

土木工程學系(學位學程)學士班學生畢業條件明細表(115學年度起入學適用)

項 目		項 目																																																											
一、修業年限： (一)最低修業年限：四年(獸醫系五年) (二)可延長修業二年(不包括休學二年) 二、應修最低畢業總學分數：共131學分(不含體育課程)。 三、校必修課程及學分數： (一)體育課程：必修2學分，不計入畢業學分。超修之體育課程至多採計為外系2學分。運動績優生另依體育室相關規定辦理。 (二)英文能力檢定：0學分。 學系自訂更高之標準者從其規定：(請敘明) (三)通識課程：28學分。(課程分類請參閱選課系統) 1.核心素養課程：共10類，至少3學分。 其中「資訊素養：程式設計與AI應用」修課規定如下： <input type="checkbox"/> 必修1學分(外籍生得免修)。 <input checked="" type="checkbox"/> 免修，學生如修習 <input checked="" type="checkbox"/> 可以 <input type="checkbox"/> 不可以採計為通識畢業學分。 2.語文素養課程：10學分。 (1)本國語文：4學分 <input checked="" type="checkbox"/> 敘事表達：語文素養 2學分 <input checked="" type="checkbox"/> 敘事表達：語文應用 2學分 (2)外國語文：6學分。 <input checked="" type="checkbox"/> 英語溝通與表達 2學分 <input checked="" type="checkbox"/> 學術英文聽讀 2學分 <input checked="" type="checkbox"/> 學術英文說寫 2學分 3.領域素養課程：至少10學分。 (1)應修習「人文、社會、自然」三領域各1門課程，合計至少6學分。 (2)應修習「統合領域」課程至少4學分。 (3)國防教育類課程(非必修)至多採計1門為通識畢業學分，超修該類課程 <input type="checkbox"/> 可以 <input checked="" type="checkbox"/> 不可以採計為外系學分。 (4)本系隸屬工程科技學群，該學群課程至多採計1門為通識畢業學分，超修該學群課程 <input type="checkbox"/> 可以 <input checked="" type="checkbox"/> 不可以採計為外系學分。 4.超修之通識課程 <input type="checkbox"/> 可以 <input checked="" type="checkbox"/> 不可以採計為外系學分。 5.其他規定：_____		<table border="1"> <thead> <tr> <th>科目名稱</th> <th>全或半</th> <th>學分</th> </tr> </thead> <tbody> <tr><td>(10) 水文學Hydrology</td><td>半</td><td>3</td></tr> <tr><td>(11) 測量學(一)Surveying(I)</td><td>半</td><td>2</td></tr> <tr><td>(12) 測量學實習 Laboratory of Surveying</td><td>半</td><td>1</td></tr> <tr><td>(13) 測量學(二)Surveying(II)</td><td>半</td><td>2</td></tr> <tr><td>(14) 工程統計學(一)Engineering Statistics(I)</td><td>半</td><td>3</td></tr> <tr><td>(15) 材料力學 Mechanics of Materials</td><td>半</td><td>4</td></tr> <tr><td>(16) 流體力學(一)Fluid Mechanics(I)</td><td>半</td><td>3</td></tr> <tr><td>(17) 流體力學實驗 Experiment of Fluid Mechanics</td><td>半</td><td>1</td></tr> <tr><td>(18) 結構學(一)Structural Theory(I)</td><td>半</td><td>3</td></tr> <tr><td>(19) 鋼筋混凝土學 Reinforced Concrete</td><td>半</td><td>3</td></tr> <tr><td>(20) 土壤力學(一)Soil Engineering(I)</td><td>半</td><td>3</td></tr> <tr><td>(21) 土壤力學實驗 Experiment of Soil Engineering</td><td>半</td><td>1</td></tr> <tr><td>(22) 結構學(二)Structural Theory(II)</td><td>半</td><td>3</td></tr> <tr><td>(23) 結構學實習 Laboratory Test of Structures</td><td>半</td><td>1</td></tr> <tr><td>(24) 基礎工程學(一)Foundation Engineering(I)</td><td>半</td><td>3</td></tr> <tr><td>(25) 工程地質學 Engineering Geology</td><td>半</td><td>3</td></tr> <tr><td>(26) 水利工程學(一)Hydraulic Engineering(I)</td><td>半</td><td>3</td></tr> <tr><td>(27) 土木工程專題研究 Topic Study in Civil Engineering</td><td>半</td><td>2</td></tr> </tbody> </table>			科目名稱	全或半	學分	(10) 水文學Hydrology	半	3	(11) 測量學(一)Surveying(I)	半	2	(12) 測量學實習 Laboratory of Surveying	半	1	(13) 測量學(二)Surveying(II)	半	2	(14) 工程統計學(一)Engineering Statistics(I)	半	3	(15) 材料力學 Mechanics of Materials	半	4	(16) 流體力學(一)Fluid Mechanics(I)	半	3	(17) 流體力學實驗 Experiment of Fluid Mechanics	半	1	(18) 結構學(一)Structural Theory(I)	半	3	(19) 鋼筋混凝土學 Reinforced Concrete	半	3	(20) 土壤力學(一)Soil Engineering(I)	半	3	(21) 土壤力學實驗 Experiment of Soil Engineering	半	1	(22) 結構學(二)Structural Theory(II)	半	3	(23) 結構學實習 Laboratory Test of Structures	半	1	(24) 基礎工程學(一)Foundation Engineering(I)	半	3	(25) 工程地質學 Engineering Geology	半	3	(26) 水利工程學(一)Hydraulic Engineering(I)	半	3	(27) 土木工程專題研究 Topic Study in Civil Engineering	半	2
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※必修科目及畢業學分數規定，由各系依課程規劃表填列。

※如無課程或學分異動，不須每學年提送。

系(所、學位學程)承辦人：_____

系所主管簽章：_____

教授兼土木工程學系系主任 余志鵬

115年1月28日修訂

Department of Civil Engineering Graduation Requirements for Undergraduate Students Enrolled after 2026

Items	Items																																																									
<p>I. Period of Study :</p> <ol style="list-style-type: none"> 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) <p>II. Minimum graduation credits: 131 credits (excluding PE credits).</p> <p>III. University Required Courses and Credits:</p> <ol style="list-style-type: none"> 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 various 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 <ol style="list-style-type: none"> i. Core Competencies: A total of 10 disciplines, at least 3 credits. The course requirements for "Information Literacy: Programming and AI Applications" are as follows: <input type="checkbox"/> Required Credits: 1 credit (exempt for international students). <input checked="" type="checkbox"/> Exempt: If students take the course, it <input checked="" type="checkbox"/> can <input type="checkbox"/> cannot be counted toward the general education graduation credits. ii. Language Competencies: (10 credits) <ul style="list-style-type: none"> ➤ Native Language and Literature : 4 credits Narrative Expression: Language Literacy 2 credits Narrative Expression: Language Application 2 credits ➤ Foreign Language: 6 credits. <input checked="" type="checkbox"/> English Communication and Expression 2 credits <input checked="" type="checkbox"/> Academic English : Listening and Reading 2 credits <input checked="" type="checkbox"/> Academic English : Speaking and Writing 2 credits iii. Domain Competencies: at least 10 credits <ul style="list-style-type: none"> ➤ 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 <u>Engineering Technology</u>, therefore, only one course from this area will be recognized. iv. Extra credits <input type="checkbox"/> can <input checked="" type="checkbox"/> cannot be counted toward the graduation credits. <p>IV. College Required Professional Courses and Credits: Minimum <u>0</u> credits.</p> <p>V. Department Required Professional Courses and Credits: Minimum 67 credits.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Core Course Title</th> <th style="text-align: center;">Semester/Year</th> <th style="text-align: center;">Credits</th> </tr> </thead> <tbody> <tr><td>(10) Hydrology</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(11) Surveying(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">2</td></tr> <tr><td>(12) Laboratory of Surveying</td><td style="text-align: center;">S</td><td style="text-align: center;">1</td></tr> <tr><td>(13) Surveying(II)</td><td style="text-align: center;">S</td><td style="text-align: center;">2</td></tr> <tr><td>(14) Engineering Statistics(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(15) Mechanics of Materials</td><td style="text-align: center;">S</td><td style="text-align: center;">4</td></tr> <tr><td>(16) Fluid Mechanics(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(17) Experiment of Fluid Mechanics</td><td style="text-align: center;">S</td><td style="text-align: center;">1</td></tr> <tr><td>(18) Structural Theory(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(19) Reinforced Concrete</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(20) Soil Engineering(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(21) Experiment of Soil Engineering</td><td style="text-align: center;">S</td><td style="text-align: center;">1</td></tr> <tr><td>(22) Structural Theory(II)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(23) Laboratory Test of Structures</td><td style="text-align: center;">S</td><td style="text-align: center;">1</td></tr> <tr><td>(24) Foundation Engineering(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(25) Engineering Geology</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(26) Hydraulic Engineering(I)</td><td style="text-align: center;">S</td><td style="text-align: center;">3</td></tr> <tr><td>(27) Topic Study in Civil Engineering</td><td style="text-align: center;">S</td><td style="text-align: center;">2</td></tr> </tbody> </table> <p>VI. Department Professional Elective Courses and Credits: Minimum <u>36</u> credits. (Including elective courses from other departments.)</p> <p>VII. Other Regulations: The maximum number of elective courses from other departments is 9 credits.</p> <p>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.</p> <p>IX. Double Major:</p> <ol style="list-style-type: none"> 1. 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. 2. 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). <p>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.</p> <p>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 <u>at least 12 extra credits</u> as part of their graduation requirements. The additional credits and subjects are elective courses for this department.</p>	Core Course Title	Semester/Year	Credits	(10) Hydrology	S	3	(11) Surveying(I)	S	2	(12) Laboratory of Surveying	S	1	(13) Surveying(II)	S	2	(14) Engineering Statistics(I)	S	3	(15) Mechanics of Materials	S	4	(16) Fluid Mechanics(I)	S	3	(17) Experiment of Fluid Mechanics	S	1	(18) Structural Theory(I)	S	3	(19) Reinforced Concrete	S	3	(20) Soil Engineering(I)	S	3	(21) Experiment of Soil Engineering	S	1	(22) Structural Theory(II)	S	3	(23) Laboratory Test of Structures	S	1	(24) Foundation Engineering(I)	S	3	(25) Engineering Geology	S	3	(26) Hydraulic Engineering(I)	S	3	(27) Topic Study in Civil Engineering	S	2
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(6) Experiment of Engineering Materials	S	1																																																								
(7) Engineering Mechanics(I)	S	3																																																								
(8) Engineering Mathematics(I)	S	3																																																								
(9) Engineering Mathematics(II)	S	3																																																								

