

**Department of Computer Science and Engineering**  
**Graduation Requirements for Undergraduate Students Enrolled after 2025**

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<p><b>I. Period of Study :</b></p> <p>1. Minimum period of study : 4 years</p> <p>2. Can be extended for 2 more years (excluding 2 years of suspension)</p> <p><b>II. Minimum graduation credits: <u>128</u> credits (excluding PE credits).</b></p> <p><b>III. University Required Courses and Credits:</b></p> <p>1. Physical Education (PE) Course: <u>2</u> 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.</p> <p>2. English Proficiency Requirement: 0 credit.</p> <p>3. General Education : 28 credits</p> <p style="margin-left: 20px;">i. Core Competencies: at least 3 credits. International students do not need to take the “Information Literacy” course.</p> <p style="margin-left: 20px;">ii. Language Competencies: (at least 10 credits)</p> <p style="margin-left: 40px;">➤ <b>Native Language and Literature</b> : 4 credits</p> <p style="margin-left: 40px;">➤ <b>Narrative Expression: Language Literacy</b></p> <p style="margin-left: 40px;">➤ <b>Narrative Expression: Language Application</b></p> <p style="margin-left: 40px;">➤ Foreign Language: 6 credits.</p> <p style="margin-left: 40px;">■ <b>English Communication and Expression</b></p> <p style="margin-left: 40px;">■ <b>Academic English : Listening and Reading</b></p> <p style="margin-left: 40px;">■ <b>Academic English : Speaking and Writing</b></p> <p style="margin-left: 20px;">iii. Domain Competencies: at least 10 credits</p> <p style="margin-left: 40px;">➤ Humanistic Domain, Social Science Domain, and Natural Domain: at least one course in each Domain, total at least <u>6</u> credits.</p> <p style="margin-left: 40px;">➤ Integrated Domain: at least 4 credits.</p> <p style="margin-left: 40px;">➤ For National Defense Education courses, only credits of 1 course can be counted toward general education credits.</p> <p style="margin-left: 40px;">➤ Our program belongs to the area of <u>Engineering Technology</u>, therefore, only one course from this area will be recognized.</p> <p>IV. Extra credits <input type="checkbox"/> can <input checked="" type="checkbox"/> can't be counted toward the graduation credits.</p> <p><b>IV. College Required Professional Courses and Credits: 0 credits.</b></p> <p><b>V. Department Required Professional Courses and Credits: Minimum <u>55</u> credits.</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 70%;">Core Course Title</th> <th style="width: 10%;">Semester /Year</th> <th style="width: 20%;">Credits</th> </tr> </thead> <tbody> <tr><td>(1) Calculus(I)</td><td>Semester</td><td>3</td></tr> <tr><td>(2) Calculus(II)</td><td>Semester</td><td>3</td></tr> <tr><td>(3) General Physics</td><td>Semester</td><td>3</td></tr> <tr><td>(4) General Physics Lab</td><td>Semester</td><td>1</td></tr> <tr><td>(5) Discrete Mathematics</td><td>Semester</td><td>3</td></tr> <tr><td>(6) Computer Programming</td><td>Semester</td><td>3</td></tr> <tr><td>(7) Object-Oriented Programming</td><td>Semester</td><td>3</td></tr> </tbody> </table>	Core Course Title	Semester /Year	Credits	(1) Calculus(I)	Semester	3	(2) Calculus(II)	Semester	3	(3) General Physics	Semester	3	(4) General Physics Lab	Semester	1	(5) Discrete Mathematics	Semester	3	(6) Computer Programming	Semester	3	(7) Object-Oriented Programming	Semester	3	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 80%;">Core Course Title</th> <th style="width: 10%;">Semester /Year</th> <th style="width: 10%;">Credits</th> </tr> </thead> <tbody> <tr><td>(8) Probability</td><td>Semester</td><td>3</td></tr> <tr><td>(9) Logic Design</td><td>Semester</td><td>3</td></tr> <tr><td>(10) Logic Design Lab</td><td>Semester</td><td>1</td></tr> <tr><td>(11) Linear Algebra</td><td>Semester</td><td>3</td></tr> <tr><td>(12) Assembly Language and System Programming</td><td>Semester</td><td>3</td></tr> <tr><td>(13) Data Structures</td><td>Semester</td><td>3</td></tr> <tr><td>(14) Electronic Circuit</td><td>Semester</td><td>3</td></tr> <tr><td>(15) Computer Networks</td><td>Semester</td><td>3</td></tr> <tr><td>(16) Algorithms</td><td>Semester</td><td>3</td></tr> <tr><td>(17) Computer Organization</td><td>Semester</td><td>3</td></tr> <tr><td>(18) Operating Systems</td><td>Semester</td><td>3</td></tr> <tr><td>(19) Operating Systems Lab</td><td>Semester</td><td>1</td></tr> <tr><td>(20) Special Projects on Information(I)</td><td>Semester</td><td>2</td></tr> <tr><td>(21) Special Projects on Information(II)</td><td>Semester</td><td>2</td></tr> </tbody> </table> <p>The required courses listed above must be taken within this department in order to be counted toward graduation credits. However, exceptions may be granted if students submit a prior application and obtain approval due to unavoidable circumstances.</p> <p><b>VI. Department Professional Elective Courses and Credits: Minimum <u>30</u> credits.</b></p> <p style="color: red;">A maximum of 9 credits from courses offered by the Dept. of Electrical Engineering, the Bachelor Program in Electrical Engineering and Computer Science, or the College of Electrical Engineering and Computer Science.</p> <p><b>VII. Other Regulations:</b></p> <p>1. Students who are required to retake Calculus (I), Calculus (II), General Physics, or General Physics Lab and are unable to do so within this department may only retake these courses through the College of Electrical Engineering and Computer Science, the College of Science, or the College of Engineering.</p> <p>2. Special Projects on Information (III) may be counted as either Special Projects on Information(I) or Special Projects on Information (II).</p> <p style="color: red;">3. The courses list below can't be counted toward the graduation credits:</p> <p style="margin-left: 20px; color: red;">➤ Dept. of Electrical Engineering: Introduction to Computer Science, Electrical Circuits (I), Electronics (I), Signals and Systems.</p> <p style="margin-left: 20px; color: red;">➤ Dept. of Applied Mathematics: Introduction to Computer Science, Introduction to Probability, Computer Architecture.</p> <p style="margin-left: 20px; color: red;">➤ Dept. of Management Information Systems (including the College of Management): Introduction to Computer Science, Introduction to Internet, Unix Operating Systems and Administration, Database Management System.</p>	Core Course Title	Semester /Year	Credits	(8) Probability	Semester	3	(9) Logic Design	Semester	3	(10) Logic Design Lab	Semester	1	(11) Linear Algebra	Semester	3	(12) Assembly Language and System Programming	Semester	3	(13) Data Structures	Semester	3	(14) Electronic Circuit	Semester	3	(15) Computer Networks	Semester	3	(16) Algorithms	Semester	3	(17) Computer Organization	Semester	3	(18) Operating Systems	Semester	3	(19) Operating Systems Lab	Semester	1	(20) Special Projects on Information(I)	Semester	2	(21) Special Projects on Information(II)	Semester	2
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**VIII. Minor Degree:**

For more details, please refer to The NCHU CSE Department Regulations on Students Pursuing a Minor Degree.

**IX. Double Major:**

For more details, please refer to The NCHU CSE Department Regulations on Students Pursuing a Double Major.

**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.

For more details, please see the bulletin of Curriculum Division website.

- 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.

2025/1/22

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：