade for a retaken course cannot exceed B+, and if the retaken grade is lower, the initial grade will be used in the GPA calculation.
- An additional fee set by the Tuition Review Committee must be paid for retaking courses.
  - ※ 50,000 KRW per credit/hour for non-credit courses.
- Retakes are only allowed under the initial grade format.
  - ※ Grade (initial) → Grade (retake) / S/U (initial) → S/U (retake)

### 3. Manual Registration Requests

A. Request Period: August 13, 2024 (Tue.) - September 12, 2024 (Thu.) 18:00

#### B. Eligible Cases for Request

- 1) If replacement courses due to curriculum changes are not linked as prerequisite courses in the online registration system.

- 2) If courses completed at Berkeley or other institutions are recognized as specific prerequisite courses but not linked in the online system.
- 3) If the transcript for courses completed at Berkeley or other institutions is delayed, affecting the credit recognition process.
- ※ From the second semester of 2015, reasons like completing similar prerequisite courses are not generally accepted.

#### C. Request Procedure:

- Complete the manual registration form and submit it to the responsible person (Registrar's Office: Jeong Eun-Ju, extension 2057, Email: jeongej@gist.ac.kr).
- ※ Form: Refer to Attachment 3 on the GIST website under '[Campus Life - Academic Information - Academic Notices](#)'.

#### D. Important Notes

- Manual registration is possible only for courses with available slots as of 18:00 daily during the registration period.
- If no slots are available at 18:00, additional registration is at the discretion of the course instructor.
- Incomplete information may result in registration failure.
- Ensure to verify completion and the marking method after registration.  
(Follow the same procedure as for general course registration inquiries)
- ※ Some courses may not allow S/U grading; check before applying.

#### 4. Courses taken at other universities such as UC Berkeley will not be recognized for graduation credits if similar or identical courses are repeated.

## II Field-specific Completion Requirements

### 1. Liberal Arts and Sciences Requirements

#### A. General Sciences

Category		Course Title	Required Credits	Remarks
수학 Mathematics		미적분학과 응용 또는 고급미적분학과 응용 Single Variable Calculus and Applications or Single Variable Calculus & Applications - Honors	3	
		다변수해석학과 응용 또는 미분방정식과 응용 또는 선형대수학과 응용 또는 기초미분방정식과 선형대수의 응용 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 <b>select 1 of the 4 courses</b>
기초과학 (강의) General Sci. (Lecture)	전컴 EECS	컴퓨터 프로그래밍 Computer Programming	9	Required to <b>select 3 courses</b> from Electrical Eng. and Computer Sci., Life Sci., Physics, and Chemistry
	생명 Life Sci.	생물학 또는 인간 생물학 Biology or Human Biology		
	물리 Physics	일반물리학 및 연습 I 또는 고급일반물리학 및 연습 I General Physics and Recitation I or General Physics and Recitation I - Honors		
	화학 Chemistry	일반화학 및 연습 I 또는 고급일반화학 및 연습 I General Chemistry and Recitation I or General Chemistry and Recitation I - Honors		
기초과학 (실험) General Sci. (Experiment)	생명 Life Sci.	일반생물학실험 General Biology Laboratory	2~3	Completion of related lecture courses in the field is required
	물리 Physics	일반물리학실험 I General Physics Experiment I		
	화학 Chemistry	일반화학실험 I General Chemistry Experiment I		

※ Experiments must be preceded or accompanied by the corresponding lecture courses

※ Without EECS lectures: all Biology, Physics, and Chemistry lectures and experiments are required.

※ With EECS lectures: select 2 fields and complete linked experiments with the lectures.

## B. Basic Language Field

Category		Course Title	Credits	Remarks
영어 English	필수 Required	학술영어 Academic Discourse	3:0:2	Minimum of 4 credits required
	필수 Required	영어 II: 이공계 글쓰기 입문 English II: Introduction to Academic Writing in Science and Engineering	3:0:2	
글쓰기 Writing in Korean	필수 Required	글쓰기의 기초: 논리적 글쓰기 Writing I: Logical Writing	3:0:3	Required to select 1 of 6 courses  ※ The three courses under 'Writing I' and the three courses under 'Writing II' are considered the same course. ※ Students who have completed the 'Writing I' course may take the 'Writing II' course as an additional subject (reverse enrollment is not permitted).
		글쓰기의 기초: 학술적 글쓰기 Writing I: Academic Writing	3:0:3	
		글쓰기의 기초: 창의적 글쓰기 Writing I: Creative Writing	3:0:3	
		심화 글쓰기: 과학 글쓰기 Writing II: Writing about Science	3:0:3	
		심화 글쓰기: 고전 읽기와 글쓰기 Writing II: Reading the Classics & Writing	3:0:3	
		심화 글쓰기: 비평적 글쓰기 Writing II: Critical Writing	3:0:3	

## ※ Guidelines for English Course Enrollment

If a student registers for an English course and is absent for the first three consecutive classes without prior notice, it will be considered as a lack of intent to attend the course, and the grade for that course will be marked as 'F(U)'.

- For students who miss the first three consecutive classes after registering for an English course:
  - If absent until the second class after the start of the semester, individual prior notice will be given.
  - If absent for three consecutive classes, the grade for the course will be marked as 'F(U)'.
- For students exempted from English courses (e.g., international students) or those who wish to register for an English course that is over capacity:
  - After the registration period ends and before the semester starts, students must fill out the 'Additional Course Registration Form' and submit it directly to the Academic Planning Office on the 3rd floor of the Administration Building.
  - Those who submit the form will be placed on a waiting list for the course and, if there are any remaining spots, will be added on a first-come, first-served basis (Note: Registration is not guaranteed)

### C. Korean Language courses

#### 1) Required for graduation (International students only)

Category	Course code	Course Title	Credits	Remarks
필수 Required	GS1902	기초 한국어 Basic Korean	3:0:0	
	GS1903	초급 한국어 1 Beginner Korean 1	3:0:2	pre-req.: GS1902
	GS1904	초급 한국어 2 Beginner Korean 2	3:0:2	pre-req.: GS1903
선택 Elective	GS1905	중급 한국어 Intermediate Korean	3:0:2	
	GS1906	한국어 어휘 연습 Practical Korean Vocabulary	3:0:2	

※ 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

#### 2) Other Korean Courses (International students only)

Electives in Humanities and Social Science (Korean Courses)	Classification	Course code	Course Title	Credits	Remarks
	HUS	GS2581	Understanding Korean Culture	3:0:3	6 credits of HUS required for graduation
	HUS	GS2582	History of Hangeul	3:0:3	

※ 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.

#### 3) 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.

### D. Humanities and Social Sciences

- 1) Classified into HUS (Humanities, Social Sciences, Philosophy), PPE (Philosophy, Politics, Economics), and GSC (General Electives)
- 2) Minimum of two courses (6 credits) from each HUS and PPE, totaling 12 credits
- 3) A minimum of 24 credits required for graduation
- 4) Classification of Courses (such as Course Categories): Refer to the Division of Liberal Arts and Sciences' curriculum and course offering plan.

## E. Software

Category	Course Title	Credits	Remarks
필수 Required	SW기초와 코딩(GS1490) Software Basics and Coding (GS1490)	1:2:2	
	(MOOC 지정) 파이썬 기초(GS1499) Python Basics (GS1499)	1:2:2	Only international students can take this course.

- ※ Students who have completed 'Computer Programming (GS1401)' are exempt (excluded): They cannot complete 'Software Basics and Coding' or '(MOOC) Python basics' after completing 'Computer Programming'.
- ※ Conversely, students can complete 'Computer Programming' after completing 'Software Basics and Coding' or '(MOOC) Python basics'.

## F. Physical and Artistic Practices

- Complete two semesters of physical practice and two semesters of artistic practice
- ※ Free enrollment is allowed for up to four semesters each for physical education and artistic practice.

## 2. Major-specific Required Courses

### A. Common guidelines for all majors

- 1) Students who have not completed the major-required courses: If a major-required course that they have not completed is either discontinued or changed, they must substitute it with the new or revised course.
- 2) 2000-level courses do not count towards minor completion credits unless specifically stated

### B. Major-required courses

#### 1) Electrical Engineering and Computer Science

Course Code	Course Title	Credits	Remarks
EC3101	전자공학 실험 Electronic Engineering Experiment	1:4:3	Select 1
EC3102	컴퓨터 시스템 이론 및 실험 Computer Systems Theory and Experiment	2:4:4	

#### 2) Semiconductor Engineering (Students who enrolled from 2024 onwards)

Course Code	Course Title	Credits	Remarks
SE1101	반도체공학개론 Introduction of Semiconductor Engineering	3:0:3	
SE2101	물리전자 개론 Introduction to Physical Electronics	3:0:3	
SE2201	반도체 공정 기초 이론 Basic Semiconductor Processing	3:0:3	

## 3) Materials Science and Engineering

Course Code	Course Title	Credits	Remarks
MA2101	재료과학 Introduction to Materials Science and Engineering	3:0:3	
MA2102	열역학 Thermodynamics	3:0:3	
MA2103	유기재료화학 Organic Materials Chemistry	3:0:3	
MA2104	고분자과학 Introduction to Polymer Science	3:0:3	
MA3104	전자재료실험 Electronic Materials Laboratory	1:4:3	
MA3105	유기재료실험 Organic Materials Laboratory	1:4:3	

## 4) Mechanical and Robotics Engineering

Course Code	Course Title	Credits	Remarks
MC2100	열역학I Thermodynamics	3:0:3	
MC2101	고체역학I Solid Mechanics	3:0:3	
MC2102	유체역학I Fluid Mechanics	3:0:3	
MC2103	동역학 Dynamics	3:0:3	
MC3106	기계공학실험 I Mechanical Engineering Laboratory I	1:4:3	
MC3107	기계공학실험 II Mechanical Engineering Laboratory II	1:4:3	

## 5) Environmen and Energy Engineering (Students who enrolled from 2024)

Course Code	Course Title	Credits	Remarks
EV3101	환경공학 Environmental Engineering	3:0:3	
EV3106	환경분석실험 I Environmental Laboratory I	1:4:3	
EV3111	지구시스템과학 Earth Environmentology	3:0:3	
EV3112	환경·에너지과학통계 Statistics for Environment and Energy Sciences	3:0:3	
EV4107	환경분석실험 II Environmental Laboratory II	1:4:3	

※ Students who enrolled between 2018 and 2023: Environmental Engineering, Environmental Laboratory I, Earth Environmentology, Earth and Environmental Transport Phenomena, Environmental Laboratory II.

※ Students who enrolled 2018 and 2023 and have not completed 'Earth and Environmental Transport Phenomena', they must either take 'EV4243 Momentum, heat and mass transfer' as a substitute or complete 'EV3112 Statistics for Environment and Energy Sciences'.

## 6) Life Sciences (Students who enrolled in 2023)

Course Code	Course Title	Credits	Remarks
BS2102	분자생물학 Molecular Biology	3:0:3	
BS2103	생화학 · 분자생물학 실험 Biochemistry·Molecular Biology Laboratory	1:4:3	
BS2104	생화학 I Biochemistry I	3:0:3	
BS3101	생화학 II Biochemistry II	3:0:3	
BS3105	세포생물학 Cell Biology	3:0:3	
BS3112	세포 · 발생생물학 실험 Cell & Developmental Biology Laboratory	1:4:3	

※ Students who enrolled between 2018 and 2022: Organic Chemistry I, Biochemistry I, Biochemistry II, Cell Biology, Molecular Biology, Biochemistry · Molecular Biology Laboratory, Cell & Developmental Biology Laboratory

## 7) Physics and Photon Science

Course Code	Course Title	Credits	Remarks
PS2101	고전역학 및 연습 I Classical Mechanics and Recitation I	3:1:3	
PS2102	전자기학 및 연습 I Electromagnetism and Recitation I	3:1:3	
PS2103	전자기학 및 연습 II Electromagnetism and Recitation II	3:1:3	
PS3103	양자물리 및 연습 I Quantum Physics and Recitation I	3:1:3	
PS3104	양자물리 및 연습 II Quantum Physics and Recitation II	3:1:3	
PS3105	열역학 및 통계물리 Thermodynamics and Statistical Physics	3:0:3	
PS3106	물리실험 I Experimental Physics I	1:4:3	
PS3107	수리물리 I Mathematical Methods of Physics I	3:1:3	

## 8) Chemistry

Course Code	Course Title	Credits	Remarks
CH2101	분석화학 Analytical Chemistry	3:0:3	
CH2102	물리화학 A Physical Chemistry A	3:1:3	
CH2103	유기화학 I Organic Chemistry I	3:0:3	
CH2104	물리화학 B Physical Chemistry B	3:0:3	
CH2105	화학합성실험 Synthesis and Analysis of Organic and Inorganic Compounds	1:4:3	
CH3106	생화학 I Biochemistry I	3:0:3	
CH3208 CH3107	무기화학 I Inorganic Chemistry I	3:0:3	Students from the class of 2021 onwards are required to take 'Inorganic Chemistry I'

※ For All Classes: Enrollment in both 'Physical Chemistry II' and 'Physical Chemistry A', or 'Inorganic Chemistry I' and 'Inorganic Chemistry' is not allowed as they are considered the same course.



### 3. Requirements for Minor, Double Major, and Advanced Major

Please refer to the GIST website under '[Campus Life – Academic Information – Academic Handbook \(Undergraduate\)](#)' for the relevant information.

## III Courses Offered and Timetable – To Be Announced

## IV Physical Education and Arts Courses

### 1. Fees for Physical Education and Arts Courses

- If the number of enrollments in physical education or arts courses exceeds 4 semesters, a re-enrollment fee must be paid (100,000 KRW for a 2-hour class).
- ※ In case of oversubscription, priority will be given to the students who are enrolling for the first time and those within the required semester range.

### 2. Minimum Enrollment for Physical Education and Arts Courses

- A. To enhance the efficiency of course operations, physical education and arts courses with 5 or fewer enrollees will be canceled.
- B. Students who have registered for canceled courses must make alternative arrangements as per further instructions.

### 3. Additional Information

- A. Instruments should generally be provided by the students themselves (except for piano and drums). However, flutes can be rented from the faculty, while clarinets, violins, electric guitars, and cellos are available for rent through the Liberal Arts and Sciences administrative office (located in College A, Room 220).
- B. Golf and Bowling: Location to be determined; costs will be borne by the individual students (further notice will be provided).
- C. Courses at the Second Student Union Bldg. 2 (swimming, fitness, etc): Costs will be borne by the individual students. Information and payment details will be provided at the Second Student Bldg. 2 registration office.

## Important Notes for Course Registration by Subject and Department

### 1. Important Notes for Undergraduate Major and Common Course Registration

Majors	Important Notes
Materials Sci. and Eng.	<p>1) For students who declare or change their major to Materials Sci. and Eng. after completing “Organic Chemistry I”: If they complete “Organic Chemistry II” additionally, “Organic Chemistry II” can be recognized as fulfilling the 3 credits of the major-required “Organic Materials Chemistry.”</p> <p>※ The previously completed “Organic Chemistry I” will be recognized as 3 credits of free electives.</p> <p>2) For students who declare or change their major to Materials Sci. and Eng. after completing both “Organic Chemistry I and II”: “Organic Chemistry II” can be recognized as fulfilling the 3 credits of the major-required “Organic Materials Chemistry.”</p> <p>※ The previously completed “Organic Chemistry I” will be recognized as 3 credits of free electives.</p>
Life Sci.	<p>- GS1321 Liberal Arts Biology: Not available for Life Sci. students (including major entrants); credits will not be recognized for graduation if taken</p>
Physics and Photon Sci.	<p>- Important Information for Prospective Physics and Photon Science: It is recommended to take the courses “Differential Equations and Applications” and “Introduction to Linear Algebra and Applications” from the Liberal Arts and Sciences curriculum.</p> <p>- The seminar course “The present and future physics research” will not be counted towards graduation credits.</p> <p>- Enrollment in “Introduction to Modern Physics (PS2201)” is restricted if currently enrolled in or after completing “Quantum Physics and Rec. I (PS3103).”</p> <p>※ However, enrollment is possible if deemed necessary after consultation with the instructor and department chair.</p>
Chemistry	<p>- “Physical Chemistry II” and “Physical Chemistry A” , “Inorganic Chemistry I” and “Inorganic Chemistry” are considered the same course and cannot be taken twice.</p>
Common to All Majors	<p>- Biochemistry I, II: Biochemistry I (CH3106/BS3113) and Biochemistry II (CH4219/BS2104) offered by the Department of Chemistry and the School of Life Sciences respectively, can only be taken from the respective department and cannot be taken twice.</p> <p>※ Biochemistry II (BS3101-EV3216) designated as a double code for Life Sciences and Environment and Energy Eng. follows the general double code course criteria.</p> <p>※ EECS, Materials Sci. and Eng., Mechanical and Robotics Eng., Physics and Photon Sci. students: Can only select 1 course.</p> <p>※ Therefore, all students can only take one course within these guidelines.</p> <p>- Organic Materials Chemistry: Students who have completed either “Organic Chemistry I” or “Organic Chemistry II” cannot take “Organic Materials Chemistry.”</p>

	<ul style="list-style-type: none"> <li>※ Conversely, students who have completed “Organic Materials Chemistry” can take “Organic Chemistry I” or “Organic Chemistry II.”</li> <li>※ Simultaneous enrollment in “Organic Materials Chemistry” and either “Organic Chemistry I” or “Organic Chemistry II” within the same semester is allowed.</li> </ul>
Common Courses	<ul style="list-style-type: none"> <li>- GIST Freshman Seminar (GIST101): Mandatory for first semester of the first year.</li> <li>- GIST 102: Mandatory for the second semester of the first year for the Class of 2021 onwards. (excluding the Department of Semiconductor engineering)</li> <li>- GIST College Colloquium (UC9331): Available for enrollment starting from the second year, with two semesters required.</li> <li>※ However, Semiconductor Engineering Department is required to take one semester of GIST University Colloquium and one semester of Semiconductor Colloquium.</li> <li>- Science, Technology and Economy (UC0901): 1 credit is mandatory for students who enrolled from 2017 onwards.</li> <li>- Volunteer Social Service (UC0201), Overseas Volunteer Service (UC0203): Maximum of 1 credit recognized even if both courses are completed.</li> <li>- Creativity Cultivation (UC0202): Maximum of 1 credit recognized.</li> </ul>

## 2. Other Course Registration Guidelines

### A. Prerequisite Courses

- For courses that have prerequisites listed in the curriculum, only students who have completed the prerequisite courses are allowed to register.

### B. Registration for Courses from Other Majors

- When registering for courses from other majors, students may choose the “Pass/Fail (S/U)” grading option with the approval of the course instructor. In this case, the credits earned will be recognized but will not be included in the GPA calculation. A grade of C+ or higher is considered a Pass (S).
  - ※ However, this excludes common courses (UC, CC, etc.), courses offered by the Division of Liberal Arts and Sciences(GS), and courses shared with other departments within the affiliated department (selection of pass/fail grading is not allowed).
- The selection of the “Pass/Fail (S/U)” grading option is limited to a maximum of 12 credits during the undergraduate program.
  - ※ Instructor approval process: After completing course registration, indicate the “Pass/Fail (S/U)” option in the remarks section of the registration form and submit it with the instructor’s confirmation (signature).
  - ※ Presidential scholars are not allowed to select the “Pass/Fail (S/U)” option for courses from other departments.
  - ※ Courses offered with the “Pass/Fail (S/U)” grading option cannot be changed to the standard grading system (A+, A0, ..., F).

- C. Undergraduate students are allowed to take any graduate-level courses, except for research courses.

### 1) Credit Transfer Between Programs (Academic Regulations)

Article 39-2 (Credit Transfer Between Programs) ① Undergraduate students may earn credits

from graduate courses and include them in the credits required for undergraduate graduation. Remaining credits, excluding those included for undergraduate graduation, can be counted towards graduate program graduation if the grade is C or higher, but they are not included in the GPA calculation.

## 2) Recognition of Pre-acquired Credits (Curriculum Guidelines)

Article 35-2 (Recognition of Pre-acquired Credits) ① In accordance with Article 39-2, Paragraph 1 of the Academic Regulations, undergraduate students may earn credits from graduate courses to be included in the credits required for undergraduate graduation. Remaining credits, excluding those included for undergraduate graduation, can be recognized up to a maximum of 9 credits upon entering the graduate program if the grade is C or higher.

- D. Students should consult the academic handbook and other resources to understand the graduation requirements, including limitations on major credits and humanities and social sciences credits, prior to course registration.

## VI

### **Guidelines for Enrolling in the Bachelor's Thesis and Submitting the Thesis Research Application**

1. Students expecting to graduate in February 2025 should refer to the 'Graduation Application and Graduation Requirements Checklist' posted on the GIST website under '[Campus Life – Academic Information – Academic Resources](#).'

Please make sure to **review the specific submission documents and details for each schedule through the announcements and website of your respective department**, and ensure that all materials are submitted by the deadline.

- ※ Credits earned during the winter semester immediately before graduation will not be counted towards graduation requirements.  
(e.g., For students graduating in February 2025, credits from the winter semester of 2024 will not be recognized.)

2. Enrollment in Undergraduate Thesis Research I or II **requires completing all procedures within the specified period, including online (ZEUS) course enrollment, selection and input of a thesis advisor, and submission of the Undergraduate Thesis Research Application**

- ※ For information on enrollment procedures for Undergraduate Thesis Research, please refer to the 'Guidelines for Changes in Enrollment Procedures for Undergraduate Thesis Research' on the GIST website under '[Campus Life – Academic Information – Academic Notices](#)'.

- ※ [For detailed information, please refer to your department's notices and website.](#)