

Curriculum for International Bachelor Degree Program

Number of credits for graduation is 141, including

Course	Core Courses	Fundamental (College)	Specialized (Dept.)		General Education	Credits for Graduation
	Required	Required	Required	Elective	Required	
Credits	16	18	50	41*	16	141

***Credits of Specialized course (Elective): 41 include 38 credits at our department, and 3 credits at our department or other departments.**

[Core Courses] (16, required)

1. Basic Chinese: Freshman I II (4 credits)

2. International Language: Freshman I II, Sophomore I II (4 credits)

(1) Students still must pass **English Exam** for graduation (one of the following requirements)

➤ The 1st stage of high-intermediate level in the GEPT

➤ 69 on the iBT TOEFL

➤ 5.5 on the IELTS

➤ 750 on the TOEIC

※ **Students must take 'REMEDIAL ENGLISH' (0 credit, required) for one semester if they can't pass exam before senior year.**

(2) Students who were born in an English-speaking country can choose other international languages

3. History & Citizenship: complete before graduation (4 credits)

4. Philosophy & Art: complete before graduation (4 credits)

[Fundamental Courses] (18, Required)

Course Name	Credits	Course Name	Credits
GENERAL PHYSICS (1)(2)	6	GENERAL PHYSICS LAB. (1)(2)	2
Chemistry	3	Chemistry LAB.	1
Calculus (1)(2)	6		

[Specialized Courses] (50 credits, Required)

Course Name	Credits	Course Name	Credits
ENGINEERING GRAPHICS (1)(2)	2	INTRODUCTION TO COMPUTERS	3
APPLIED MECHANICS	3	ENGINEERING MATHEMATICS (1)(2)	6
SURVEYING	3	SURVEYING PRACTICE	1
ENGINEERING MATERIALS LAB.	1	ENGINEERING MATERIALS	3
TRANSPORTATION ENGINEERING	3	DYNAMICS	3
FLUID MECHANICS	3	MECHANICS OF MATERIALS (1)	3
SOIL MECHANICS	3	ENGINEERING GEOLOGY	3
ENGINEERING PROJECT MANAGEMENT	3	SOIL MECHANICS LAB.	1
REINFORCED CONCRETE	3	STRUCTURAL THEORY(1)	3

[Required Elective (Department)] (18 credits, Preassign)

Course Name	Credits	Course Name	Credits
COMPUTER APPLICATIONS	3	HYDROLOGY	3
ENVIROMENTAL ENGINEERING	3	MECHANICS OF MATERIALS (2)	3
STRUCTURAL THEORY(2)	3	FOUNDATION ENGINEERING	3

系專業選修 38 學分可含土環學群(水利系、測量系與環工系)及規劃與設計學院(建築系、工設系、都計系與創意產業設計研究所)之課程至多 6 學分，惟該課程與本系專業課程名稱或內容相似者，不予承認。

Note: Dept. allows that 38 credits include maximum 6 credits at College of Engineering, or College of Planning and Design. Similar course name or contents will not be admitted.

- College of Engineering: Dept. of Hydraulic and Ocean Engineering, Dept. of Geomatics, and Dept. of Environmental Engineering
- College of Planning and Design: Dept. of Architecture, Dept. of Industrial Design, Dept. of Urban Planning, and Institute of Creative Industries Design

[General Education] (16 credits, Required)

1. **Interdisciplinary Courses:** 10-14 credits. (include Fundamental courses and Specialized Courses)

(1) Fundamental Courses: 2-4 credits per category

The maximum credits of these categories is **4**: Humanities, Social Sciences, Life Sciences & Health

The maximum credits of this category is **2**: Nature & Engineering Sciences

(2) Fundamental (Specialized) courses:

(a) Students must have the approval of the department chairman before taking required or elective fundamental courses from other departments for interdisciplinary course credits.

(b) Students can take International Language courses (non-English) for the category of Humanities, and the maximum credits of this category is 4.

2. **Comprehensive Courses:** 2-6 credits. (include Leadership Forum, Practice of General Education, and Lecture Tour on General Education)

※ **Department won't admit some specialized courses as following general education courses due to they are similar to ours.**

Nature & Engineering Sciences

1	INTRODUCTION TO ENGINEERING	8	ELECTRICITY & LIFE
2	DISASTER PREVENTION TECHNOLOGY	9	INTRODUCTION TO COMPUTER
3	NETWORK AND INFORMATION TECHNOLOGY	10	WWW HOMEPAGE DESIGN
4	STORY OF MATHEMATICS	11	UNDERSTANDING EARTHQUAKE
5	STORY OF PHYSICS	12	BUDDHISM OF WATER
6	CHEMISTRY IN PERSONAL CARE & HOUSEHOLD CLEANING PRODUCTS	13	ENVIRONMENTAL POLLUTION PREVENTION
7	FASCINATING CHEMISTRY AND EXPERIMENT	14	Green Architecture

Social Sciences

15 STATISTICS & LIFE