

# Department of Civil Engineering Department (Degree Program) Graduation Requirements for Undergraduate Students (Enrolled after 2025 Summer)

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<b>I. Period of Study :</b> 1. Minimum period of study : 4 years (5 years for Veterinary Medicine) 2. Can be extended for 2 more years (excluding 2 years of suspension)		<b>V. Department Required Professional Courses and Credits:</b> <b>Minimum 67 credits.</b>																																																																																																				
<b>II. Minimum graduation credits: 131 credits (excluding PE credits).</b>																																																																																																						
<b>III. University Required Courses and Credits:</b> 1. Physical Education (PE) Course: 2 credits, not included in graduation credits. Additional credits earned from PE courses are capped at 2 and will count as credits from other departments. Student Athletes with outstanding sports achievements will be handled according to the relevant regulations of the Office of Physical Education and Sports. 2. English Proficiency Requirement: 0 credit. 3. General Education : 28 credits i. Core Competencies: at least 3 credits. International students do not need to take the “Information Literacy” course. ii. Language Competencies: (at least 8 credits) ➢ Native Language and Literature : 4 credits Narrative Expression: Language Literacy Narrative Expression: Language Application ➢ Foreign Language: at least 4 credits and at most 6 credits. ■ English Communication and Expression ■ Academic English : Listening and Reading □ Academic English : Speaking and Writing iii. Domain Competencies: at least 10 credits ➢ Humanistic Domain, Social Science Domain, and Natural Domain: at least one course in each Domain, total at least 6 credits. ➢ Integrated Domain: at least 4 credits. ➢ For National Defense Education courses, only credits of 1 course can be counted toward general education credits. ➢ Our program belongs to the area of _____, therefore, only one course from this area will be recognized. IV. Extra credits □ can ■ can’ t be counted toward the graduation credits.																																																																																																						
<b>IV. College Required Professional Courses and Credits:</b> <b>Minimum 0 credits.</b>																																																																																																						
<table><tr><th>Course Title</th><th>Semester /Year</th><th>Credits</th></tr><tr><td>1.</td><td></td><td></td></tr><tr><td>2.</td><td></td><td></td></tr><tr><td>3.</td><td></td><td></td></tr><tr><td>4.</td><td></td><td></td></tr></table>		Course Title	Semester /Year	Credits	1.			2.			3.			4.			<table><tr><th>Course Title</th><th>Semester /Year</th><th>Credits</th></tr><tr><td>(1)微積分(一)Calculus( I )</td><td>Semester</td><td>3</td></tr><tr><td>(2)微積分(二)Calculus( II )</td><td>Semester</td><td>3</td></tr><tr><td>(3)工程圖學 Engineering Graphics</td><td>Semester</td><td>2</td></tr><tr><td>(4)計算機概論(一) Introduction to Computer Science( I )</td><td>Semester</td><td>2</td></tr><tr><td>(5)工程材料學 Engineering Materials</td><td>Semester</td><td>3</td></tr><tr><td>(6)工程材料學實驗 Experiment of Engineering Materials</td><td>Semester</td><td>1</td></tr><tr><td>(7)工程力學(一) Engineering Mechanics( I )</td><td>Semester</td><td>3</td></tr><tr><td>(8)工程數學(一) Engineering Mathematics( I )</td><td>Semester</td><td>3</td></tr><tr><td>(9)工程數學(二) Engineering Mathematics( II )</td><td>Semester</td><td>3</td></tr><tr><td>(10)水文學 Hydrology</td><td>Semester</td><td>3</td></tr><tr><td>(11)測量學(一) Surveying( I )</td><td>Semester</td><td>2</td></tr><tr><td>(12)測量學實習 Laboratory of Surveying</td><td>Semester</td><td>1</td></tr><tr><td>(13)測量學(二) Surveying( II )</td><td>Semester</td><td>2</td></tr><tr><td>(14)工程統計學(一) Engineering Statistics( I )</td><td>Semester</td><td>3</td></tr><tr><td>(15)材料力學 Mechanics of Materials</td><td>Semester</td><td>4</td></tr><tr><td>(16)流體力學(一) Fluid Mechanics( I )</td><td>Semester</td><td>3</td></tr><tr><td>(17)流體力學實驗 Experiment of Fluid Mechanics</td><td>Semester</td><td>1</td></tr><tr><td>(18)結構學(一) Structural Theory( I )</td><td>Semester</td><td>3</td></tr><tr><td>(19)鋼筋混凝土學 Reinforced Concrete</td><td>Semester</td><td>3</td></tr><tr><td>(20)土壤力學(一) Soil Engineering( I )</td><td>Semester</td><td>3</td></tr><tr><td>(21)土壤力學實驗 Experiment of Soil Engineering</td><td>Semester</td><td>1</td></tr><tr><td>(22)結構學(二) Structural Theory( II )</td><td>Semester</td><td>3</td></tr><tr><td>(23)結構學實習 Laboratory Test of Structures</td><td>Semester</td><td>1</td></tr><tr><td>(24)基礎工程學(一) Foundation Engineering( I )</td><td>Semester</td><td>3</td></tr><tr><td>(25)工程地質學 Engineering Geology</td><td>Semester</td><td>3</td></tr><tr><td>(26)水利工程學(一) Hydraulic Engineering( I )</td><td>Semester</td><td>3</td></tr><tr><td>(27)土木工程專題研究 Topic Study in Civil Engineering</td><td>Semester</td><td>2</td></tr></table>		Course Title	Semester /Year	Credits	(1)微積分(一)Calculus( I )	Semester	3	(2)微積分(二)Calculus( II )	Semester	3	(3)工程圖學 Engineering Graphics	Semester	2	(4)計算機概論(一) Introduction to Computer Science( I )	Semester	2	(5)工程材料學 Engineering Materials	Semester	3	(6)工程材料學實驗 Experiment of Engineering Materials	Semester	1	(7)工程力學(一) Engineering Mechanics( I )	Semester	3	(8)工程數學(一) Engineering Mathematics( I )	Semester	3	(9)工程數學(二) Engineering Mathematics( II )	Semester	3	(10)水文學 Hydrology	Semester	3	(11)測量學(一) Surveying( I )	Semester	2	(12)測量學實習 Laboratory of Surveying	Semester	1	(13)測量學(二) Surveying( II )	Semester	2	(14)工程統計學(一) Engineering Statistics( I )	Semester	3	(15)材料力學 Mechanics of Materials	Semester	4	(16)流體力學(一) Fluid Mechanics( I )	Semester	3	(17)流體力學實驗 Experiment of Fluid Mechanics	Semester	1	(18)結構學(一) Structural Theory( I )	Semester	3	(19)鋼筋混凝土學 Reinforced Concrete	Semester	3	(20)土壤力學(一) Soil Engineering( I )	Semester	3	(21)土壤力學實驗 Experiment of Soil Engineering	Semester	1	(22)結構學(二) Structural Theory( II )	Semester	3	(23)結構學實習 Laboratory Test of Structures	Semester	1	(24)基礎工程學(一) Foundation Engineering( I )	Semester	3	(25)工程地質學 Engineering Geology	Semester	3	(26)水利工程學(一) Hydraulic Engineering( I )	Semester	3	(27)土木工程專題研究 Topic Study in Civil Engineering	Semester	2
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<b>VI. Department Professional Elective Courses and Credits:</b> <b>Minimum 36 credits.( Including elective credits from other departments)</b>																																																																																																						

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VII. Other Regulations:

VII. Other special regulations: The maximum number of credits for elective courses in other departments is 9.

VIII. Minor Degree: To earn a minor degree, students are required to take 20 (or more) credits in addition to the department's minimum graduation credits. For more details, please see the bulletin of Curriculum Division website.

IX. Double Major: The graduation requirements for students in pursuit of a double major (department or degree program) shall be determined by relevant regulations in effect at the time when their application was approved. Double major students not only have to fulfill all graduation credit requirements of their first major (department or degree program), they must also complete all core courses for their second major (department or degree program). Only upon achieving a passing grade in these courses will students be eligible for a double major graduation qualification.

Undergraduate students who did not complete or are short of 40 credits for the second major must make up for those credits by taking courses designated by the second major (department or degree program).

X. Cross-Disciplinary Expertise Development Program: If the required professional courses of the program overlap with those of the affiliated departments (degree programs), double major, minor, or other cross-disciplinary expertise programs, students shall not take the said courses. Instead, they shall select other courses specified by the program's departments (degree programs) or colleges.

XI. Students who graduate from educational institutions equivalent to senior high school or junior college with a secondary education study period of less than 6 years are required to complete at least 12 extra credits as part of their graduation requirements.

2024/5/6

Department/Graduate Institute/Degree Program Processing Clerk

系(所、學位學程)承辦人：

Signature by Department (Degree Program) Head:

系所主管簽章：

2022/7