

# Instructions on Academic Policy change (Track based system → Department based system)

\* (Notice) This policy will be applied after the final decision of the board of directors regarding school regulation amendment. If the decision is changed, the contents may be changed.



# What has been changed?

## Definition

- Track based curriculum: Curriculum provided between 2011~2020, Mandatory 2 track policy
- Department based curriculum: Curriculum provided in 2021 and after, 1 Major mandatory, Minor/Double Major optional

There are big difference in basic, major course taking. And minor/double major became optional.

Details are provided below.

\* Changing to department-based curriculum is not mandatory. Students can choose whether to change or not.

\*\* Changing from track-based to department-based is allowed but returning from department-based to track-based is not allowed.

Category	Track based curriculum	Department based curriculum
Affiliation	Each School – Track	Each College – Department
Major	Mandatory 2 track	Minor/Double Major : Optional
Total Credits ( ): Business Field	Students entered between 2011~15: 135(4) credits Students entered after 2016~: 142(1) credits	124 credits
Following Curriculum	Integrated track graduation requirement (There are several exceptional tracks and curriculum year, so please look carefully of the integrated requirement)	2021 Curriculum
Basic courses (Formerly fundamental)	Engineering Field: 40 Credits Business Field: 30 Credits	Engineering Field: At least 30 credits Business Field: At least 28 credits (Refer to each department(school) requirement)
1 Track Credits / Major Credits	11~13 Curriculum: 33 Credits 14~15 Curriculum: 48 Credits 16 Curriculum~: 54 Credits	At least 48 credits (Refer to each department(school) requirement)
2 Track Credits / Minor Credits	11~13 Curriculum: 27 Credits 14 Curriculum~: 18 Credits	At least 18 credits (Refer to each department(school) requirement)
Interdisciplinary Double Major / Double Major credits	48 Credits	At least 36 credits (Refer to each department(school) requirement)
Field Change	Follow each year requirement	Can change from 5 <sup>th</sup> semester. Also, follow each year requirement

# What shall be my graduation requirement if I change to department-based curriculum?

If you change to department-based curriculum, you should follow 2021 curriculum in principle.

Please compare your already taken courses with 2021 curriculum. Refer to below example

In addition, your already taken courses can be additionally counted with 2021 curriculum. It varies department to department so please double check your affiliation requirement that shall be notified separately.

## Example(Department of Materials Science and Engineering)

Course Name	Credit	Taken course	2021 Curriculum	
			Required	Elective
<i>Intro to MSE</i>	3	0	0	
<i>Physical Chemistry I : Thermodynamics</i>	3	0	0	
<i>Introduction to Crystallography</i>	3	0	0	
<i>Introduction to Computational Materials Science</i>	3	0	0	
<i>Materials Lab</i>	3	0	0	
<i>Phase Transformations in Materials</i>	3	0	0	
<i>Introduction to Semiconductor</i>	3	X		
<i>Electromagnetics</i>	3	0		0
<i>Surface Science of Materials</i>	3	0		0
<i>Introduction to Nanomaterials</i>	3	0		0
<i>Introduction to Polymer Materials</i>	3	0		0
<i>Introduction to Metallic Materials</i>	3	0		0
<i>Nano-Electroceramics</i>	3	0		0
<i>Thin-Film Technology</i>	3	0		0
<i>Nano-energy Materials</i>	3	0		0
<i>Nanophotonics</i>	3	0		0
<i>Bio-inspired Materials Science</i>	3	0		0
Standard		Required: 21 credits / Elective: 30 credits / Total: 51 Credits		
Credits taken		Required: 18 credits / Elective: 30 credits / Total: 48 Credits		

① Write down the courses you have already taken.

② Check the category(Required/Elective) with reference to 2021 curriculum.

③ If there are courses you haven't taken, take additionally. And if there are courses you have taken excessively, it will be counted in free elective.

# When can I change my major and what are qualifications?

## When can I change to department-based curriculum?

You can change your affiliation between major selection/change period. It will be offered every semester

Application period for 2021 Spring: June 7<sup>th</sup>(Mon) ~ 18<sup>th</sup>(Fri)

## What are qualification for change?

1) Major selection(for freshmen): Students enrolled in 2<sup>nd</sup> semester

2) Major change: Students enrolled in 3<sup>rd</sup> semester to 8<sup>th</sup> semester

\*In case of excessive semester enrolled students, they can change to department-based curriculum but only the very first application is allowed but changing their major will not be allowed according to related regulation.

3) Minor/Double Major application: Students enrolled in 3<sup>rd</sup> semester or over

\*Minor: can apply up to 2 minors. Double major: up to 1 double major allowed.

4) Field Change (ENG: Engineering Field, BUS: Business Field)

Category	ENG→BUS Qualification	BUS→ENG Qualification
2020 entrants	None	1) Students enrolled between 3 <sup>rd</sup> semester and 8 <sup>th</sup> semester 2) Students who have taken all engineering field basic required courses(17 <sup>th</sup> credits)
① Students entered in 2021 and after ② Students entered in 2020 and before + students who have changed to department-based curriculum		1) Students enrolled between 5 <sup>th</sup> semester and 8 <sup>th</sup> semester 2) Students who have taken all engineering field basic required courses(17 <sup>th</sup> credits) 3) Students who have taken 4 courses among following courses designated by school of business administration – MGT201 Management Information Systems, MGT202 Organizational Behavior, MGT204 Marketing Management, MGT205 Financial Accounting, MGT207 Financial Management, MGT209 Operations Management, MGT499 Strategic Management

## The definition of 'Free Elective' has been changed!

Formerly, free elective credits has been counted as 'course' unit. But now, free elective is a credit sum of ① courses that are not categorized in any field and ② excessive credits of each field. (This shall be applied for all students regardless of their following curriculum)

Example is provided below.

구분	Basic	Liberal Arts	Major	Internship
Standard	32 credits	24 credits	51 credits	3 credits
Credits Taken	32 credits	21 credits	55 credits	4 credits
Lack of credits	-	3 credits	-	-
Excessive credits	-	-	3 credits	1 credits

→ ② Excessive credits of each field (4 Credits)



① courses that are not categorized in any field (8 credits)

Course Title	Credits
<i>Gen. Chem. Lab. 2</i>	<i>1</i>
<i>Gen Phy. Lab. 2</i>	<i>1</i>
<i>Organic Chemistry 1</i>	<i>3</i>
<i>Discrete Mathematics</i>	<i>3</i>

# Q1. What will my major be if my 1<sup>st</sup> track and 2<sup>nd</sup> track has been unified?

You should select one department(major). (Refer to below table)

For example, if your current 1<sup>st</sup> is HFE, 2<sup>nd</sup> track is BME, those two track has been unified to Department of Biomedical Engineering. In this case, you should select 'Department of Biomedical Engineering'. You **can't** select 'Department of Biomedical Engineering' as both Major and minor.

**\*\*Please note that you can't mix track and department. Ex) SDC track as Major + Department of Biomedical Engineering (Minor) → IMPOSSIBLE**

School 학부	Track 트랙	Department 학과
Mechanical, Aerospace and Nuclear Engineering 기계항공및원자력공학부	Mechanical and Aerospace Engineering (MAE) 기계항공공학 트랙	Department of Mechanical Engineering 기계공학과
	System Design and Control Engineering (SDC) 제어설계공학 트랙	
	Nuclear Science and Engineering (NSE) 원자력과학공학 트랙	Department of Nuclear Engineering 원자력공학과
Urban and Environmental Engineering 도시환경공학부	Environmental Science and Engineering (ESE) 환경과학공학 트랙	Department of Urban and Environmental Engineering 도시환경공학과
	Urban Infrastructure Engineering (UIE) 도시건설공학 트랙	
	Disaster Management Engineering (DME) 재난관리공학 트랙	
Design and Human Engineering 디자인및인간공학부	Industrial Design (ID) 산업디자인 트랙	Department of Design 디자인학과
	Human Factors Engineering (HFE) 인간공학 트랙	Department of Biomedical Sciences 바이오메디컬공학과
Life Sciences 생명과학부	Biomedical Engineering (BME) 생명공학 트랙	
	Biological Sciences (BIO) 생명과학 트랙	Department of Biological Sciences 생명과학과
Materials Science and Engineering 신소재공학부	Advanced Materials Science (AMS) 신소재과학 트랙	Department of Materials Science and Engineering 신소재공학과
	Semiconductor Materials Engineering(SE) 반도체재료공학 트랙	
Energy and Chemical Engineering 에너지및화학공학부	Energy Engineering (ENE) 에너지공학 트랙	School of Energy and Chemical Engineering 에너지화학공학과
	Chemical Engineering (ACE) 화학공학 트랙	
Electrical and Computer Engineering 전기전자컴퓨터공학부	Electrical Engineering (EE) 전기전자공학 트랙	Department of Electrical Engineering 전기전자공학과
	Computer Science & Engineering (CSE) 컴퓨터공학 트랙	Department of Computer Science and Engineering 컴퓨터공학과
Natural Science 자연과학부	Physics (PHY) 물리학 트랙	Department of Physics 물리학과
	Chemistry (CHEM) 화학 트랙	Department of Chemistry 화학과
	Mathematical Sciences (MTH) 수리과학 트랙	Department of Mathematical Sciences 수리과학과
Management Engineering 경영공학부	Management Engineering (MGE) 경영공학 트랙	Department of Industrial Engineering 산업공학과
Business Administration 경영학부	Management (MGT) 경영학 트랙	School of Business Administration 경영과학부
	Finance & Accounting (FIA) 재무회계학 트랙	
	Entrepreneurship (EPS) 벤처경영 트랙	

## Q2. I don't want to maintain 2 track. Which category will the already taken 2<sup>nd</sup> track credits be classified?

A) Those credits will be classified in 'Free elective' credits. If you wish to maintain 2<sup>nd</sup> track credits as a major, you should apply for 'minor'.

## Q3. I should've taken Interdisciplinary project when following track-based curriculum. How will this change in the department-based curriculum?

A) In the department-based curriculum, every department(school) will have their own graduation requirement. Please check 2021 catalog. If you decide to maintain track-based curriculum, you should take interdisciplinary project for graduation.

## Q4. What is the difference between minor and double major?

A) Here are difference between minor and double major

- Minor: Minor is lower level of the major, a degree is not awarded separately but will be marked on the diploma.
- Double Major: Double Major is same level as major, additional degree will be awarded and will be marked additionally on the diploma.

EX) ME Major, PHY Double Major: Two bachelor of science degrees will be awarded



## Q5. I want to maintain track-based curriculum as I've already taken all graduation requirement. Which graduation requirement should I refer to?

You should refer to Track integrated graduation requirement for graduation😊

## Q6. What is the meaning of 'Minor/Double Major credits will be repeatedly counted with free elective'?

Total graduation requirement 124 credits is requirement for one major. If you apply for minor and double major, total graduation requirement will be increased. (Minor at least 18 credits, Double Major at least 36 credits, refer to each department graduation requirement). Among increased credits, 6 credits will be repeatedly counted with free elective and 6 credits will be subtracted from total graduation requirement. You don't need to specify the courses for free elective.

Example) Department of Urban and Environmental Engineering(Major) + School of Energy and Chemical Engineering (Minor)

Category	Credits
Basic	30
Liberal Arts	24
Major	54 + 3(Internship)
Minor	18
Free Elective	13(6+7)
Leadership	6AU
Total	136 Credits/6AU

Course Title	Credits
Organic Chemistry 1	3
Physical Chemistry 1	3
Introduction to Chemical Process	3
Chemical Engineering Thermodynamics	3
Chemical Reaction Engineering	3
Transport Phenomena: Momentum, Heat, and Mass Transfer	3

In case of (one major 124 credits) + (Minor 18 credits) = 142 credits – (repeatedly counted 6 credits) = 136 credits