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# 2023 Spring Graduate Program Handbook

Educational Affairs Team

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#### Ι

#### UNIST Honer Code UNIST 명예규율

- 1. The members of UNIST will behave conscientiously all academic procedures.
- 2. The members of UNIST will not cause harm or damage to others.
- The members of UNIST will not violate the law in all the procedures required for learning, teaching and researching, and in providing service.
- 4. The members of UNIST will respect each other and all members of the community.
- 5. The members of UNIST will be honest and diligent in academic and social lives.

#### П

#### Academic Calender 2023 학사력

Sem.	Month	Date	Schedules
	2	27(Mon)	2023 Spring Semester / classes Begins
		1(Wed)	Holiday – Samiljeol(Independence Movement Day)
	3	2.27(Mon) ~ 3.3(Fri)	Course Changes and confirmation, Spring Application for graduation & early graduation
		24(Fri)	End of first quarter of the semester, Course Drop Deadline
		17(Mon) ~ 21(Fri)	Mid-term Exams
	4	21(Fri)	End of second quarter of the semester, Leave of Absence application deadline(General)
		5(Fri)	Holiday - Children's Day
		8(Mon) ~ 12(Fri)	Application for return from absence(Summer Session)
	5	19(Fri)	End of third quarter of the semester [G]Deadline for Thesis Committee Nomination
2		22(Mon) ~ 26(Fri)	[UG] Major application & change period
0		25(Thu) ~ 26(Fri)	[UG/G]Course Registration for the summer session
2		27(Sat)	Holiday – Buddha's birthday
3		6(Sun)	Holiday - Memorial Day
	6	12(Mon) ~ 16(Fri)	Final Exams
Spring		16(Fri)	End of spring semester
Sem		17(Sat) ~ 8.27(Sun)	Summer Vacation
ester		19(Mon) ~ 7.28(Fri)	Summer Session
		3(Mon)	Confirmation of Spring 2023 Grading
	7	3(Mon) ~ 14(Fri)	Application for 2023 Fall Leave of absence/return(1st) [G]Application for Program Change
		3(Thu) ~ 4(Fri)	[UG/G] Course Registration for fall semester
		7(Mon)	Confirmation of Summer 2023 Grading
		7(Mon) ~ 18(Fri)	Application for 2023 Fall Leave of absence/return(2nd)
		15(Tue)	Holiday - National Liberation Day
	8	18(Fri)	Conferral of degrees(2023-1st)
		22(Tue) ~ 24(Thu)	Tuition fee payment(2023 Fall)
		28(Mon)	2023 Fall semester begins / classes begin
		28(Mon) ~ 9.1(Fri)	Course changes and confirmation Fall Application for graduation & early graduation

Sem.	Month	Date	Schedules
		22(Fri)	End of first quarter of the semester, Course Drop Deadline
_	9	28(Thu)	Holiday - UNIST Foundation Day
		28(Thu)~ 30(Sat)	Holiday - Chuseok(Korean Thanksgiving Day)
		3(Tue)	Holiday - National Foundation Day
		9(Mon)	Holiday - Hangul Proclamation Day
	10	16(Mon) ~ 20(Fri)	Mid-term exams
		20(Fri)	End of second quarter of the semester Leave of Absence application deadline(General)
		6(Mon) ~ 10(Fri)	Application for return from absence(Summer Session)
	11	17(Fri)	End of third quarter of the semester [G]Deadline for Thesis Committee Nomination
2		20(Mon) ~ 24(Fri)	[UG] Major application & change period
0		23(Thu) ~ 24(Fri)	[UG/G] Course Registration for the winter session
3		11(Mon) ~ 15(Fri)	Final Exams
	12	15(Fri)	End of fall semester
Fall		16(Sat) ~ 2024.2.25(Sun)	Winter Vacation
Sem ester		18(Mon) ~2024.1.26(Fri)	Winter Session
		25(Mon)	Holiday - Christmas
		1(Mon)	Holiday – New Year's Day
	2024	2(Tue)	Confirmation of Fall 2023 Grading
	1	2(Tue) ~ 12(Fri)	Application for Leave of absence/return(1st) (Spring 2024) [G]Application for Program Change
		1(Thu) ~ 2(Fri)	[UG/G] Course Registration for spring semester
		5(Mon)	Due date for winter session grading
		5(Mon) ~ 16(Fri)	Application for 2024 Leave of absence/return(2nd)
	2	9(Fri)~11(Sun)	Holiday – Lunar New Year's Day
		15(Thu)	Conferral of degrees(Fall 2023), Commencement Ceremony
		20(Tue) ~ 22(Thu)	Tuition fee payment(Spring 2024)

#### Ш

#### General Academic Policies 학사일반

#### 1. Program Period 과정연한

#### ☐ Class Period 수업연한

- The period required for graduation or course completion
- · Master's Program: 2 years (4 semesters)
- · Doctoral Program: 4 years (8 semesters)
- · Combined Master's-Doctoral Program: 6 years (12 semesters)

#### ☐ Shortest Period of Study 최단수업기간

- The shortest period required for graduation or course completion
  - · Master's Program & Doctoral Program: two or more semesters
  - Combined Master's-Doctoral Program: a full-time classes of four semesters or more

#### □ Attendance Period 재학연한

- o The maximum period that is allowed for students to enrolled
- · Master's Program: 3 years (6 semesters)
- Doctoral Program: 6 years (12 semesters)
- · Combined Master's-Doctoral Program: 7 years (14 semesters)
- ※ The period of leave of absence shall not be counted in the attendance period. 휴학 기간은 재학연한에 산입하지 않음
- \* The attendance period may be extended for 1 year after review by the Academic Affairs Operation Committee
  - 재학기간 연장이 필요한 경우에는 학사운영위원회의 심의를 거쳐 1회에 한정하여 재학기간을 1년 연장할 수 있음(학칙 제69조4항)
- ※ A person who fails to obtain the degree after the length of enrollment has expired shall be expelled.
  - 재학연한 만료 시까지 본인의 학위과정 미이수 시 제적

#### 2. Academic Leave/Return 휴·복학

#### ☐ Academic Leave of Absence 휴학

- Reason for academic leave:
  - Military service
  - General reasons: family affairs, illness or other unavoidable reasons 휴학사유: 군입대, 질병, 그 밖의 부득이한 사유로 인한 일반 휴학
- Students are not allowed to take a general leave of absence in the first semester after admission except military service, pregnancy, childbirth or illness can be exceptional.

질병, 임신, 출산 또는 입대 및 제외한 입학 후 첫 1학기 휴학 불가

 General leave of absence may be extended up to 2 semesters on a semester basis, and shall not exceed 4 semesters in total during the period of attendance.

일반휴학은 학기 단위로 1회 최대 2학기까지 신청 가능 재학기간 중 통산 4개 학기까지 휴학할 수 있음

o If there are unavoidable reasons, the President may authorize additional leave of absence as below.

부득이한 사유가 있을 시 아래와 같이 총장이 추가 휴학을 허가할 수 있음

Unavoidable reasons	Period
pregnancy 임신	within 1 semester 1개 학기 이내
childbirth 출산	within 1 semester 1개 학기 이내
childcare 육아	within 6 semesters 6개 학기 이내
Business Start-up 창업	within 4 semesters 4개 학기 이내
Illness 질병	By the time of disease improvement 질병 호전시까지
Others 기타	

 Academic leave of absence shall not be allowed to technical research personnel. (Inquiry: Student Affairs Team)

전문연구요원의 경우, 원칙적으로 휴학 불가능함 (문의: 학생팀)

#### ☐ Academic Leave for/Return from Military Service 군휴학·군복학

• Student shall apply for academic leave of absence for military service to extend the previous leave of absence for enlistment. Student should attach copy of the notice of enlistment or military service confirmation. The student will be expelled after the designated period of academic leave ends.

휴학 중인 학생이 군입대로 인해 휴학기간 연장 시 입영통지서 사본 또는 군복무 확인서 첨부하여 반드시 군휴학을 신청하여야 함. 그렇지 않을 경우 기존 휴학기간 종료 후 제적 조치

#### 2. Academic Leave/Return 휴·복학

#### □ Application Period 신청시기

• Students can apply for their academic leave/return during the designated application period notified in the academic calendar. However, students who are discharged from military service within the first quarter of the semester can apply for their academic return in designated period of academic return schedule notified in the academic calendar.

학사력에 따른 신청 기간에 휴·복학 신청 가능. 단, 군 제대일자가 수업일수 1/4 이내일 경우 정해진 기간 내에 복학 신청 가능

 Student shall apply for academic leave until the second quarter of a semester. In this case, tuition will be carried over to the next semester.

(Student shall apply for sick leave at least 1 week before the final exam period.) 일반휴학은 수업일수 1/2선까지 신청 가능하며, 등록금은 다음 학기로 이월됨 (질병휴학은 기말고사 전 주까지 신청 가능)

 Any cancellation of leave of absence after the approval period from advising professor and department(school) head is avoided.

지도교수 및 학과(부)장 승인기간 이후 미승인된 휴학 건에 대해서는 학생의 학적 관리 및 고등교육통계 보고 등으로 인해 지체없이 승인이 필요하며, 승인 기간 이후 학생 임의의 휴학 취소는 지양함.

#### □ Procedure 절차

- ► Online Application 온라인 신청
- Apply for the application at the portal site (http://portal.unist.ac.kr)
   during the designated period.
   지정된 기간 내 포털에서 신청
- Log into the portal site > Student Registry > Status Change > Application for Academic leave/return
   (Approval by the advisor will be processed on the Portal Site)
   포털 로그인 > 학적 > 학적변동 > 휴.복학신청 (포털 상 지도교수 승인)
- ► Walk-in Application 방문 신청
- In case of academic leave for sick/illness, pregnancy·childbirth, child-care students have to fill out a 'Request for Academic Leave of Absence' and submit the request form with proof documents to the school office. 질병휴학, 임신/출산 휴학, 육아휴학의 경우, 휴학원 작성 및 증빙서류 구비 후 소속 교

학팀 제출

#### 2. Academic Leave/Return 휴·복학

#### □ Required Documents 필요서류

• Academic leave of absence due to illness:

A medical certificate from a national or public general hospital or a specialist

질병 휴학: 국·공립 종합병원 또는 병·의원 전문의 진단서

• Academic leave of academic for military service:

Copy of the notice of enlistment or military service confirmation

군 휴학: 입영통지서 사본 또는 군복무확인서

o Returning to the school from military leave:

A certificate of discharge or an abstract of resident registration (with details of military service recorded)

군 복학: 전역증 사본 혹은 주민등록 초본(병역사항 기재된 것) 첨부

#### □ Note 비고

• When applying for academic leave, student do not have overdue fees and return all books checked out.

모든 도서관 대출 도서가 반납되고 연체료가 없는 상태에서 휴학 신청 가능

Students may return their scholarship

장학금 반납이 필요할 수 있음

- Students who have been returning home during military leave must cancel their military leave and submit documents for proof of return within 7 days without delay and change to general leave of absence. 군휴학 중 귀가/귀향 조치된 학생은 지체 없이 최대 7일 이내 군휴학 취소 및 귀가/귀향 증명 서류 제출(소속 교학팀 및 학부 행정실) 및 일반 휴학으로 변경 필요
- Students should return to school within application period for returning school for the semester when the leave of absence period has expired. Students who did not return to school during the period shall be expelled. Therefore, students are required to apply for returning school procedure or take an additional leave of absence, within the remaining general leave quota.

복학 시기는 휴학기간이 만료된 학기의 복학 신청 기간까지이며, 이 기간에 복학을 하지 않은 자는 미복학 제적 처리 되므로, 반드시 복학신청이나 잔여 휴학 쿼터 안에서 휴학 연장 신청을 해야함.

#### 3. Selection and Change of Major 전공결정 및 변경

#### □ Selection of Major 전공결정

- All students in their first semester should decide their major, advisor and conduct a pledge of ethical research through portal
  - ► Portal → Academic Affairs → Student Registry → Student Info. → Advisor Appointment

모든 학생은 첫 학기에 전공 및 지도교수 결정, 윤리서약을 진행하여야 함

#### ☐ Change of Major 전공변경

- olt is possible for students to change his/her major with the president's permission. 총장의 허가를 받아 전공변경 가능
  - ► Required documents 필요서류
  - Application for Change of Major: Advisor's opinion and approvals of advisors and department heads (before/after) should be included

전공변경신청서(지도교수 의견 및 변경 전/후 지도교수 및 학과(부)장 승인)

※ Please refer to P.12 to find information in detail for change of major 전공변경 세부내용: P.12 참조

#### 4. Credit Transfer 학점인정

#### ☐ Credit Transfer 학점인정

• After voluntary withdrawal from UNIST or other accredited graduate schools and entered UNIST graduate program (same study program), student can transfer credits taken from the previous graduate school when they correspond with the courses in the UNIST curriculum.

본원 또는 타 대학 동일 학위과정 제적 후 해당 대학에서 취득한 학점은 UNIST 교육 과정에 상응할 경우 인정

 Only available for one half of the total course credits from other graduates schools can be recognized.

본원 또는 타 대학에서 취득한 각 과정 및 전공별 수료 교과학점의 2분의 1만 인정

• When students apply for the credit transfer, approval from their advisors and department heads should be given.

학점인정 신청 시, 지도교수 및 학과(부)장의 승인이 필요

Once credit is transferred, credits and grades earned during the previous degree will be notified in the transcript. However, the records shall be excluded from the calculation of the total average GPA of each course.

학점인정이 승인된 교과목은 울산과기원의 각 과정에서 이수한 학점 및 성적을 그대로 인정 표기하나, 각 과정의 전체 평점 평균 계산에는 제외

- ► Required documents: 필요서류
- · Credit Transfer Application Form 학점인정신청서
- Academic transcripts from the previous graduate school 이전 대학원 성적증명서
- · Syllabus 강의계획서
- · Proof of voluntary withdrawal 제적 증빙서류

#### 5. Credit Carryover 학점이윌

#### ☐ Credit Carryover 학점이월

• 1) Credits that exceed the number of credits required for graduation from the undergraduate course out of the total credits acquired after completing the undergraduate courses opened in the graduate program of UNIST.

본원 학사과정에서 취득한 대학원과정 과목 중 학사과정의 졸업에 소요되는 학점을 초과한 학점

O 2) Course credits of graduate schools can be accumulated and recognized as the number of credits required for completion from the doctoral course out of the total credits acquired after completing the master's course opened in the graduate program of UNIST.

본원 석사과정에서 취득한 교과학점을 박사 학위과정 교과학점으로 누적 인정 가능

o all or some of the total credits from UNIST can be recognized. (only available for course credits)

본원에서 취득한 학점의 전부 또는 일부를 인정 (교과학점만 인정)

• When students sign up for the credit carryover, approval from their advisors and department(School) heads should be given.

학점이월 신청 시, 지도교수 및 학과(부)장의 승인이 필요

Once credit is carried over, credits and grades earned during the previous degree will be notified in the transcript. And the records shall be included from the calculation of the total average GPA of each course.

학점이월이 승인된 교과목은 울산과기원의 각 과정에서 이수한 학점 및 성적을 그대로 인정 표기하며, 각 과정의 전체 평점 평균 계산시 포함

- ► Required documents: 필요서류
- · Credit Carryover Application Form 학점이월신청서
- · Academic transcripts 성적증명서 (하위과정 학점이수표)

#### 6. Transition of Degree Program 학위과정 변경

#### 1. Change of Degree Program 과정변경

1) Change of program means a change from the master's program to the combined master's and doctoral program.

과정변경: 석사과정 → 석박통합과정으로의 변경을 의미함

2) Students must acquire more than 16 credits and have a GPA of 3.7 or higher to apply for change of degree program. Students who is in class period of master's program(~4th semester) can apply it.

석사과정 수업연한(4학기) 이내인 학생이 16학점 이상 이수하고 평점평균이 3.7 이상인 경우 과정변경 신청 가능함

#### 2. Dropping of Degree Program 중도포기

1) Dropping of degree program means a change from the combined master's and doctoral program to the master's program.

중도포기: 석박통합과정 → 석사과정으로의 변경을 의미함

2) If a student attending the combined program ceases to study in the middle of the program after exceeding the duration limit of three years for a master's course, the student shall be expelled from the university if he or she fails to graduate within one semester after changing to a master's program.

석사 재학연한인 3년을 초과한 통합과정 학생이 석사과정으로 중도포기하는 경우 석사과정 변경 후 한 학기 내에 졸업하지 못하면 제적 처리됨

3) If a student attends the combined program after changing from the master's program as of the first semester in 2012, but completes the combined program with a master's degree, any additional scholarship the student received under the doctoral program may be redeemed from the student.

2012학년도 1학기 과정변경자부터 통합과정에 재학 중인 자가 석사학위를 수여하고 통합과정을 마칠 경우 박사과정생 적용을 통해 수령한 추가 장학금은 환수할 수 있음

#### □ Procedures 신청절차

- Change and Dropping of Degree Program 과정변경 또는 중도포기
  - Procedure: Fill out an application form → Get an approval of academic advisor and head of the department → Submit the form to the Academic and Student Affiars Team office

지도교수, 학과(부)장 승인 후 소속 교학팀에 서류 제출

- Form: Application for Change of Degree Program, Application for Dropping of Degree Program 과정변경신청서, 중도포기신청서
- o Application period: Refer to Academic Calendar 학사력 내 신청기간

#### 6. Transition of Degree Program 학위과정 변경

#### 3. Change of Major 전공변경

- 1) Change of major means a change from one department to another department or from one major to another major within a graduate degree.
  전공변경: 대학원과정생의 학위과정 내에서 학과(부) 또는 세부전공을 변경함
- 2) Students should submit an application for change of major to the head of the department. The student is changing to with the approval of the head of the department which the student is belonging to.

전공변경 신청 시 현 소속 학과(전공) 지도교수 및 학과(부)장 승인 후 변경하고자 하는 소속 학과(전공) 지도교수 및 학과(부)장 승인이 필요함

#### □ Procedures 신청절차

- Change of Major 전공변경
  - Procedure: Fill out an application form → Get an approval of academic advisor and department head in both department of current and expected to be changed → Submit the form to the Academic and Student Affiars Team office

현 소속 지도교수, 학과(부)장 및 변경소속 지도교수, 학과(부)장 승인 후 소속 교학팀에 서류 제출

- Form: Application for change of major 전공변경신청서
- Application period: Refer to Academic Calendar 학사력 내 신청기간

#### □ Notes 안내사항

• Procedure for change of degree program, dropping of degree program and change of major can be changed depending on the capacity of graduate course and departments' specific situations.

과정변경, 중도포기, 전공변경에 대해 추후 대학원과정 정원 및 학과별 상황에 따라 절차 변경 가능

 The deadline for each graduation requirements for students who changed their degree program, major or dropped degree is in accordance with the Regulations on the degree conferment and graduation requirements in each department or school.

과정변경, 전공변경, 중도포기 후의 졸업요건 충족(연구계획서 제출, 박사자격시험 등)에 대한 내용은 학위수여규정 및 학과별 요건에 따름

#### 7. Tuition Fee for Excess Semester 초과학기 등록금

#### ☐ Tuition Fee for Excess Semester depending on Required Credits

졸업 필요 학점에 따른 초과학기 등록금

• Students who enroll in excess of the years required for graduation from a school should pay a tuition fee depending on his/her remaining required credits for graduation.

초과학기 등록생은 졸업에 필요한 잔여학점에 따라 등록금을 납부하여야 함

Required Credits for graduation	Tuition Fee
졸업에 필요한 잔여학점	등록금
0 Credits	1/5
1~3 Credits	1/2
over 4 Credits	All

\* Required credits contain course and research credits both. 졸업에 필요한 잔여학점은 교과 및 연구학점을 모두 포함함

#### IV

#### Class 수업

#### Class 수업

#### □ Academic Year 학년

o Regular semesters: Spring and Fall for 16 weeks each

정규학기: 1, 2학기 각 16주

○ Seasonal sessions: Summer and Winter for 4~6 weeks each

계절학기: 여름 및 겨울계절학기 각 4~6주

#### □ Attendance 출결

 Students shall attend at least 3/4 of the total class hours for each course to have the grade be recognized

수업의 3/4 이상 출석 시 성적인정

o If a student wishes to be granted attendance due to unavoidable reasons, the student may submit the attendance acknowledgement to the faculty in charge of the course to have attendance recognized.

부득이한 사유로 출석 인정받고자 하는 경우, 출석인정원을 교과목 담당교수에게 제출하여 출석 인정 가능

#### □ Repeating a Course 재수강

• Repeating a course shall not be accepted, in principle, except when approved by the Vice President of Academic Affairs.

원칙적으로 재수강은 금지되어 있으나, 교학부총장의 승인을 받은 경우 예외

 When course repeating occurs, the previous grade should be deleted and the new grade remains with the mark "R" before its course classification. 재수강 시 이전 성적은 삭제되고, 새로운 성적 앞에 "R" 표기

#### V

#### **Grading 성적**

#### Grading 성적

#### ☐ Standards for Grading 성적 기준

o Instructors evaluate students' academic performance in accordance with the grading standards specified on the syllabus of their courses.

교수는 강의계획서 상 명시된 성적 기준에 따라 학업 성취를 평가

○ If a student attends less than 3/4 of the classes, his/her grade will be 'F'. 수업의 3/4 미만으로 출석 시 F 학점 부여

Scores are calculated based on mid-term exams, final exams, assignments, quizzes, attitude, attendance, presentations, etc.
 (Methods of evaluating grades may vary according to the course instructor) 성적은 중간고사, 기말고사, 과제, 퀴즈, 태도, 출석, 발표 등을 기초로 부여 성적 평가 방법은 교수에 따라 다양

#### ☐ Grading System 성적 체계

- Lecture courses and combined courses (lecture & experiment) are evaluated with a letter grade. Courses for which instructors have difficulty giving exact grades, such as for seminars, master's research, doctoral research etc., can be evaluated with S (successful) or U(unsuccessful)
  - 이론강의 및 강의와 실험을 병행한 교과학점 과목의 성적은 letter grade로 평가하며, 세미나, 논문연구와 같이 정확한 등급을 부여하기 곤란한 과목의 경우에는 S 또는 U로 평가
- o Grades over D- and S are recognized as acquired credits. Details of the grading system are as follows

D- 이상과 S를 취득학점으로 인정

Grades	A+	A°	A-	B+	В°	B-	C+	C°	C-	D+	D°	D-	F	S	U
Point	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7	0.0	Not Calculated	Not Calculated

• GPA is defined as follows:

 $GPA = \Sigma(Each grade point \times Credits)$ 

Applied credits

·GPA should be calculated to two decimal places.

G	ra	ď	in	q	성	적
•	u	•				

	Grade	browsing	성적	열람
--	-------	----------	----	----

Students can check their grade for each semester and their cumulative GPA at the portal site(http://portal.unist.ac.kr). Please click the menu of Grade and then go to Grade browsing section of this semester for more details.

포털에서 학기별 성적 및 GPA 조회 가능 (성적메뉴 > 성적 조회메뉴)

 When a student does not participate in course evaluation, he/she is not allowed to browse the grades. (Exception: seminar, master's research, doctoral research)

강의평가 미 이행 시, 성적 열람 불가 (예외: 세미나, 석·박사 논문연구)

#### ☐ Grade correction 성적 정정

• Students can see their grades during the correction period right after the end of the term. If a student has an objection about the grades he/she can request a grade correction to his/her instructor.

학기 종료 후 성적 정정기간에 성적 확인하여 이의가 있을 경우 교수에게 정정 요청 가능

#### □ Academic Warning 학사 경고

 Students who received a GPA lower than 3.0 will receive an academic warning.

매 학기 평점평균 3.0 미달 시 학사경고

• If a student receives an academic warning three times in total, he/she will be expelled. (impossible for readmission)

학사경고 통산 3회 시 제적 (재입학 불가)

#### VI

#### Degree Conferment 학위수여

#### 1. Degree Requirements 학위수여요건

Category	Requirements	Master's Program	Doctoral Program	Combined Master's-Doctoral Program	
	Total Credits	at least 28	at least 60	at least 60	
	Course Credits	at least 15	at least 12	at least 21	
	Research Credits	at least 4	at least 14	at least 18	
Requirement for Course	GPA	3.0(B0)	3.0(B0)	3.0(B0)	
Completion	Qualifying Exam	-		accordance with the ed by each school	
	Program Duration	■ minimum: 2years (can be reduced by 1 year) ■ maximum: 3years	■minimum: 4years (can be reduced by 3 years) ■maximum: 6years	■ minimum: 6years (can be reduced by 4 years) ■ maximum: 7years	
	Foreign Language Test	Implemented in accordance with the guidelines presented each department(school)/major			
	Oral Test (Major)	Implemented in accordance with the guidelines presented by each dept.(school)	-	-	
Requirement for Degree	Research Proposal	-	Should be submitted within two years after entrance		
	Publication	-	Implemented in accordance with the guidelines presented by each department(school)/major		
	Thesis/Dissertati on Defense	Implemented in accordance each department(school	ordance with the guool)/major	idelines presented by	

- \* The credit requirements above apply to students who enter from 2018 onwards.
- \* The credit requirements above is the minimum credit and students must meet their department's requirements.
- \* Course Credits: Credits earned for lecture courses in curriculum.
- \* Research Credits: Credits earned for courses such as Doctoral Research, Master's Research, and Seminars.
- \* Research Proposal: For students entered 2018 and before, refer to previous requirements

#### 2. Comprehensive Exam 종합시험

☐ Types of Test 시험유형							
o Foreign Language Test 외국어 시험							
o Oral Test (Major): Applicable to students in Master's Program							
구두시험(전공): 석사과정 해당							
<ul> <li>Qualifying Exam(Q.E.): Applicable to students in Doctoral Program and Combined Master's-Doctoral Program</li> </ul>							
박사자격시험(Q.E.): 박사과정 및 석·박사 통합과정 해당							
☐ Foreign Language Test 외국어 시험							
<ul> <li>Implemented in accordance with the guidelines presented by each department(school)/major</li> </ul>							
외국어시험: 대학원 전공별 요건에 따름							
☐ Oral Test 구두시험							
<ul> <li>Students in a Master's program must pass an oral test related to their major.</li> <li>The test can be given at the same time as the thesis defense.</li> </ul>							
석사과정 학생은 논문 디펜스 시 구두시험 통과해야 함							
☐ Qualifying Exam 자격시험							
<ul> <li>Doctoral and Combined Master's-Doctoral program students are required to pass the qualifying exam within 3 years after enrollment. Otherwise they are not allowed to submit their dissertations. In case student changes their major, the Qualifying Exam of changed major must be completed within 3 years. If a major is changed after three years, students must take changed major Qualifying Exam within three semesters of changing major.</li> </ul>							
박사과정 및 석·박사 통합과정 학생은 재학기간 3년 이내 Q.E.시험 통과해야 함. 그렇지 않을 경우 논문 제출 불가. 전공을 변경한 학생은 변경한 전공의 박사자격시험을 통과하여야 함. 3년이경과한 후 전공을 변경하는 경우 전공을 변경한 3개 학기 이내에 박사자격시험에 응시하여야함							
<ul> <li>The Qualifying Exam will be administered along with the guidelines presented by each major.</li> </ul>							
Q.E.는 전공별 기준에 따라 시행							

#### 3. Thesis Preparation 논문준비

#### ☐ Research Proposal 논문연구계획서

- \* It is not applicable to students in a Master's program 석사과정 해당 없음
- O A student planning to write a doctoral dissertation should submit a research proposal within two years after entrance. (applied to students who entered from Spring 2019) \*In case of students who have changed their degree program from Master's to Combined MS-Ph.D two years after admission, they must submit research proposal until the last day of degree changed semester.

박사학위 논문을 작성하려는 학생은 논문지도교수의 지도를 받아 입학 후 2년 이내 논문연구계획서 제출 필요 (2019학년도 1학기 입학생부터 적용). 입학 후 2년이 경과하여 과정변경을 신청한 학생의 경우 과정 변경이 적용되는 당해학기까지 논문연구계획서를 제출

#### ☐ Nomination of Thesis Dissertation Examining Committee 논문심사위원 위촉

- All students must submit a list of proposed thesis committee members by the end of the third quarter of the semester, provided that the student has successfully passed the Oral Test(Master), QE(Doctoral, Combined), English Test and has acquired required credits with a minimum 3.0 GPA. 모든 학생은 수업일수 3/4 선까지 논문 심사위원 위촉서 제출, 전공구두시험(석사), QE(박사, 통합), 외국어시험, 평점평균 3.0이상 요건 구비 필요
- The Nomination of Thesis/Dissertation Examining Committee template must then be completed by the student, signed by each committee members and submitted to Academic&Students Affairs Team in each college(for School of Business Administration: administrative office)
  - 각 논문심사위원 승인을 받아 소속 단과대학 교학팀 또는 학부행정실에 논문심사위촉서 제출
- A master's student's thesis committee must consist of at least three members(including the advisor). One of the thesis committee members might be outside UNIST with a related doctoral degree. 석사과정은 논문심사위원은 논문지도교수포함 3명을 위촉. 석사 논문심사위원 중 1명은 유사한 분야의 박사학위를 소지한 외부 인사를 위촉할 수 있음.
- O A doctoral/combined master's-doctoral student's thesis committee must consist of at least five members (including the advisor). Outsiders with a doctorate in a similar field or Faculty members from other departments must be appointed as one or more of the dissertation examiners, and there shall be three or more professors of UNIST.

박사 및 석·박사 통합과정은 논문심사위원이 논문지도교수 포함 5명(5명 중 1명 이상은 유사한 분야의 박사학위를 소지한 타 학과 교원 또는 외부인사를 반드시 위촉하여야 하며 울산과기원 교수가 3명 이상이어야함)

#### ☐ Plagiarism Checker: Turn it in 표절검사

- O All students should submit the result of the plagiarism analysis for their thesis when they defend their theses to the committee members. There is a plagiarism checker, called turn it in (http://www.turnitin.com) where the student can check his/her work for potential plagiarism by comparing it against the world's largest comparison database. 논문 디펜스 시 논문표절검사 결과 제출 필요
- A log-in account is issued when the student applies for the application through the Library homepage 로그인 계정은 도서관 홈페이지에서 신청하여 발급

#### □ Thesis Submission 논문 제출

• Students who pass the thesis defense and are ready for graduation, a hard cover thesis along with the electronic file should be submitted to the library during the designated period: 3 copies for Master's degrees and 3 copies for doctoral degrees.

디펜스 통과 후 지정된 기간 중 문헌정보팀에 전자파일 및 양장본 제출(석사 3부, 박사 3부)

#### 4. Degree Completion Process 학위이수과정

#### 4-1 | Master's Program Timeline

This chart displays the expected timeframe for completion of the major milestones in the program for the class entering in Spring 2023.

Master's Program Timeline Class Entering Spring 2023								
	202	3	20	24		20	25	
1 <sup>st</sup> s	semester	2 <sup>nd</sup> semester	1 <sup>st</sup> semester 2 <sup>nd</sup> semester JAN FEI					
Matr	riculation							
5	Selection of	Major and Advisor						
		2 Years of (	Class Period					
			Cour	rse Completion				
		Nomina	ation of Thesis Com	mittee				
			Thesis	s Defense				
	Thesis Committee Approval							
	Hardcover/E-file Thesis Submission							
				Grad	duati	on		

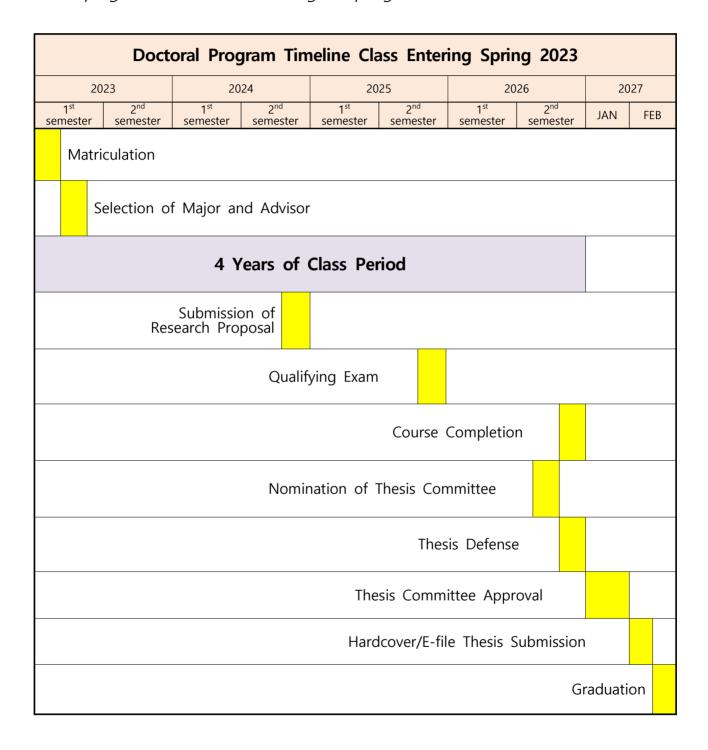
#### ☐ Steps for Master's Degree

Selection of Major and advisor		Foreign Language Test		Oral Test (Major)
<ul><li>☐ When: Beginning of first semester</li><li>☐ How: Apply through portal.</li></ul>	$\Rightarrow$	Implemented inaccordance with the guidelines presented by each department(school)/major	$\Rightarrow$	<ul> <li>□ When: The dates will be announced by the department. Oral test and thesis defense can be executed simultaneously.</li> <li>□ How: Students take an oral test on knowledge about major courses in English.</li> </ul>
Nomination of Thesis Committee		Course Completion		Thesis Defense
<ul> <li>□ When: By the end of the third quarter of the semester (After making thesis outline.)</li> <li>□ How: The advisor recommends the committee and report to the Vice President of Academic Affairs.</li> </ul>	$\Rightarrow$	☐ When: 2 years or shorter ((exceptional) ☐ How: -Duration: two years, -Credits: at least 28 credits -GPA: over 3.0.	$\Rightarrow$	<ul> <li>□ When: By the last week of the semester(After The final version of thesis draft is made)</li> <li>□ How: Defense on the thesis by oral and documentary test.</li> </ul>
Reporting the result of thesis defense		Thesis(Hard Cover) Submission		Screening of Candidates for graduation (Each Department)
<ul> <li>□ When: students are notified within the two weeks after the defense.</li> <li>□ How: The committee signs the thesis approval form and student submit the form to affiliated department/School.</li> </ul>	$\Rightarrow$	<ul> <li>□ When: In the designated period.</li> <li>□ How: Submit 3 hard copies and electronic copy to the Library.</li> </ul>	$\Rightarrow$	☐ When: During July/January ☐ How: When each school finishes the screening process, the list of prospective graduates is forwarded to the Academic Affairs Operation Committee
Screening of Candidates for graduation(Committee)		Commencement		
☐ When: During July/January		☐ When: On Feb. or Aug.		
☐ How: The Academic Affairs Operation Committee confirms the list of prospective graduates.	$\Rightarrow$			

#### 4-2

#### **Doctoral Program Timeline**

This chart displays the expected timeframe for completion of the major milestones in the program for the class entering in Spring 2023.



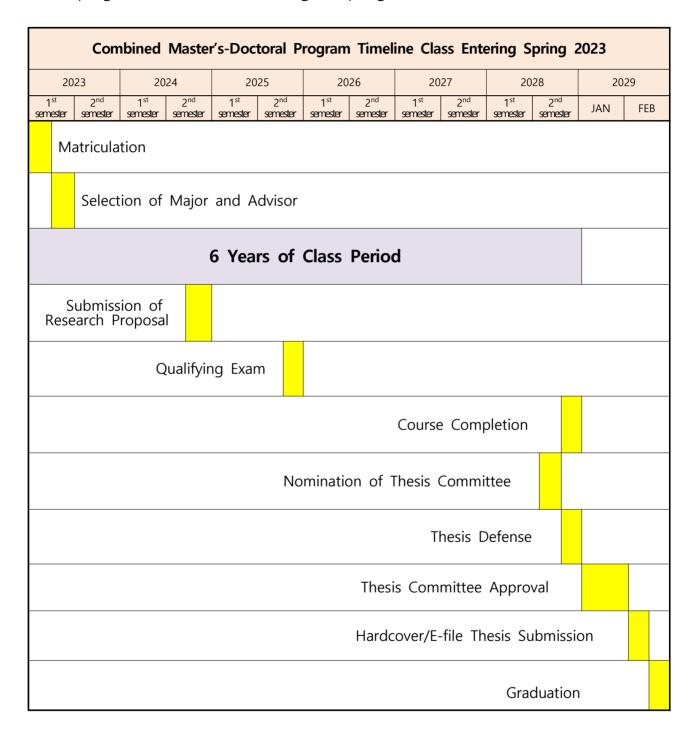
#### ☐ Steps for Doctoral Degree

Selection of Program and advisor		Research Proposal Submission		Foreign Language Test
□When: Beginning of first semester □How: Apply through portal.	$\Rightarrow$	□When: Submit within 2 years after entrance. □How: Submit it to the Portal after approvals of the advisor and the department(school) head.	$\Rightarrow$	Implemented inaccordance with the guidelines presented by each department(school)/major
Qualifying Exam(Q.E)		Report the Q.E Result		Publication
<ul> <li>□ When: Must be passed within 3 years after entrance(6th semester)</li> <li>□ How: After students submit the application, exams are administered under self regulation by each department.</li> </ul>	$\Rightarrow$	<ul> <li>□ When: Within one month after the exam.</li> <li>□ How: Each department submits the report to the Vice President of Academic Affairs</li> </ul>	$\Rightarrow$	<ul> <li>□ When: Before submitting the [Nomination of Thesis/Dissertation Committee].</li> <li>□ How: Submit evidence of publication to the school office.</li> </ul>
Nomination of Dissertation Committee		Dissertation Defense		Reporting the result of dissertation defense
<ul> <li>□ When: By the end of 3/4 of the semester. (After making thesis outline.)</li> <li>□ How: The advisor recommends the committee and report to the Vice President of Academic Affairs.</li> </ul>	$\Rightarrow$	<ul> <li>□ When: By the last week of the semester.(After the final version of thesis draft is made)</li> <li>□ How: Defense on the thesis by oral and documentary test are administered.</li> </ul>	$\Rightarrow$	<ul> <li>□ When: Notified to the students within two weeks after the defense.</li> <li>□ How: The committee signs the thesis approval form and student submit the form to affiliated department/School.</li> </ul>
Dissertation Submission (Hard Cover)		Screening of Candidates for graduation (Each Department)		Screening of Candidates for graduation (Committee)
<ul><li>☐ When: In the designated period.</li><li>☐ How: Submit 3 hard copies and electronic copy to the Library.</li></ul>	$\Rightarrow$	☐ When: July/January ☐ How: When each school finishes the screening process, the list of prospective graduates is forwarded to the Academic Affairs Operation Committee	$\Rightarrow$	<ul> <li>□ When: July/January</li> <li>□ The Academic Affairs         Operation Committee         confirms the list of         prospective graduates.</li> </ul>
Commencement			1	
☐ When: On Feb. or Aug.				

#### 4-3

#### Combined Master's-Doctoral Program Timeline

This chart displays the expected timeframe for completion of the major milestones in the program for the class entering in Spring 2023.



#### 5. Department and Major of Graduate Program for 2023 Spring

2023학년도 1학기 대학원과정 학과 및 세부전공

단과대학	학과(부)	세부전공
College	Department(School)	Major
	기계공학과 Dept. of Mechanical Engineering	기계공학 Mechanical Engineering
		환경과학공학 Environmental Science and Engineering
	_ 도시환경공학과 _	도시건설공학 Urban Infrastructure Engineering
	Dept. of Urban and Environmental Engineering	재난관리공학 Disaster Management Engineering
		물에너지융합 Water-Energy Nexus
	반도체 소재·부품 대학원 Graduate School of Semiconductor Materials and Devices Engineering	반도체소재부품공학 Semiconductor Materials and Devices Engineering
공과대학 College of Engineering	신소재공학과 Dept. of Materials Science and Engineering	신소재공학 Materials Science and Engineering
Engineering		에너지공학 Energy Engineering
	에너지화학공학과 School of Energy and Chemical Engineering	에너지공학(배터리과학및기술) Energy Engineering (Battery Science and Technology)
	Chemical Engineering	화학공학 Chemical Engineering
	원자력공학과 Dept. of Nuclear Engineering	원자력공학
	Dept. of Nuclear Engineering	Nuclear Engineering 탄소중립융합(에너지공학) Carbon Neutrality (Energy Engineering)
	탄소중립대학원 Graduate School of Carbon Neutrality	탄소중립융합(화학공학) Carbon Neutrality (Chemical Engineering) 탄소중립융합(환경)
	디자인학과	Carbon Neutrality (Environment) 디자인학
	Dept. of Design	Design
	산업공학과 Dept. of Industrial Engineering	산업공학 Industrial Engineering
	바이오메디컬공학과 Dept. of Biomedical Engineering	바이오메디컬공학 Biomedical Engineering
정보바이오	생명과학과 Dept. of Biological Sciences	생명과학 Biological Sciences
융합대학 College of Information and	인공지능대학원 Graduate School of Artificial Intelligence	인공지능학 Artificial Intelligence
Biotechnology	전기전자공학과 Dept. of Electrical Engineering	전기전자공학 Electrical Engineering
	컴퓨터공학과 Dept. of Computer Science and Engineering	컴퓨터공학 Computer Science and Engineering
	ICT 융합 석사프로그램	ICT융합
	Master Degree Program in Information & Communication Technology (ICT) Convergence	Information & Communication Technology (ICT) Convergence
	물리학과	물리학 Physics
자연과학 대학	Dept. of Physics	응용물리학 Applied Physics
College of Natural Sciences	수리과학과 Dept. of Mathematical Sciences	수리과학 Mathematical Sciences
	화학과 Dept. of Chemistry	화학 Chemistry
	경영과학부 School of Business Administration	경영과학 Management Engineering

#### 6. Degree Requirements by Department(School) and Major

학과(부) 및 전공별 학위수여요건

※ Due to revision of Regulations on the degree conferment, degree requirements by department and major may subject to change 학위수여규정 개정에 따라 학과별 졸업요건이 변경될 수 있음

# Department of Mechanical Engineering Major: Mechanical Engineering

Course	Master's	Doctoral	Combined Master's Doctoral
Credit	At least 28 (course credit: 18, research credit: 10)	At least 60 (course credit: 18, research credit: 42)	At least 60 (course credit: 30, research credit: 30)
Mandatory course	The Seminar: At least 2 credit, Master's Research: At least 8 credits	The Seminar: At least 2 credit, Doctoral Research: At least 12 credits	The Seminar: At least 3 credit, Doctoral Research: At least 21 credits
Publication	At least one conference presentation or a paper accepted for publication in an SCI or SCI-E journal as the first author is required.	At least one paper accepted for SCI-E journal as the first author	

#### \* One of the below should be submitted by the end of the third quarter of the semester for Nomination of Thesis Examining Committee.

#### Foreign Language Test

TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)
SCORE	800	80	213	550	5.5	309	IH	67	89	270

<sup>\*</sup> The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.

Note

Up to 6 credits of undergraduate(400-level) courses may be taken with the consent of thesis advisor and instructor, and be counted toward credit requirement.

For students who fail to meet the requirement for publication, the department committee of academic affairs can decide on their graduation after discussing.

<sup>\*</sup> The regulation related to TEPS score shall be applied to the tests from No. 248 TEPS(2018.05.12.). The tests before No. 248 TEPS(2018.05.12.) shall be subject to the previous school regulations (TEPS 640).

<sup>\*</sup> Additional measures for students who fail to meet publication requirement applies to all students in ME.

#### Department of Urban and Environmental Engineering

- Concentration
- ESE: Environmental Science and Engineering UIE: Urban Infrastructure Engineering
- DME: Disaster Management Engineering WEN: Water-Energy Nexus

		Maste	er's			Doct	oral		Coml	oined Mas	ter's Doctora	
		At least	t 28			At lea				At leas		
Credit		ourse cre			•	ourse ci			I	•	urse credit: 36,	
	res	search cr	redit: 4)		res	earch c	redit:	42)	r	esearch c	redit: 24)	
						Major		Do	octoral		Ms-Ph.D	
					Environmental Science			2		3		
						ironmen gineering			3		3	
					Wa	ter-Enero Nexus	ЭУ		3		3	
Publication		Not required Urban Infrastructure Engineering					1		1			
					Ма	Disaster nagemei gineering			ds to the	n apply ESE thesis consi earch field.	and UIE's and his/hei	
			* It can be accepted if the student is the 1st author or corresponding author being official UNIST's student. Also, the advisor of the student should be ascertain as a corresponding authoration and the student with advisor changing's achievement could be accept under committee's review									
	* Students are required to submit the official English test result by the third quarter of											
	Stade	its are i	equirea	to sub	mit the	official	Englisi	n test r	esult by 1	the third o	quarter of th	
							_		esult by t sis commi		quarter of th	
	semester	r they gi	raduate.	(At lea	ast before	they r	nomin	ate thes	sis commi	ttee)		
	semester	r they gi regulatio	raduate. n relate	(At lea	ast before TEPS sc	e they r ore sha	nomin all be	ate these	sis commi ed to the	ttee) e tests fi	rom No. 24	
	semester	r they go regulatio 18.05.12.)	raduate. n relate ). Tests	(At leaded to before	ast before TEPS sc	e they r ore sha	nomin all be	ate these	sis commi ed to the	ttee) e tests fi	quarter of the rom No. 24 the previo	
Foreign Language	semester * The I	r they go regulatio 18.05.12.)	raduate. n relate ). Tests	(At leaded to before	TEPS sc No. 248	e they r ore sha	nomin all be	ate these applied post. 12.) s	sis commi ed to the	ttee) e tests fi	rom No. 24	
U	semester * The I TEPS(201 school re	r they gi regulatio 18.05.12.) egulatior	raduate. In relate TOEFL	(At leaded to before 640).	TEPS sc No. 248	e they rore sha	nominall be	ate these applied post. 12.) s	sis commi ed to the shall be s	ttee) e tests fi subject to G-TELP	rom No. 24 the previo	
Language	* The II TEPS(201 school re  TEST  SCORE  * Native Australia	r they giregulation [8.05.12.) egulation TOEIC  800 e speaker, New Zitook are	raduate. In relate Tests TOEFL (IBT) 80 ers from Zealand,	(At leaded to before 640).  TOEFL (CBT)  213  m six Ireland	TEPS sc No. 248  TOEFL (PBT)  550  English-s	e they rore shall	TEPS  309  cougho su	opic opic IH	G-TELP (Level2)  67  (United Scertificate	ttee) e tests fi subject to  G-TELP (Level3)  89  States, Ca e that sta	the previo	

#### **Graduate School of Semiconductor Materials** and Devices Engineering

#### Major: Semiconductor Materials and Devices Engineering

Course		Maste	er's		Doctoral Combined Master's Doctora										
Credit		At leas ourse cre earch cr	edit: 18,			At leasourse crearch c	edit: 1			At leas (course cr research c	edit: 24				
Mandatory course	based Proce (SE51 Proce The S credit	0)Field Ed Semico essing 1)Semico essing an Seminar: ts (SE590 er's Rese 8 credit	onductor onductor d Device At least only) earch: At	e Lab	<ul> <li>The Seminar: At least 2 credits (SE590 only)</li> <li>Doctoral Research: At least 46 credits</li> <li>The Seminar: At least credits (SE590 only)</li> <li>Doctoral Research: At least 34 credits</li> </ul>										
TA		Not req	uired					(	Once						
Publication	At least one conference presentation or a paper accepted for publication in an SCI or SCI-E journal as the first author is required  At least one paper accepted for publication in an SCI or SCI-E journal as the first author									an SCI or					
Foreign Language	(1) Subn * The following Canada, students	nit Englist foreign I g scores the UK, with d during	sh Quali anguage specifie Austral ocumen their ur	fication e test s ed. Hov ia, Nev ts whic ndergra	vever, na v Zealand h certify duate or	ore accepte tive sp d, and that t	d as peakers lreland they w	from ) whosere ins	six count se native structed	tries (the language for all the	gher than the United States, is English or eir courses in recognized as				
Test	TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)				
	SCORE         800         80         213         550         5.5         309         IH         67								89	270					
	(2) Take SLA591 Writing in Academic Disciplines course or SLA590 Technical Writing in English (3 credits, this course will not be counted in course credit)										riting in				
Note	year. (In	Foreign Language Test requirement applies to all SE students regardless of their entrance year. (In the case of (2) above, it may not be possible to apply for the classes due to a lack of seats, so we recommend (1) if possible.)													

## Department of Materials Science and Engineering Maior: Materials Science and Engineering

	IV	iajor.	iviat	eriais	s Scie	nce	anu	EH	Jineer	mg			
Course		Maste	Master's Doctoral Combined Master's Doctoral										
Credit		At leas ourse cre earch cr	edit: 18,		(co res	st 60 redit: 24, redit: 36)							
Mandatory course	At (MS Re	The Sen least 2 E Semin esearch least 8	credits ar Only) Course:	),	The Seminar:  At least 3 credits  (MSE Seminar Only),  Research Course:  At least 45 credits  The Seminar:  At least 4 credits  (MSE Seminar Only),  Research Course:  At least 32 credits								
TA		Not req	uired		Once								
Publication	presenta author of for publ	tion as or a pap ication in as the fi	onference s a presenting aper accepted in an SCI(E) first author is								an SCI(E)		
Foreign Language	(1) Subn * The f following Canada, students	nit Englist foreign l g scores the UK, with d during	sh Quali anguage specifie Austral ocumen their ur	fication e test s ed. How lia, New ts whic ndergrad	vever, na v Zealand h certify duate or	ore accepte tive sp d, and that t	ed as peakers lreland they w	from l) who ere in	six count se native structed	ries (the language for all the	gher than the United States, is English or eir courses in recognized as		
Test	TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)		
	SCORE         800         80         213         550         5.5         309         IH         67         89         270								270				
	English):	3 credit	ts					se) or :	SLA590(Te	echnical W	riting in		
Note	Foreign year. (In the o	* This course will not be counted in course credit.  Foreign Language Test requirement applies to all MSE students regardless of their entrance year.  (In the case of (2) above, it may not be possible to apply for the classes due to a lack of seats, so we recommend (1) if possible.)											

#### [Interim Measures]

1) The TA requirement above can be applied retroactively to students who entered before 2020. For Korean students eligible for technical research personnel: The TA requirement must be completed before transferring to technical research personnel.

(Korean Students Only: 단, 전문연 편입 학생의 경우 편입 전 TA 요건을 반드시 완료해야 함.)

2) Master's students giving presentation for their graduation requirement should give a presentation as a main presenter

# School of Energy and Chemical Engineering Major: Energy Engineering, Energy Engineering (Battery Science and Technology)

	<i></i>	<u> </u>	<u> </u>					<i>337</i>			
Course	1	Master's		Do	ctoral	Com	bined Master	r's Doctoral			
Credit	(cours	least 28 se credit: 1! ch credit: 1		(course	east 60 credit: 15, credit: 45)		At least 60 (course credit: 24, research credit: 36)				
Mandatory course		e Seminar: ast 2 credit	s			The seminars least 3 cred					
Publication	No	Publish at least two international journals(SCI, 1st author)  ** THE approval of school graduate committee is required for the publication qualification									
TA		Students majoring in Energy Engineering must conduct 1 TA activity of any major course before graduation									
		of Thesis	Examining	bmitted by the Committee.	ne end of t	the third qua	irter of the s	semester for			
Eavoign	TOEIC	TOEFL (IBT)	IELTS	OPIC	TEPS (NEW)	G-TELP (Lv.2)	G-TELP (Lv.3)	TOEIC S&W			
Foreign Language	800	80	5.5	IH	309	67	89	270			
Test	following so Canada, the students w English du	800 80 5.5 IH 309 67 89 270  The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.									

# School of Energy and Chemical Engineering Major: Chemical Engineering

		Majo	or: Cr	1e	mical I	ngine	ering				
Course	I	Master's			Do	ctoral	Com	bined Master	's Doctoral		
Credit	(cours	nimum 28 se credit: 1! ch credit: 1			(course	num 60 credit: 12, credit: 48)		Minimum 60 (course credit: 21, research credit: 39)			
Mandatory course		e Seminar: um 1 credi	ts			-	he seminars imum 2 cred	•			
Publication	No	Not required  Publish at least two international journals(SCI, 1st author)  ** THE approval of school graduate committee is required for the publication qualification									
TA	Students course befo			ical	Engineerin	g must co	nduct 1 TA	activity of	any major		
	One of the Nomination  □ English t	of Thesis	Examinin			ne end of t	he third qua	arter of the s	emester for		
Foreign	TOEIC	TOEFL (IBT)	IELTS		OPIC	TEPS (NEW)	G-TELP (Lv.2)	G-TELP (Lv.3)	TOEIC S&W		
Language	800	80	5.5		IH	309	67	89	270		
Test	The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English of students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized a passing the foreign language test.										

# Department of Nuclear Engineering Major: Nuclear Engineering

Course	Master's	Doctoral	Combined Master's Doctoral				
Credit	At least 28 (course credit: 18, research credit: 10)	At least 60 (course credit: 24, research credit: 36)	At least 60 (course credit: 33, research credit: 27)				
Mandatory course	The Seminars: At least 1 credit	The Seminars: At least 1 credit					
Publication	Not required	Not re	equired				
Thesis Review	Not required	Submit a proposal to th	e advisor before defense				
Note	Mandatory courses are required for the course completion.	Mandatory courses are required for the course completion					

#### **Graduate School of Carbon Neutrality** Carbon Neutrality(Energy Engineering), Carbon Neutrality(Chemical Engineering), **Carbon Neutrality(Environment)**

Course	Master's	Combined Master's Doctoral	
Credit	At least 28 (course credit: 18, research credit: 10)	At least 60 (course credit: 15, research credit: 45)	At least 60 (course credit: 24, research credit: 36)
Mandatory course	1) The Seminar: At least 2 credits 2) Required Course : CNI510, CNI520	1) The Seminar: At least 2 credits 2) Required Course : CNI510, CNI520	1) The Seminar: At least 2 credits 2) Required Course : CNI510, CNI520
Publication	Not required	At least one paper publication author  * Being accepted is also acknowledges	-
Foreign Language Test		Not required	

### Department of Design

				Ma	jor: D	esig	n							
Course		Master	r's			Doctor	al		Combin	ed Master	's Doctoral			
Credit	At least 28 (course credit: 15, research credit: 13)				At least 60 (course credit: 12, research credit: 48)  At least 60 (course credit: 24, research credit: 36)									
Mandatory course*	- The Se - Master (MGP)		ition Pro	oject	- The Seminars - Doctoral Research									
	Choose (1	) or 2:												
Publication	Emotion, etc.	iraduation to a dor ternationary gs as the related K I, ICED, HCI, CI mission of the months of the m	n Project mestic jo al confer e 1st aut CI journa Design HI, TEI, of a de r Gradu internatio compet ase. ds, Red	OR urnal ence hor. als & DIS, esign ation anally tition	At least two doctoral research-related papers published Accepted) in the following as the 1st author:  ① One journal publication listed in L1 OR indexed in SCIE, A&HCI and SSCI OR Top 5 in Google Scholar Ranking venues (journal or conference in any category). ② One international journal OR international conference proceedings not listed in L1. The final decision regarding the submitted publications' ability to meet the requirements stated above shall be made by the doctoral committee*.									
	Nomination  * The reg	on of The Julation re	esis Exam elated to	ining C	Committee. score shall	be appl	ied to t	he test	s from No	. 248 TEPS(	emester for 2018.05.12.). ations (TEPS			
Foreign	TEST	TOEIC	TOEFL (IBT)	TOEF (CBT)		IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)			
Language Test	SCORE	800	80	213	550	5.5	309	IH	67	89	270			
	following States, C English c courses	scores Canada, or stude in Engl	specifi the UK, nts with ish dur	ied. H Austr docu ing th	shall be accepted as passed if the score is higher than the However, native speakers from six countries (the United stralia, New Zealand, and Ireland) whose native language in bounders which certify that they were instructed for all their their undergraduate or higher degree programs shall be oreign language test.									
Note	In exceptional cases that must be accepted by the doctoral committee, any evidence of professional research quality related to his/her doctoral research such as awards, intellectual property and invited exhibition may be considered an equivalent to a publication in an international journal OR conference proceedings not listed in L1.													

As some of the mandatory courses have been abolished and changed that they are no longer to take as required courses, and it is adapted to Design and CDE Graduate school students who've entered before 2021. - Changed: (DES701) Research Methodology  $\rightarrow$  (DES701) Design for Wellbeing

- Closed: (DES705) Research Issues in Design  $\rightarrow$  X

#### **Department of Industrial Engineering** Major: Industrial Engineering

Course	Master's	Doctoral	Combined Master's Doctoral					
Credit	At least 28 (course credit: 21, research credit: 7)	At least 60 (course credit: 15, research credit: 15)	At least 60 (course credit: 24, research credit: 21)					
Mandatory course	Master's Research: At least 7credits.	Doctoral Research: At least 15 credits.	Doctoral Research: At least 21 credits.					
Publication	-	No publication requirement						
*	* One of the below should be submitted by the end of the third quarter of the semester							

- for Nomination of Thesis Examining Committee.
- \* The regulation related to TEPS score shall be applied to the tests from No. 248 TEPS(2018.05.12.). The tests before No. 248 TEPS(2018.05.12.) shall be subject to the previous school regulations (TEPS 640).

#### Foreign Language Test

TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)
SCORE	800	80	213	550	5.5	309	IH	67	89	270

The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.

The amended mandatory course credits and QE requirements apply to MS, Doctoral Program and Combined Master's-Doctoral Program students who entered in the 1st semester of 2019 and thereafter, and also retrospectively to students who entered in the 1st and 2nd semester of 2018.

### Department of Biomedical Engineering Major: Biomedical Engineering

Major. Bioinedical Engineering											
Course	Master's	Doctoral	Combined Master's Doctoral								
Credit	At least 28 credits in total (minimum course credits: 15, research credits: 4)	At least 60 credits in total (minimum course credits: 12, research credits: 14)	At least 60 credits in total (minimum course credits: 21, research credits: 18)								
Mandatory course	The department seminar: At least 2 credits	The department seminar: At least 3 credits	The demartment seminar: At least 3 credits								
Publication	Not required	At least 2 doctoral study-related papers published or accepted for publication in SCI (or equivalent) journals as the first author or Co-author (At least 1 paper must be accepted/published as the first author)									
Preliminary defense	Not required	At least 1 year before the final defense. At least 3 thesis committee members are required to be present.  The preliminary defense must be completed within 10 semesters for the Doctoral program and within 12 semesters for the combined MS-Ph.D. program.									
Q.E & Research proposal	Not required	Within 2 years after the enrollment.  There are 2 options for Q.E.  Submit a research proposal to the academic affairs team after being qualified for Q.E.									

#### **Department of Biological Sciences** Major: Biological Sciences

			iviajo	JI. E	ololog	icai	SCIE	HICE	5					
Course		Maste	er's			Doct	oral		Com	bined Mas	ter's Doctora			
Credit	1 .	At least 28 (course credit: at least 21, research credit: at least 7)			(course researc	At lease credits	at lea		,	At least 60 (course credit: at least 30 research credit: at least 2				
Mandatory course	The Seminar: At least 2 credits					The Se least 3		ts		The Ser At least 3				
Pre-defense Meeting	Not required				<ul> <li>The thesis committee should hold at least one progress/pre-defense meeting and submit the meeting report &gt;six months before the final thesis defense.</li> <li>It will be effective for new graduate students in 2022 and afterward.</li> </ul>									
TA		Onc	e		<ul> <li>Theory course(2) or Laboratory course(1)</li> <li>Laboratory TA will be assigned by the graduate affairs committee.</li> <li>It will be effective for all current and future graduate students.</li> </ul>									
Publication	Not required				<ul><li> These co-firs</li><li> The co-candic</li><li> Review</li></ul>	include t autho orrespor late's th papers be effe	resear ors. nding onesis ac nesis ac	rch par or co-c dvisor. not cor	pers cont orrespon	ributed eq	or should be			
* One of the below should be submitted by the end of the third quarter of the semest for Nomination of Thesis Examining Committee.  * The regulation related to TEPS score shall be applied to the tests from No. 24 TEPS(2018.05.12.). The tests before No. 248 TEPS(2018.05.12.) shall be subject to the previous school regulations (TEPS 640).														
Foreign Language	TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)			
Test	SCORE	800	80	213	550	5.5	309	IH	67	89	270			

TEST	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)
SCORE	800	80	213	550	5.5	309	IH	67	89	270

The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.

### Graduate School of Artificial Intelligence

		N	/lajor	: Aı	rtificial	Int	ellig	enc	е			
Course		Maste	er's			Docto	oral		Co	Combined Master's Doctoral		
Credit*		At least ourse cre earch cr	edit: 21,		At least 60 (course credit: 15, research credit: 45)					At least course cre search cre	edit: 30,	
Mandatory course	– Maste At lea	eminar: ist 1 cred r's Resea ist 6 cre Al501, A	arch: dits	1503	<ul> <li>The Seminar:</li> <li>At least 1 credit</li> <li>Doctoral Research:</li> <li>At least 44 credits</li> <li>Core: Al501, Al502, Al503</li> </ul>				At le	<ul> <li>The Seminar:</li> <li>At least 2 credit</li> <li>Doctoral Research:</li> <li>At least 28 credits</li> <li>Core: Al501, Al502, Al503</li> </ul>		
TA		once	9			Three 1	times			Three t	imes	
Academic Excellence or real-world impact	Not required				<ul> <li>Option1:         At least one first-authored paper in a premium venue (e.g., an international SCI/SCI-E journal or conference listed in the top conference list officially approved by UNIST AIGS)</li></ul>							
	Students (1) Subr	must c nit Engli:	omplete sh Quali	one of	of below requirements n Test Score							
	TEST	TOEIC	TOEFL (IBT)	TOEF (CBT)		IELTS	TEPS	OPIC	G-TELP (Level2)	G-TELP (Level3)	TOEIC (Speaking& Writing)	
Foreign	SCORE	800	80	213	550	5.5	309	IH	67	89	270	
Language Test	The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.  (2) Take AI500 Technical Writing in English course (this course will not be counted as course credit)											
Note		Research credit - Research credit = Seminar + Ph.D. research - Accepted for publication										
Students can     credits incli		•		,		credits	s from	other	departme	nts to the	ir lecture	

### Department of Electrical Engineering Major: Electrical Engineering

	<u> </u>						
Course	Master's	Doctoral	Combined Master's Doctoral				
Credit	At least 28 (course credit: 21, research credit: 7)	At least 60 (course credit: 18, research credit: 42)	At least 60 (course credit: 33, research credit: 27)				
Mandatory course	The Seminar: At least 1 credit, Master's Research: At least 6 credits	The Seminar: At least 2 credit, Doctoral Research: At least 40 credits	The Seminar: At least 3 credit, Doctoral Research: At least 21 credits				
Publication	NOT required	At least one first-authored paper (related to the doctoral research topic) in a premium venue :an international SCI/SCI-E journal or conference listed in the top conference list officially approved by UNIST EE/CSE)					
Note	Research credit = Seminar + MS research	Accepted for publication, Research credit = seminar + PhD research					

Graduate students are obliged to fulfill TA duty every semester.

#### [Interim Measures]

- (국문) 기존 일반대학원 '전기및전자공학과'로 입학한 학생들의 경우 종전의 '전기및전자공학과'의 연도별 이수요 건을 따른다.
- (영문) These guidelines are applicable to the students who entered the graduate program from 2020 fall.

### Department of Computer Science and Engineering Major: Computer Science and Engineering

IN.	hajor: Computer	Major: Computer Science and Engineering										
Course	Master's	Doctoral	Combined Master's Doctoral									
Credit	At least 28 (course credit: 18, research credit: 7)	At least 60 (course credit: 15, research credit: 42)	At least 60 (course credit: 30, research credit: 24)									
Mandatory course	The Seminar: At least 1 credit Master's Research: At least 6 credits	The Seminar: At least 2 credit Doctoral Research: At least 40 credits	<ul> <li>The Seminar:     At least 3 credit</li> <li>Doctoral Research:     At least 21 credits</li> </ul>									
Publication	NOT required	At least one first-authored paper (related to the doctoral research topic) in a premium venue (e.g. an international SCI/SCI-E journal or conference listed in the top conference list officially approved by UNIST CSE)										
Note	<ul> <li>English test score should be submitted before the defense.</li> <li>Research credit = Seminar + MS research</li> </ul>	<ul> <li>English test score should be submitted before the defense.</li> <li>Accepted for publication</li> <li>Research credit = seminar + Ph.D. research</li> </ul>										
		Students must complete one of below requirements  (1) Submit English Qualification Test Score										

TOEIC	TOEFL (IBT)	IELTS	OPIC	TEPS	G-TELP (Lv.2)	G-TELP (Lv.3)	TOEIC S&W
800	80	5.5	IH	309	67	89	270

#### Foreign Language Test

The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.

- (2) Take SLA590 Technical Writing in English course (This course will not be counted as course credit)
- \* Students who have entered in 2022 and after can take SLA590 Technical Writing in English instead of submitting a certified English test score.

#### [Interim Measure]

(국문) 기존 일반대학원 '컴퓨터공학과'로 입학한 학생들의 경우 종전의 연도별 '컴퓨터공학과' 이수요건을 따른다. (영문) These guidelines are applicable to the students who entered the graduate program from 2020 fall. [Interim Measure]

(국문) 기존 일반대학원 '컴퓨터공학과'로 입학한 학생들의 경우 종전의 연도별 '컴퓨터공학과' 이수요건을 따른다. (영문) These guidelines are applicable to the students who entered the graduate program from 2020 fall.

# Master Degree Program in Information & Communication Technology (ICT) Convergence

### Major: Information & Communication Technology (ICT) Convergence

Course	Master's					
Credit	At least 30 (course credits: 18, research credits: 12)					
Mandatory course	research credit = MS research + research project					
Publication	NOT required					
Note						

#### [Notes regarding courses]

Only these courses listed below provide both real-time online lecture and recorded lecture for the students in Master Degree Program in ICT Convergence and they are operated with 2 session lectures.

\* Besides these listed courses, students can take other graduate courses in general school.

Code	Course Title
EE578	고급 반도체소자 공학
EE556	안테나공학
AI512	강화학습
EE738	고급무선 통신 이론
미정	전기전자공학과 토픽 (디스플레이 공학 특론)
미정	전기전자공학과 토픽 (전자장 특론)
EE772	나노전자소자
EE635~639	전자회로설계 및 응용특수토픽 (Power Management IC)
EE559	무선 IC 디자인
AI503	AI 툴킷

### Department of Physics Major: Physics

				iviajo	r: Phy	SICS						
Course		Master's	S		Doctoral				Combined Master's Doctoral			
Credit	Cou	At least urse Credi earch Cre	its: 21		At least 60 Course Credits: at least 12 Research Credits: at least 34				At least 60 Course Credits: at least 27 Research Credits: at least 28			
Mandatory course	At	Seminal least 1 d	•		Seminar At least 1 credit				Seminar least 1 cr			
Publication	1	in h (It s ※ T	Publish at least one paper as the first/corresponding author in high-impact international journals. (It should be at least accepted for publication.)  X The approval of the Department Graduate Committee is required for the publication qualification.									
	[Required course] SLA590 Technical Writing in English (This course will be counted as course credit.) *If students submit English Qualification Test, course taking will be exempted. **This requirement shall be applied to students entered in 2022 and after.											
Foreign	TOEIC	TOEFL (IBT)	TOEFL (CBT)	TOEFL (PBT)	IELTS	OPIC	TEPS	G-TELP (Level 2)	G-TELP (Level 3)	TOEIC (S&W)		
Language Test	800	80	213	550	5.5	IH	309	67	89	270		
	The foreign language test shall be accepted as passed if the score is higher than the following scores specified. However, native speakers from six countries (the United States, Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English or students with documents which certify that they were instructed for all their courses in English during their undergraduate or higher degree programs shall be recognized as passing the foreign language test.											

# Department of Physics Major: Applied Physics

			iviajo	or: A	pplied	Pny	SICS				
Course		Master's	s		Do	octoral		Combined Master's Doctoral			
Credit	At least 28 Course Credits: 15 Research Credits: 8				At least 60 Course Credits: at least 12 Research Credits: at least 35			At least 60 Course Credits: at least 21 Research Credits: at least 34			
Mandatory course	Seminar At least 2 credits				Seminar At least 2 credits			Seminar At least 4 credits			
Publication	Not required			auth (It s ※ T	Publish at least two papers as the first/corresponding author in high-impact international journals. (It should be at least accepted for publication.)  X The approval of the Department Graduate Committee is required for the publication qualification.						
	[Required course] SLA590 Technical Writing in English (This course will be counted as course credit.) *If students submit English Qualification Test, course taking will be exempted. **This requirement shall be applied to students entered in 2022 and after.  TOEIC TOEFL				TOEIC (S&W)						
Foreign Language Test	800	(IBT) 80	(CBT) 213	( <b>PBT</b> ) 550	5.5	IH	309	(Level 2) 67	( <b>Level 3</b> )	270	
	The foreign language test shall be accepted as passed if the score is higher that following scores specified. However, native speakers from six countries (the United Canada, the UK, Australia, New Zealand, and Ireland) whose native language is English students with documents which certify that they were instructed for all their cour English during their undergraduate or higher degree programs shall be recognize passing the foreign language test.					ted States, English or courses in					
Note											

### Department of Mathematical Sciences Major: Mathematical Sciences

Course	Master's	Doctoral	Combined Master's Doctoral			
Credit	At least 28	At least 60	At least 60			
	(Course Credits:	(Course Credits:	(Course Credits:			
	at least 15,	at least 15,	at least 27,			
	Research Credits:	Research Credits:	Research Credits:			
	at least 6)	at least 15)	at least 21)			
Mandatory course	Seminar:	Seminar:	Seminar:			
	At least 1 credit	At least 1 credit	At least 1 credit			
Publication	Not required	At least one paper must be accepted for publication in SSCI-E or SSCI journals as the first or corresponding author (It is also possible to be exempted from Publication in SSCI or SCI-E or, SSCI journals upon approval by the Department's Graduate Committee.)  X applied to all admitted students				

### Department of Chemistry Major: Chemistry

Major: Chemistry											
Course	Master's			Doctor	al		(	Combined Master's Doctoral			
Credit	At least 28 Course Credits: 15 Research Credits: 13	At least 60 Course Credits: at least 12 Research Credits: at least 20			1	At least 60 Course Credits: at least 21 Research Credits: at least 33					
Mandatory course	Seminar At least 2 credits	Seminar At least 2 credits				Seminar At least 4 credits					
Publication	Not required	Publish at least one paper in an international journal as the first author.  ** Qualification of publications under this requirement is subject to approval by the Department Graduate committee.									
Foreign Language Test	Not required	800 The fo is high speake Austral English instructor high foreign (2) Tak counter	rounit E  TOEFL (IBT)  80  reign her that the control of the contr	TOEFL (CBT)  213  languaren the masix con y Zeal udents rall the gree puage to was all the green puage to was al	Qualific  TOEFL (PBT)  550  ge test following countries and, are with concerned regramment.	shall mg sco es (the end Ireladocume urses in shall	OPIC  IH be accores speciand) wents what English be reining in	309 epted ecified. d State hose rhich cesh dur cogniz	as passe Howevers, Canado native la ertify the ing their red as p	er, nativ da, the nguage at they r underg assing t	e UK, is were graduate he vill be
		(3) Take SLA590 Technical Writing in English (This course will be counted as course credit.)					ll be				

# School of Business Administration Major: Management Engineering

Course	Master's	Doctoral	Combined Master's Doctoral	
Credit	At least 28	At least 60	At least 60	
Mandatory course	At least course credit: 15, research credit: 4	At least course credit: 12, research credit: 14	At least course credit: 21, research credit: 18	
Publication		At least one paper accepted for SCI-E journal as the first or the student's dissertation advis corresponding or first author.  ** The condition that the studneeds to be the corresponding relieved with the concent from Affairs Committee.  ** This rule applies to students semester of 2021 or later.	corresponding author. Also, or needs to be the ent's dissertation advisor or first author can be the department Graduate	

<sup>-</sup> The above rule for credits applies to students admitted in or after 2021.

# 6. Q.E. Guidelines by Department(School) and major 학과(부) 및 전공별 박사자격시험 지침

#### Department of Mechanical Engineering Major: Mechanical Engineering

When	May, November (In the w	veek of the third quarter of each semester)				
imes per Year	Twice per year					
Criteria	A. Written B. Coursework					
	A. Written  Choose 3 out of 9 subje  Engineering Math Thermodynamics  Mechanics of Ma Dynamics (DYN) Bio&MEMs (BM)  Committees for each sul	(MTH)   Fluid Mechanics (F  (THD)   Heat Transfer (HT)	G)			
	B. Coursework A score of A0 or higher	r in the listed substitution subject can be acom.	members.			
Subjects	B. Coursework	r in the listed substitution subject can be acc	members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa	m.  MEN502 Advanced Mechanical Engineering Analysis MEN7XX Special Topics (Advanced	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)	m.  MEN502 Advanced Mechanical Engineering Analysis  MEN7XX Special Topics (Advanced Mathematics)*	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD) Mechanics of Materials	m.  MEN502 Advanced Mechanical Engineering Analysis MEN7XX Special Topics (Advanced Mathematics)*  MEN510 Advanced Thermodynamics	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD)  Mechanics of Materials (MM)	m.  MEN502 Advanced Mechanical Engineering Analysis MEN7XX Special Topics (Advanced Mathematics)* MEN510 Advanced Thermodynamics MEN530 Advanced Solid Mechanics	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD) Mechanics of Materials (MM) Dynamics (DYN)	m.  MEN502 Advanced Mechanical Engineering Analysis MEN7XX Special Topics (Advanced Mathematics)* MEN510 Advanced Thermodynamics MEN530 Advanced Solid Mechanics MEN570 Advanced Dynamics	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD) Mechanics of Materials (MM)  Dynamics (DYN)  Fluid Mechanics (FLM)	r in the listed substitution subject can be acom.  MEN502 Advanced Mechanical Engineering Analysis  MEN7XX Special Topics (Advanced Mathematics)*  MEN510 Advanced Thermodynamics  MEN530 Advanced Solid Mechanics  MEN570 Advanced Dynamics  MEN570 Advanced Fluid Mechanics	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD) Mechanics of Materials (MM) Dynamics (DYN) Fluid Mechanics (FLM) Heat Transfer (HT)	m.  MEN502 Advanced Mechanical Engineering Analysis  MEN7XX Special Topics (Advanced Mathematics)*  MEN510 Advanced Thermodynamics  MEN530 Advanced Solid Mechanics  MEN570 Advanced Dynamics  MEN520 Advanced Fluid Mechanics  MEN511 Advanced Heat Transfer	y members.			
Subjects	B. Coursework A score of A0 or higher taking the qualifying exa  Engineering Math (MTH)  Thermodynamics (THD) Mechanics of Materials (MM)  Dynamics (DYN) Fluid Mechanics (FLM) Heat Transfer (HT) Manufacturing (MFG)	r in the listed substitution subject can be accomm.  MEN502 Advanced Mechanical Engineering Analysis MEN7XX Special Topics (Advanced Mathematics)* MEN510 Advanced Thermodynamics MEN530 Advanced Solid Mechanics MEN570 Advanced Dynamics MEN570 Advanced Fluid Mechanics MEN520 Advanced Fluid Mechanics MEN511 Advanced Heat Transfer MEN552 Manufacturing Processes and Systems	y members.			

### Department of Mechanical Engineering Major: Mechanical Engineering

	Major: Mechanical Engineering
	* In case of a special topics course it will be accepted depending on the subtitle. MEN795 Special Topics V (Advanced Mathematics) opened in 2019-1 can be accepted according to the subtitle of the course.
Required Time	A. Written 2 hours for each subject area
Passing Standard	Knowledge and understanding of each subject is graded on pass/fail basis.  Students must pass 3 subjects from the exam areas.
Measures on Unsuccessful Students	The student may take one more examination if he/she fails in the first examination. Students not passing the Ph.D. Q.E. at the first sitting may be allowed to take the examination one more time for the one or more area exams that were failed (as long as the students are within the allowed duration). In retaking the qualifying exam, students may choose to be tested in a different area, in which case only one chance is allowed. If the student fails again after retaking the exam, the final pass or fail decision will be made by evaluating student's overall research performance in the Q.E. committee meeting.
Appealing Period	One week from the result notification.  * During the period above, you can make an objection to your result by submitting the related document. If you're justified, correction can be made by Q.E. committees.
Standard for Application	Students must be registered for the semester in which they take the Ph.D. Q.E. and have full graduate standing. Students must pass the Ph.D. Q.E. within the 6 <sup>th</sup> semester after enrolling in the Ph.D. or M.S-Ph.D. program.
Note	The guideline applies to all Ph.D. and M.SPh.D. students.

### Department of Urban and Environmental Engineering

- Concentration
- ESE: Environmental Science and Engineering UIE: Urban Infrastructure Engineering
- DME: Disaster Management Engineering WEN: Water-Energy Nexus

When	June / December
Times per Year	Two times / year
Q.E. Committee	<ul> <li>Q.E. committee members should be comprised of two or more professors (Academic advisor and professor(s) who taught the Q.E. subjects)</li> <li>Other professors may be added if necessary</li> </ul>
Q.E. Subjects	<ul> <li>Students must choose three subjects* from the courses they took during the graduate program.</li> <li>* Only subjects with confirmed grades are available</li> <li>All Q.E. subjects should be approved by Q.E. committee</li> <li>Undergraduate subjects taken during the graduate program are available</li> <li>Students can apply for up to two subjects taught by the same professor</li> </ul>
Pass criterion	Students must score 70 or higher(out of 100) in each subject to pass
Q.E. Application	<ul> <li>Students are allowed to apply for Q.E. after completing two semesters. (After two semesters' grades are confirmed)</li> <li>Students are allowed to apply for Q.E. two times in total. (If they fail the second Q.E., the qualification for the doctorate is lost)</li> </ul>
Note	<ul> <li>Test type(Written or Oral) and time are determined by the Q.E. committee</li> <li>Both 'Ph.D' and 'Combined Master's &amp; Ph.D' students have to PASS the Q.E within 6 semesters of admission</li> <li>This guideline is effective since 10<sup>th</sup> October 2015 and it applies to all Ph.D. and Combined Master's and Ph.D. program students students who entered from 2015.</li> </ul>

### **Graduate School of Semiconductor Materials** and Devices Engineering

### Major: Semiconductor Materials and Devices Engineering

When	Qualifying exam can be taken twice a year, once per semester.(Spring and Fall.)
Criteria	Oral Examination
Cubicata	• The committee consists of three professors including the student's academic advisor, who is the committee chair, and two other decided by the graduate school committee of our department/school. The academic advisor can suggest committee candidates. At least two of three committee professors should be the core members from the graduate school of semiconductor materials and devices engineering.
Subjects	• The students must turn in the examination materials to all committee professors at least 1 week prior to the examination date. Otherwise the student will be considered to have failed in the examination.
	• The presentation should focus mainly on the student's research background and the subsequent questions from the committed should be answered properly. The committee will make a decision right after discussion in the examination.
Required Time	Presentation and Oral Examination : 60min.
Passing Standard	Knowledge and understanding of major subjects for the Ph.D. research (60points), presentation ability and attitude (10 points) and presentation contents (30 points)
Measures on Unsuccessful Students	The student must earn at least 60 points from each committee professor to pass the examination. The student may take one more examination if he/she fails in the first examination. However, the student cannot take QE twice within one semester.
Standard for Application	Students must pass the Ph.D. qualifying exam within 6th semester after enrolling in the Ph.D./M.S-Ph.D. course.
Note	

# Department of Materials Science and Engineering Major: Materials Science and Engineering

	Major. Materials Science and Engineering
When	Qualifying exam can be taken twice a year, once per semester(Spring and Fall).
Criteria	Oral Examination
Subjects	. The committee consists of three professors including the student's academic advisor, who is committee chair, and two other decided by the graduate school committee of our department/school. The academic advisor can suggest committee candidates.  . The students must turn in the examination materials to all committee professors at least 1 week prior to the examination date. Otherwise the student will be considered to have failed in the examination.  . The presentation should focus mainly on the student's research background and the subsequent questions from the committed should be answered properly. The committee will make a decision right after discussion in the examination.
Required Time	Presentation and Oral Examination: 60min
Passing Standard	Knowledge and understanding of major subjects for the Ph. D. research(60 points), presentation ability and attitude(10 points) and presentation contents(30 points)
Measures on Unsuccessful Students	The student must earn at least 60 points from each committee professor to pass the examination. The student may take one more examination if he/she fails in the first examination. However, the student cannot take QE twice within one semester.
Standard for Application	Students must pass the Ph. D. Q.E. within 6th semester after enrolling in the Ph. D./M.S-Ph. D. course
Note	

### School of Energy and Chemical Engineering

### Major: Energy Engineering, Energy Engineering(Battery Science

	and Technology), Chemical Engineering
Period	The Qualifying Exam (Q.E) is twice a year, normally in June and December (It can be rescheduled if needed)
Oral Test (2019~)	<ol> <li>Subject: Students who entered 2019 and onwards</li> <li>Deadline: Students must take Q.E within 2 years (4th semester) from their admission</li> <li>Format: Oral Q.E. can be conducted with the format of pre-defense.         <ul> <li>* Oral Q.E. will substitute the Pre-Defense</li> </ul> </li> <li>Exam time: Presentation of research plan (15-20 minutes) and Q&amp;A (30 minutes)</li> <li>Result         <ul> <li>a) Pass 1) the average of 3 committee members' score is over 70 (including 70), and</li> <li>c) No "F" among 3 evaluation categories</li> </ul> </li> <li>Those who failed to pass the 1st Oral Q.E. are required to take another Q.E. on their 5th Semester. Failure of the 2nd Q.E. will lead to Master's graduation or completion of Doctoral Courses (Degree will not be conferred)</li> <li>Composition of committee members         <ul> <li>a) 1st Q.E: 3 members excluding the academic advisor</li> <li>b) 2nd Q.E: 4 members including the academic advisor</li> <li>* The composition of committee members should be discussed between the applicant and the academic advisor</li> </ul> </li> </ol>
Evaluation of Oral Q.E.	<ul> <li>A. Basic knowledge of Research (30%)</li> <li>1) Does the student fully understand the scientific background and relevant disciplines of the research area(s)?</li> <li>2) In the specific research topic, does the student understand the importance of the work on the aspects of science and practical applications?  Does the student understand domestic and international trends of the topic, in the past, present and future?  Does the student follow and understand the efforts of major competitors?</li> <li>B. Research goal and contents, ability to conduct research (40%)</li> <li>1) Did the student properly establish and clearly suggest the objectives and scope of the research?  (Objectives and scope-based on proper hypotheses?; Scope- sufficient to achieve the goals?; Risk and/or limit of established goals/scope - manageable?)</li> <li>2) Does the student fully understand the methodologies and skills essential to carry out the research work?</li> <li>3) Does the main idea(s) of the proposal include student's own input and show his/her creativity, in addition to the ones from his/her advisor(s)?</li> <li>4) Does the student have a strategic plan to efficiently conduct the research, such as collaboration and use of important resources, inside as well as outside the UNIST campus?</li> <li>3. Presentation Skill (30%)</li> <li>1) Is the presentation material well-prepared?</li> </ul>

	(Good at the preparation of presentation material?)  2) Does the student deliver the proposal logically and clearly? (Presentation ability and skills in English?)  3) Does the student clearly understand and properly answer the questions raised by committee members?
Miscellaneous	<ul> <li>** These Guidelines are effective from the 2023 Spring semester.</li> <li>** Research proposal</li> <li>- Students who entered before 2019 should submit the research proposal 1 year prior to the expected dissertation defense. After passing the Q.E. and submitting the research proposal, the proposal defense must be completed at least 6 months before the dissertation defense</li> <li>- Students who entered after 2019 should submit the research proposal within 2 years of the entrance.</li> <li>* Research proposals are only accepted as official documents during the application term of each semester defense.</li> </ul>
Note	The rules apply to all 3 majors in the school of Energy and Chemical Engineering

### **Department of Nuclear Engineering**

#### Major: Nuclear Engineering When May, November (In the week of the third quarter of each semester) Times per Year Twice per year Criteria Written Choose 3 out of 10 subjects: ✓ Nuclear Reactor Theory ✓ Nuclear Thermal Hydraulics ✓ Radiation Science ✓ Probability ✓ Nuclear safety ✓ Nuclear Fuel and Fuel Cycle Subjects Nuclear Materials Engineering ✔ Probabilistic Safety Assessment ✔ Magnetohydrodynamics ✔ Nuclear Fusion ✓ Medical Imaging & AI **Required Time** 4 hours for written (1 hour-ish per each subject) Average over 60% for pass; if any of the subject score is less than 40%, then fail. **Passing** Standard For the subject which is taken second will be considered as final score for total. Measures on Students can retake Q.E. until they pass. Unsuccessful \* In case of a retake, there is no restriction on the choice of subject. **Students** One week from the result notification. **Appealing** \* During the period above, you can make an objection to your result If you're **Period** justified, correction can be made by Q.E. committees. Doctoral Program/Combined Master's-Doctoral Program: Standard for Students must pass the Ph.D Q.E. within 6 semesters after enrolling in the **Application** Ph.D/M.S-Ph.D Course. Required Application form for Q.E. with selection of subjects. **Documents**

Note

### Graduate School of Carbon Neutrality Carbon Neutrality(Energy Engineering), Carbon Neutrality(Chemical Engineering), Carbon Neutrality(Environment)

When	Qualifying exam (QE) can be taken twice a year, once per semester(Spring and Fall).  Specific date may be determined by the applicant and his/her QE committee. Deadline of the Qualifying exam will be the last date of each semester.  Students are recommended to take the first QE on their 4 <sup>th</sup> semester.
Criteria	Presentation and Oral Examination
Subjects	The presentation should focus mainly on the student's research background and the subsequent questions from the committee should be answered properly.
Required Time	15 minutes of presentation + 30 minutes of Q&A
Passing Standard	Above 70 out of 100 (including 70) - Basic knowledge and understanding (50) + Presentation Contents (30) + Presentation ability and attitude (20)
Measures on Unsuccessful Students	Those who failed the first QE are allowed to take 1 more QE (Students cannot take QE twice within 1 semester).
Standard for Application	Both Ph.D and MS-Ph.D students must pass the QE within their 6th semester.
Note	This guidelines are effective from spring semester of 2023.

# Department of Design Major: Design

When	June / December
Times per Year	Twice per year
Criteria	<ul> <li>Oral exam</li> <li>Determined by 3 faculties of Design (preferable faculty for Q.E. can be recommended by each applicant and his/her supervisor).</li> </ul>
Туре	Option ① Review of course material to demonstrate advanced knowledge Option ② In-depth literature review covering 4-8 articles from chosen research topic to demonstrate knowledge of research specialization Option ③ Research project, including motivations, research questions, methods, outcomes and discussion
Time	30 minutes presentation with Q&A of up to one hour
Measures on Unsuccessful Students	<ul> <li>Applicants who do not qualify for exemption and fail the first oral exam must pass the oral at the second attempt.</li> <li>An applicant who fails the oral exam for the second time are not allowed to continue in the Ph.D. program.</li> </ul>
Standard for Application	<ul> <li>Each applicant must have earned at least 12 course credits from his/her concentration area before applying for the Q.E.</li> <li>Each applicant should submit a Q.E. application form to the department by May 1st (for June Q.E.) or Nov 1st (for December Q.E.).</li> <li>Students must pass the Q.E. within 3 years after enrolling in the Ph.D. program.</li> </ul>
Exemption	Exemption will be granted if a student has completed three Design Department courses with A0 (or better) and maintained an overall GPA of 3.7 or better in their graduate studies.

<sup>\*</sup> This guideline will also be adapted to the students who've entered before 2022.

# Department of Biomedical Engineering Major: Biomedical Engineering

When	June, December
	June, December
Times per Year	Twice per year
Criteria	Oral exam
Subjects	The student determines one of the two exam options under the advisor's supervision;  Option #1: Presentation of an in-depth literature review of 4 to 8 articles in a relevant research topic to demonstrate the expertise and the research capability. The articles chosen should be approved by the advisor. The presentation should include the student's research proposal for the doctoral study based on the literature review.  Option #2: Presentation of a past or current research work that the applicant has conducted during his/her graduate program. The presentation should include the student's research proposal for the doctoral study based on the past or current project.
Required Time	30-minute presentation + up to 1 hour of Q/A
Passing Standard	Determined by 3 faculty members of BME who are nominated by BME Graduate Study Committee (preferable thesis committee members for Q.E. can be recommended by each applicant).  Students are required to pass the Q.E. within 2 years after the enrollment.
Note	An applicant who fails the oral exam within 2 years after the enrollment is not allowed to continue in the Ph.D. or M.S-Ph.D. program. However, if the applicant has fulfilled the requirement obtaining for a M.S. degree, she/he can leave the program after receiving an M.S. degree once they complete a M.S. thesis defense within 5 semesters after the enrollment.

### **Department of Industrial Engineering**

#### Major: Industrial Engineering When June, December Times per Year Twice a year 1. The student should specify a faculty member affiliated with Department of Industrial Engineering (IE) as his/her dissertation advisor with the agreement from the faculty member. 2. Qualifying Examination (QE) is administered by the IE QE committee. 3. QE committee is composed of at least three members including the student's dissertation advisor, affiliated with UNIST. QE committee may have additional committee member(s) outside UNIST with the consent of the student and her/his dissertation advisor. All the members of the QE committee are appointed by the Dean of IE. 1) Document evaluation ○ Academic achievement in MS □ GPA O Dissertation proposal plan ☐ Form: (1) Title (2) Background (Introduction) (3) Objectives (Goals) (4) Research How Time Plan (5) Work performed (6) Future work (7) References ☐ The plan should be written in English within 5 pages. Other research ability ☐ The number of publications, ongoing work, etc. 2) Paper presentation O The student will give a presentation on a paper. ☐ A list of papers will be selected and announced by the QE committee at least two weeks in advance. ☐ The papers selected were published in major journals related to Industrial Engineering (see Subjects). ☐ The student selects one of the papers (or both) and review it (them). ☐ The student is encouraged to reproduce and transform experiments in the paper if possible. ☐ Assessment is based on predefined evaluation criteria to see how well the overall content and details of the paper(s) are (1)understood, (2) delivered in the presentation, and (3) implemented or reproduced. Detailed fields of study o Statistical Learning o Data Mining/Machine Learning o Process Mining o Financial Engineering Fields of Study o Operations Management o Operation Research o Technology Management o Quality Control o Service Science o Business Process Management Required Time | Determined by QE committee

Passing Standard	70 points or higher in the overall score.	
Measures on Unsuccessful Students	If the student does not pass the QE, he/she has a chance to re-take it only once within one year. If the student applies for QE at the end of the third year in his/her program, the student cannot have a chance to re-take QE.  If a student does not pass QE within 3 years after the registration, he/she will be terminated from the PhD or the MS-PhD program. This decision may be appealed by the student. Appeals are managed on a case-by-case basis by the QE committee.	
Standard for QE Application	To apply for taking QE, the student should earn required course credits (for PhD or MS-PhD program) specified in the section of 'Degree Requirement by Industrial Engineering' in the UNIST Graduate Program Handbook.  - Students who have taken at least two semesters and completed at least 15 credits can apply for the QE  - Students who are in the second semester and have completed 15 credits in the first semester also can apply for the QE  All PhD or MS-PhD students must take QE within 3 years after having registered the program.	
Note	Effective date for this guideline is Spring 2020. It applies to all PhD and MS-PhD students who take QE from then onward.	

# Department of Biological Sciences Major: Biological Sciences

	Wajor. Diological Sciences
Examination Schedule	<ul> <li>Every May or November</li> <li>Applicable from the 3<sup>rd</sup> semester</li> <li>Should pass the QE within six semesters of the PhD or MSc-PhD program</li> </ul>
Criteria	<ul> <li>Thesis research proposal (12 pages)</li> <li>1) Specific aims (1 page)</li> <li>2) Background and significance (3 pages)</li> <li>3) Preliminary results (3 pages)</li> <li>4) Research plan (5 pages)</li> <li>5) References</li> <li>Oral Presentation (30 min + 30 min Q/A)</li> <li>Scored by the QE evaluation index</li> </ul>
QE committee	<ul> <li>Three faculty members including one committee chair, but excluding the thesis advisor. If necessary, external reviewers can be invited</li> <li>The applicant's thesis advisor should organize the QE committee; the QE committee will discuss with the thesis advisor to finalize the QE evaluation report</li> </ul>
timeline	<ul> <li>The QE committee should submit the QE evaluation report to the Graduate Affairs Committee by the end of May or November</li> <li>Graduate Affairs Committee should deliberate the QE evaluation reports and inform each candidate of the QE result by the end of June or December</li> </ul>
Measures on Unsuccessful Students	Disqualified if the final grade is "Fail"; disqualified students can apply for a second exam in the next semester or thereafter; maximum of two attempts are allowed
Note	This guideline is effective for new graduate students in 2022 and afterward.

### **Graduate School of Artificial Intelligence** Major: Artificial Intelligence

	iviajoi.	Artificial intelligence	
When		June / December	
Times per Year		twice / year	
Criteria		Coursework	
	A Q.E. course group one of the following  ■ Method 1: any of the second of the following  At least one cours Al502 Principles of	the four courses that satisfy the following conditions: e should be one of two required courses, Deep Learning and AI503 AI Toolkits; ee Q.E. courses should be selected from at least two course	
	Track	Course Code	
Subjects	Al core	AI502 / AI503 / AI51X / AI52X / AI7XX	
Subjects	AI + X	AI53X / AI54X	
	Al systems	AI55X / AI56X	
	<ul> <li>Method 2: any of the five courses that satisfy the following conditions:</li> <li>At least one course should be one of two required courses,         Al502 Principles of Deep Learning and Al503 Al Toolkits;</li> <li>The remaining four Q.E. courses should be selected from Al core, Al+X, and Al systems track courses (Al502 / Al503 / Al51X / Al52X / Al7XX / Al53X / Al54X / Al55X / Al56X).</li> <li>Courses taken during UNIST Master program satisfying the above requirements</li> </ul>		
	can be included in	Q.E. courses.	
Required Time	N/A		
Passing Standard	Students must pass all courses from a QE course group. To pass a QE course, a student should achieve grade B+ or higher.		
Measures on Unsuccessful Students	Students who fail to pass all Q.E. courses within the allowed duration will be terminated from the Ph.D. / MS-Ph.D. program.		
Appealing Period	N/A		
Standard for Application	Allowed duration: Students must pass the Q.E. within 3 years after enrolling in the Ph.D. / MS-Ph.D. program.		
Note	This guideline will Fall 2022.	also be adapted to the students who've entered before	

# Department of Electrical Engineering Major: Electrical Engineering

When	June / December
Times per Year	twice / year
Criteria	Coursework (When failed, written test)
Passing Standard for QE	■ A student passes the QE if his/her GPA for all 500 level graduate courses is equivalent to 3.9 or higher. He/she must complete at least six 500 level courses when he/she applies for the QE.  ■ A student passes the QE if he/she receives A0 or higher for four 500 level graduate courses. Note that this is the grade in each individual course, not the average.  ■ If a student fails to satisfy the above condition 1 or 2, then he/she must take a written QE on four 500 level EE graduate courses. Courses in which the student received an A0 or higher will be waived (counted as passing that course) for the student.  Courses taken during UNIST Master program satisfying the above requirements can be considered QE courses.
Required Time for Written Exam	To be determined by individual professor in charge of each course exam.
Passing Standard for Written Exam	■ Students must receive scores greater than or equal to 60 (out of 100) for each course in order to pass an exam.
Measures on Unsuccessful Students	■ Students who fail to pass QE within the six enrolled semesters must leave the Ph.D or combined M.S-Ph.D program.  ■ Students not passing the written QE at the first attempt may be allowed to take the exam one more time. However, they cannot take the QE twice within one semester.  ■ When taking the QE again students may choose different subjects part time.
Standard for Application  When taking the QE again, students may choose different subjects next  Students must be registered for the semester in which they take the Q  Students who are taking the exam at the second attempt get waiver for passed previously.	
Note	■ Appeal process (for the written QE):  - Students have the right to dispute the outcome of the exam.  - Appeals, to be made on an individual subject basis, must be made in writing and must be submitted to the QE coordinator within 3 business days after the announcement of the outcome.  ■ Response to appeals is to be processed in the following manner:  - The written appeal will be processed by the professor in charge of the subject within 3 business days of submission of appeal.  - The professor in charge will consider the appeal and may take the following actions.  1) Dismiss the appeal,  2) Re-evaluate the submitted answers, possibly resulting in changes in the score,  3) Recommend re-taking of the exam to the QE coordinator.  The professor in charge must submit a report on the reasons behind the decision. In case of 3), the QE coordinator will initiate a due process to re-take the exam and the exam must be re-taken within 3 business days of the decision to re-take the exam.  In this case, this re-take will not be considered as a second attempt at the QE (as

designated in the "Measures on Unsuccessful Students" section).

- The outcome of the appeal process will be final. No further appeals will be allowed.
- These guidelines are applied to students entering the graduate program for Ph.D or combined M.S-Ph.D (not M.S) from the first semester in 2017, which means it will not be applied retroactively.
- Only UNIST graduate courses are valid for the QE.
- The QE results must be reported within one month after the exam to the admin office.

# Department of Computer Science and Engineering Major: Computer Science and Engineering

When	June / December	
Times per Year	twice / year	
Criteria	A. Coursework (mandatory)  B. Written Exam  O Only if the student fails to pass the Q.E. according to the A. Coursework guidelines.	
Subjects	A. Coursework  O Students must take at least four core courses including at least one core course from each subtrack.  O Core course list  1. Systems subtrack  • CSE511 Advanced computer architecture  • CSE514 Advanced computer networks  • CSE516 Advanced computer networks  (or EE538 Data Communication Networks*)  * Taking both CSE539 and EE538 is NOT allowed. Therefore, either of the courses taken can only be used for the Q.E. purpose coursework. (Exception will be made for students who have taken EE538 before 2018. Only these students will be allowed to additionally take CSE539. If these students do take CSE539, CSE539 will be used for Q.E. purpose. Otherwise, the previously taken EE538 can be used for Q.E. purpose.)  • CSE551 Advanced computer security  2. Theory and principles of software subtrack  • CSE515 Advanced Algorithms  * If a student has already taken "CSE515 Algorithm Design", the student can use it for the Q.E. purpose.  • CSE520 Computational Geometry  • CSE524 Advanced Software Engineering  * If a student has already taken "CSE524 Software Engineering", the student can use it for the Q.E. purpose.  * For students who entered the graduate program before Fall 2020, "CSE520 Computational Geometry" and "CSE530 Algorithms and complexity" can be used for the Q.E. purpose.  • CSE552 Program Analysis  3. Artificial intelligence and data science subtrack  • CSE522 Advanced Information Visualization  * If a student has already taken "CSE522 Data Visualization", the student can use it for the Q.E. purpose.  • CSE523 Advanced Human Computer Interaction  • CSE544 Advanced Machine Learning  • CSE529 Autonomous Robots	

Required Time for Written	<ul> <li>CSE545 Advanced Computer Vision</li> <li>The above core course list is subject to change on a yearly basis based on the review and recommendation of the CSE academic affairs committee.</li> <li>Courses taken during UNIST Master program satisfying the above requirements can be considered Q.E. courses.</li> <li>B. Written Exam</li> <li>Students may take as many as 4 courses for the written exam as follows:</li> <li>Required (Major research area): 2 courses</li> <li>2 courses should be chosen from the core course list of the subtrack to which the student belongs.</li> <li>Selective: 2 courses from the core course lists of the other subtracks.</li> </ul>
Exam	
Passing Standard	<ul> <li>□ Passing the Q.E.: The student must pass a total of 4 courses selected (through both A. Coursework and B. Written Exam) to pass the Q.E.</li> <li>A. Coursework</li> <li>○ The student will be considered to have passed the 4 courses if the average GPA of the 4 courses selected is A- or higher, under the condition that the grades of all 4 courses are B- or higher.</li> <li>○ If the average GPA of the student does not meet the above criteria, then Pass/Fail will be determined on an individual course basis, and courses with grades A- or higher grade will be considered pass. For the failed courses, written exams must be taken under the guideline of B. Written Exam.</li> <li>B. Written Exam</li> <li>○ Exam is graded on Pass/Fail basis and taken on an individual course basis.</li> <li>○ Courses passed through A. Coursework will be considered to be part of the Subject selection criteria and must be excluded from selection. Hence, the number of courses the student will take is 4 minus the number of passed courses through A. Coursework.</li> <li>○ Students must receive scores greater than or equal to 60 (out of 100) for each course in order to pass each course exam.</li> </ul>
Measures on Unsuccessful Students	<ul> <li>☐ Students who fail to pass the Q.E. within the allowed duration will be terminated from the Ph.D / MS-Ph.D program.</li> <li>☐ Students will be given one attempt to pass the B. Written Exam upon failure of A. Coursework.</li> </ul>
Standard for Application	<ul> <li>□ Allowed duration: Students must pass the Q.E. within 3 years after enrolling in the Ph.D / MS-Ph.D program.</li> <li>□ Students must be registered for the semester and have full graduate standing in order to take the B. Written Exam.</li> </ul>
Note	☐ In case B. Written Exam is taken, the Q.E. results must be publically announced

within two weeks after the exam.  □ Appeal process (for B. Written Exam)  - Students have the right to dispute the outcome of the exam.  - Appeals, to be made on an individual course basis, must be made in writing and must be submitted to the Q.E. coordinator within 3 business days after the announcement of the outcome.  □ Response to appeals is to be processed in the following manner:  - The written appeal will be processed by the professor in charge of the subject within 3 business days of submission of appeal.  - The professor in charge will consider the appeal and may take the following actions.  7h) Dismiss the appeal,  Lth) Re-evaluate the submitted answers, possibly resulting in changes in the score,  The professor in charge must submit a report on the reasons behind the decision.  In case of 3), the Q.E coordinator will initiate a due process to re-take the exam and the exam must be re-taken within 3 business days of the decision to re-take the exam.  In this case, this re-take will not be considered as a second attempt at the Q.E. (as designated in the "Measures on Unsuccessful Students" section).  - The outcome of the appeal process will be final. No further appeals will be allowed.  □ These guidelines are effective from the first semester of 2017, and apply to the Ph.D. and MS-Ph.D. students only.  □ These guidelines are not applicable to students who entered the graduate program before 2017
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### **Department of Physics Major: Physics**

When	Determined by Q.E. Committee
Times per Year	Twine per year (once for each semester)
Criteria	• Written Test
Subjects	<ul> <li>Classical Mechanics</li> <li>Electrodynamics</li> <li>Quantum Mechanics</li> <li>Statistical Mechanics</li> </ul>
Required Time	Determined by Q.E. Committee
Standard for Pass	<ul> <li>Determined by Q.E. Committee For each subject, the written exam will be exempt if the student meets the following requirements:</li> <li>Classical Mechanics A+, A0, A- for Classical Mechanics (PHY501)</li> <li>Electrodynamics Average 3.7 or above for Electrodynamics I, II (PHY503, PHY504)</li> <li>Quantum Mechanics Average 3.7 or above for Quantum Mechanics I, II (PHY505, PHY506)</li> <li>Statistical Mechanics A+, A0, A- for Statistical Mechanics (PHY507)</li> </ul>
Measures on Unsuccessful Students	The student may take one more examination if he or she fails in the first attempt.
Standard for Application	• Students must pass Q.E. within the 3 <sup>rd</sup> semester after enrolling in the Ph.D. course and the 4 <sup>th</sup> semester in the M.S-Ph.D. course.
Note	

Students who enroll in 2022 should follow the requirements and guidelines written above.

There are two routes to pass the Ph.D. qualification. One is taking a qualifying exam, and the other is a credit pass.

#### 1. Qualifying Exam

- Four core subjects for the written tests: Classical Mechanics, Electrodynamics I, Quantum Mechanics I, Statistical Mechanics
- There are two chances of taking exams. In the first attempt, students should take all the non-credit passed subjects. In the second attempt, students can take only non-passed subjects in the first attempt. If any failed subjects in the first attempt meet the credit pass criterion within one year, those subjects are waived from the exam.
- The Department of Physics requires combined M.S-Ph.D students to take the first exam within one year from the entrance and pass no later than two years from the entrance. The Ph.D. students should take the first exam within one year from the entrance and pass no later than one and a half years from the entrance.

#### 2. Credit Pass

- The students who earn A- or higher for any core subjects are waived from taking qualifying exams for this subject.
- For two-semester courses such as Electrodynamics and Quantum Mechanics, the average score of I and II should be 3.7 (A-) or higher for the credit pass.
- Only subjects for which the A- criterion is met within one year (March-newcomers) or one and a half years (September-newcomers) from the entrance are accepted as the credit pass (applied both to Ph.D. and combined M.S.-Ph.D programs).
- The credit pass criterion is applied automatically. No separate application is required.

In the above regulations, the semester of leave-of-absence is not counted for the required period to take the exam or credit pass.

Exceptional cases from the above regulations (for example, by dispatch to other institutes, etc) should be reviewed and approved by the department graduate committee.

# **Department of Physics Major: Applied Physics**

	Major: Applied Physics
When	<ul> <li>Year-round, but no later than the last day of the week following the final examination week. (Date to be determined by the examination committee)</li> <li>Students must take the first attempt before the end of the fourth semester.</li> </ul>
Times per Year	Twice per year
Criteria	Coursework and Comprehensive Examination
Subjects	<ul> <li>Coursework: Two core courses and two elective courses Elective courses may be any PHY500-, PHY600-, or PHY700- level courses. Students can take Graduate courses from outside the Department of Physics to fulfill the elective course requirement if relevant to their research topic. </li> <li>Comprehensive Examination: Presentation of a research project (goals, results, and plan) followed by examination (both oral)</li> <li>A written report of ongoing and planned research activities (5 to 7 pages) is to be submitted at least two weeks before the examination date.</li> </ul>
Required Time	Comprehensive Examination     Presentation: 20–30 minutes     Examination: To be determined by the committee
Passing Standard	<ul> <li>Coursework         Students must attain an average grade of B (3.0) or higher overall and achieve a grade of B (3.0) or higher in each of the two core courses.     </li> <li>Comprehensive Examination         Students must pass the comprehensive examination.     </li> </ul>
Measures on Unsuccessful Students	Students should pass the qualifying examination within three years after enrollment.
Required Documents	An application form is due in the first month of the desired semester.
Note	Students may take the comprehensive examination before or after completion of the required coursework.

### **Department of Mathematical Sciences Major: Mathematical Sciences**

Determined by Q.E Committee	
Two times / Year	
Written	
Students must choose 2 subjects for the qualifying exam out of the following 3 subjects: 'Real Analysis', 'Algebra', and 'Numerical Analysis and Applications'	
Determined by Q.E Committee	
Determined by Q.E Committee	
The student may take one more attempt per subject if he/she fails in the first test on each subject.	
Students must pass the two subjects before their 5th semester of the Ph.D//M.S-Ph.D. program starts.  Students who already got A+ grade among 'Real Analysis', 'Algebra', and 'Numerical Analysis and Applications' or equivalent ones in UNIST undergraduate, graduate school, or even other universities could be exempted from taking those subjects with committee's review  The student who is transferred from the department other than mathematical sciences must pass within 1 year after transferred. Upon the decision of the Department's Graduate Committee, one-year extension or exemption would be possible.	

<sup>※</sup> UNIST 학부, 대학원, 혹은 다른 대학교에서 실해석학, 대수학, 수치해석 및 응용 혹은 동일하다고 간주되는 과 목들 중 A+ 성적을 받은 학생들은 대학원위원회의 검토에 따라 해당 과목에 대한 응시를 면제받을 수 있다.

# **Department of Chemistry Major: Chemistry**

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When	<ul> <li>Year-round, but no later than the last day of the week following the final examination week; date to be determined by the examination committee</li> <li>Students must take the first attempt before the end of the fourth semester.</li> </ul>		
Times per Year	• Twice per year		
Criteria	Coursework and Comprehensive Examination		
Subjects	<ul> <li>Coursework: Two core courses and two elective courses Elective courses may be any CHM500- or CHM600-level courses, except CHM590 and CHM690. Students can take Graduate courses from outside the Department of Chemistry to fulfill the elective course requirement if relevant to their research topic.</li> <li>Comprehensive Examination: Presentation of a research project (goals, results, and plan) followed by examination (both oral) A written report of ongoing and planned research activities (5 to 7 pages) is to be submitted at least two weeks before the examination date.</li> </ul>		
Required Time	Comprehensive Examination     Presentation: 20–30 minutes     Examination: To be determined by the committee		
Passing Standard	<ul> <li>Coursework         Students must attain an average grade of B (3.0) or higher overall and achieve a grade of B (3.0) or higher in each of the two core courses.     </li> <li>Comprehensive Examination         Students must pass the comprehensive examination.     </li> </ul>		
Measures on Unsuccessful Students	Students should pass the qualifying examination within three years after enrollment.		
Required Documents	An application form due on the first month of the desired semester		
Note	Students may take the comprehensive examination before or after completion of the required coursework.		

# **School of Business Administration**

Major: Management Engineering		
When	June, December	
Times per Year	Twice a year	
How	<ol> <li>The student should specify a faculty member affiliated with School of Business Administration (SBA) or Graduate School of Technology and Innovation Management (MOT) as his/her dissertation advisor with the agreement from the faculty member.</li> <li>Qualifying Examination (QE) is administered by SBA QE committee.</li> <li>QE committee is composed of at least three members including his/her dissertation advisor, affiliated with UNIST. QE committee may have additional committee member(s) outside UNIST with the consent of the student and her/his dissertation advisor. All the members in QE committee will be appointed by the Dean of SBA.</li> <li>The details of QE exam are as follows:</li> <li>Test on methodology (Research methods, statistics and data analysis)</li> <li>Questions for this exam will be made based on any topics (related to research methods, statistics and data analysis) that the student learned from the courses in his/her Masters or Doctoral program.</li> <li>The student should submit his/her answers to QE committee within a specified time. This test shall be conducted by in-class test.</li> <li>Test on the field of study (Note: This test includes @ and/or @ as described below)</li> <li>Major exam @</li> <li>QE committee prepares for the reading list in the specified study field and provides it to the student no later than one month before the date when QE is taken. A set of questions will be made based on the reading list.</li> <li>The student should submit his/her answers to QE committee within a specified time. This test can be conducted by either in-class test or take-home exam and can include oral presentation on his/her answers.</li> <li>Major exam @</li> <li>QE committee provides to the student the reading(s) related to the field of study. The student should submit a document which may include 1) his/her critiques of the article, 2) his/her own further research idea(s), and/or 3) detailed research plan to pursue his/her research idea(</li></ol>	
Fields of Study	Detailed fields of study o Operations Management o Accounting o Finance/Financial Engineering o Marketing o Management Information Systems	

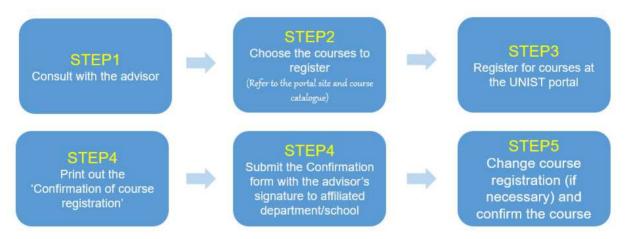
	o Organizational Behavior/Human Resource Management o Strategy Management/Technology Management/Entrepreneurship	
Required Time	Determined by QE committee	
Standard for Pass	70 points or higher in all the three individual tests described in 4 of the How' section above.	
Measures on Unsuccessful Students	If the student does not pass the test(s), he/she has a chance to re-take the 'failed' test(s) only once in the following semester. If the student fails again for any individual test(s) he/she re-takes, the student will be terminated from the PhD or the MS-PhD program.	
Standard for QE Application	<ol> <li>To apply for taking QE, the student should earn required course credits (for PhD or MS-PhD program) specified in the section of 'Degree Requirement by Management Engineering' in the UNIST Graduate Program Handbook.</li> <li>All PhD or MS-PhD students must take QE within 3 years after having registered the program. If a student does not pass QE within 3 years after the registration, he/she will be terminated from the PhD or the MS-PhD program. If the student applies for QE at the end of the third year in his/her program, the student cannot have a chance to re-take QE.</li> </ol>	
Note	Effective date for this guideline is Spring 2022. It applies to all PhD and MS-PhD students who take QE from then onward.	

## Course Registration 수강신청

## Course Registration Schedule for Spring 2023

Schedule	Date
Course Registration	Feb. 2nd(Thu) 09:00 ~ Feb. 3rd(Fri) 15:00
Course Change and Confirmation	Feb. 27th(Mon) 08:00 ~ Mar. 3rd(Fri) 18:00

- ☐ Max./Min. Credits for Course Registration 최대/최소 수강신청 학점
  - Min. 3 credits ~ Max. 13 credits per semester
     학기별 최소 3학점 ~ 최대 13학점
  - Graduate students can register for four hundred unit undergraduate courses up to six credits as graduation credits.
    학사과정 400단위 과목 수강 시 최대 6학점까지 졸업학점으로 인정 가능
- ☐ Steps for Course Registration 수강신청 단계



\* 'confirmation of course registration' should be the final list of course registration. Therefore, when changing the registered courses, STEP 4 should be carried again.

수강신청확인서에는 반드시 최종 수강신청 내역이 기재되어야 함

#### 1. Course Registration 수강신청

#### ☐ Master's Research / Doctoral Research 석·박사 논문연구

• The variable credit system applies to 'Master's Research' and 'Doctoral Research'. A student can select the credit that he/she wants:

석·박사 과목은 가변학점으로 수강신청 시 희망 학점을 기입

- · Master's Research: 1-3 credits
- · Doctoral Research: 3-9 credits
- The number of credits should be decided through consulting with the advisor. 지도교수 상담 후 학점 수 결정
- Students are allowed to register for only one research course of their own degree program (Master's program: master's research, Doctoral program: doctoral research, Combined master's- doctoral program: master's research or doctoral research)

논문연구과목은 각 과정별 과목만 수강 가능 (석사과정생: 석사논문연구, 박사과정생: 박사논문연구, 석·박사통합과정생: 석사논문연구 또는 박사논문연구)

o 'Master's Research' and 'Doctoral Research' cannot be registered at the same semester.

석사 논문연구와 박사 논문연구 한 학기에 동시 신청 불가

#### ☐ Course Change 수강정정

• Students can cancel a course and register for another course if seats remain in the first week of the semester.

학기 첫째 주에 수강과목 취소 및 신청 가능

#### ☐ Course Drop 수강 취소

- Application Period: from the 2nd~4th week of each semester 신청 기간: 매 학기 2~4번째 주
- For dropping a course, students are required to apply for "Course Drop" on the portal site. After getting approval from the course instructor, their advisor and Department(school) head, the course will be deleted from registration record.

포털에서 수강취소 신청 가능. 과목 담당교수, 지도교수, 학과(부)장 승인 필요

#### ☐ Submission of 'Confirmation of Course Registration' 수강신청 확인서 제출

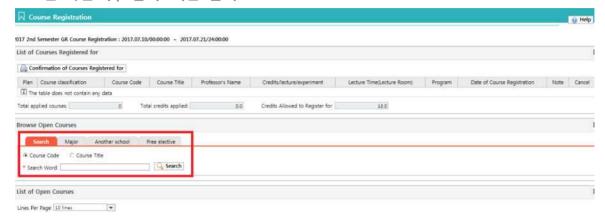
 All graduate students should submit 'Confirmation of course registration' with the advisor's sign on it to his or affiliated department(school) before the course change & confirmation period ends.

수강정정기간 동안 지도교수 서명을 받아 '수강신청 확인서' 소속 교학팀 제출

#### 2. How to Register for Courses 수강신청 방법

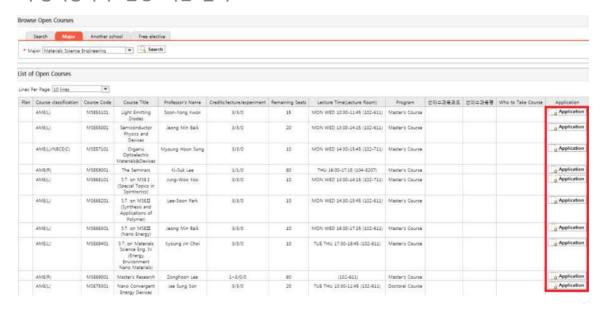
- ☐ Search the courses 조건 검색
  - After checking the conditions, click the 'Search' button.

조건 확인 후, '검색' 버튼 클릭



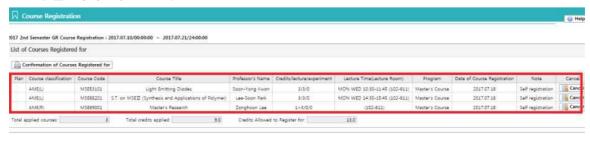
o Click the 'Application' button to apply for the course.

수강희망과목 '신청' 버튼 클릭



• Please check the course list you applied for.

신청된 과목 리스트 확인



#### 2. How to Register for Courses 수강신청 방법

#### ☐ Register for Variable Credit Courses 가변학점 신청

• 'Master's research' and 'Doctoral research' are courses that the variable credit system is applied to. Click the 'Application' button, and then the screen appears as shown below.

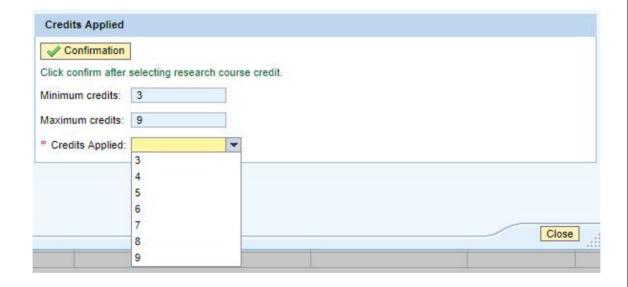
석·박사 논문연구과목은 가변학점이며, '신청' 버튼 클릭 시 아래 창이 나타남

• Enter the number of credits you would like to register and click the 'Confirmation' button.

수강하고 싶은 학점을 입력하고 '확인' 버튼 클릭

\* Student should double check final credit he or she registered. The registered credit shall not be changed during the semester.

최종 수강 학점은 학기 중 변경이 불가하므로, 최종 신청학점 확인 필요



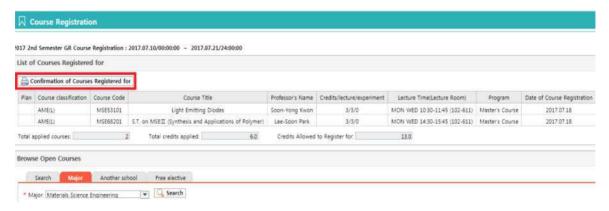
### 2. How to Register for Courses 수강신청 방법

☐ Print out 'Confirmation of Courses Registration for '

수강신청확인서 출력

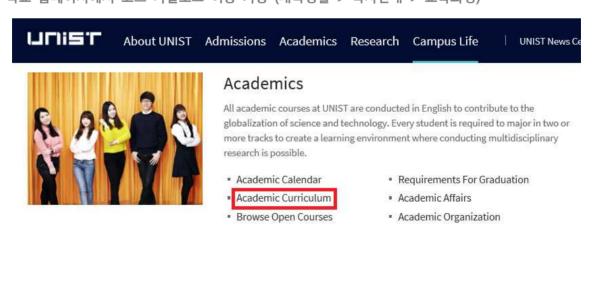
 After the course registration is done, all students are required to print out and submit the course list that he/she registered for to an academic advisor for confirmation. Print out the list by clicking the 'Confirmation of Courses Registered for' button.

수강신청 완료 후, 상단의 버튼을 클릭하여 '수강신청확인서' 출력



- ☐ Course Catalog 코스 카탈로그
  - Course Catalog is available at the UNIST Homepage.
     (Campus Life > Academics > Academic Curriculum)

학교 홈페이지에서 코스 카탈로그 이용 가능 (대학생활 > 학사안내 > 교육과정)



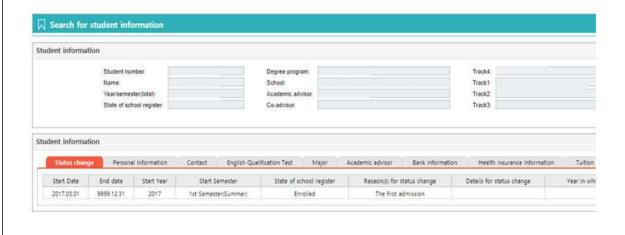
## VIII

## Academic Services 학사 서비스

## 1. Personal Information Update 개인정보 업데이트

- ☐ Personal Information Update (online) 개인정보 업데이트 (온라인)
  - o If there are any changes to personal contact information such as home phone number, cell phone number or email address, please log into the student portal(http://portal.unist.ac.kr), click on the 'Student Registry' menu and go to the 'Change student info' then enter the new information. (available to change personal contact: if you have a Korean mobile number, please modify your contact for receiving notification SMS from UNIST)
    - 포털 학적 > 학생정보 > 학생정보 수정에서 개인정보 변경 (연락처, 영문성명 수정도 가능)
- For two-factor authentication (additional authentication through phone, SMS, or mobile app) required to access UNIST services (portal, e-mail, etc.), it is required to install the "Microsoft Authenticator" app or register your mobile number. If you use two-factor authentication by phone/SMS, you cannot receive an authentication code in case your mobile number is changed, so you should register your mobile number which is scheduled to be changed on the account management site (https://account.unist.ac.kr) in advance.
  - 정보서비스(포탈, 이메일 등) 접속 시 요구되는 멀티인증(전화/문자/앱을 통한 이중인증)을 위해 'Microsoft authenticator' 모바일앱 또는 휴대폰 번호 등록이 필요합니다. 전화/문자로 멀티인증을 사용하는 경우 휴대폰번호가 변경되면 인증코드를 받을 수 없으므로 사전에 계정관리사이트(https://account.unist.ac.kr) 에서 변경 예정인 휴대폰번호를 추가 등록해주셔야 합니다.
- Please contact the Educational Affairs Team for changing your picture in the portal.

포털의 본인 사진 변경 시 학사팀 학적 담당자에게 연락



#### 2. Certificates 증명서

## ☐ Types of Certificates

Types		Certificate	
1	Undergraduate/Graduate	Certificate of Enrollment	
2	Undergraduate/Graduate	Certificate of Expulsion	
3	Graduate	Certificate of Course Completion	
4	Undergraduate	Certificate of Graduation	
5	Graduate	Certificate of Degree Conferment	
6	Undergraduate	Certificate of Expected Graduation	
7	Graduate	Certificate of Expected Course Completion	
8	Graduate	Certificate of Expected Degree Conferment	
9	Undergraduate/Graduate	Academic Transcripts	
10	Undergraduate/Graduate	Certificate for Leave of Absence	
11	Undergraduate/Graduate	Confirmation of scholarship	
12	Undergraduate/Graduate	Confirmation of Non Payment of scholarship	
13	Undergraduate	Certificate of Grade Completion	
14	Undergraduate/Graduate	History of Enrollment	

<sup>※</sup> Students are required to input his/her English name on the portal site for the English version of his/her certificates. 포털 영문 성명이 정확히 입력되어 있어야 함

#### Services

Types	Contents	Service type	Cost
Kiosk	Machines are available for 24 hours a day	Print	500 won/1 copy
Internet	Real-time issuance using the Internet	Print, Digital format, Domestic delivery	Print: free Digital: 2,000 won/1 copy Delivery: 8,000 won/1 copy
PostMAN	International Mail Service	DHL Mailing	Actual cost
Fax	Applying through '정부24(gov.kr)'website	Visit community service center	Commission (community service center)
Online Attachment	Attaching certificates to Human Resources Development Service of Korea	Attach	Commission (HRD Service of Korea)

 $<sup>\</sup>times$  UNIST certificate issuance: use the same ID(not student number)/PW as the UNIST portal <a href="https://uni.webminwon.com/servlet/WMINDEX?COMMAND=UNIST&LA=ko\_KR">https://uni.webminwon.com/servlet/WMINDEX?COMMAND=UNIST&LA=ko\_KR</a>

#### ☐ How to issue

Types	How to	Remarks
	MAB 1F, Lobby of the Bldg.104 (kiosk)	Educational Affairs
On campus	MAB 2F Educational Affairs Team	Team 052-217-1116
	Available time: weekdays 09:00~18:00	Services related
Internet(PostMAN)	Portal-Certificate issuance	inquiries 02-1644-2378

X For further information, contact the Educational Affairs Team: 052-217-1116(Tel)/1119(Fax)

<sup>※</sup> Certificate of Enrollment can be issued during enrolled period. (not available during the leave of absence) 재학증명서는 재학기간 중 발급, 휴학기간 중에는 휴학증명서 발급 가능

X Fax, mobile, and online attachment services are available only for Korean students.

# 3. Campus Map 캠퍼스 지도

https://www.unist.ac.kr/about-unist/directions/map/



# 4. Contact Address regarding Academics

학사업무 관련 연락처

O#	Location		Contact Info	
Office	Loca	Tel.: 052-217-		
Educational Affairs Team	201 Main Administration Bldg. #203		1112~7	
Mechanical Engineering			1807	
Urban and Environmental Engineering			1803	
Graduate School of Semiconductor Materials and Devices Engineering	Academic and Student Affairs Team, College of Engineering	108 Natural Science Bldg. #U203-2	1807	
Materials Science and Engineering			1802	
Energy and Chemical Engineering			1806	
Nuclear Engineering			1804	
Graduate School of Carbon Neutrality	Graduate School of Carbon Neutrality		1806	
Design		108 Natural Science Bldg. #U203-1	1846	
Industrial Engineering			1847	
Biomedical Engineering			1845	
Biological Sciences	Academic and Student		1845	
Graduate School of Artificial Intelligence	Affairs Team, College of Information and Biotechnology		1846	
Electrical Engineering	3,		1847	
Computer Science and Engineering			1846	
Physics	A sadawia asad	108 Natural Science Bldg #701-12	1882	
Mathematical Sciences	Academic and Student Affairs Team, College		1882	
Chemistry	of Natural Sciences		1883	
School of Business Administration	School of Business Administration Admin. office	114 Business Administration Bldg. #601	3666	