

## Department of Environmental Engineering Graduation Requirements for Master Students Enrolled **after** 2025

Items	Notes																
I. Period of study: 1. Minimum years of period of study: 1 year 2. Maximum years of period of study: 4 years (excluding 2 years of suspension)	Part-time students may apply for a one-year extension of study.																
II. Minimum credits for graduation: <u>30</u> credits (physical education and citizen national defense education are not included), including: 1. Courses: minimum of required credits: <u>6</u> ; minimum of elective credits: <u>18</u> . 2. Master Thesis: <u>6</u> credits	Students are considered to have passed both academic and conduct assessment with the grade of 70 or above. Students who fail in conduct will be dismissed. The average of academic grades comprises 50 % of the overall graduation grades. *Only English-taught courses will be recognized as graduation credits. *Required credits+ Elective credits + Master Thesis = minimum credits for graduation.																
III. Transfer credits: maximum : <u>12</u> credits	According to NCHU Regulation for Credits Exemption, students should apply for credits exemption prior to the deadline of course add/drop.																
IV. Undergraduate credits from discipline-related courses may be counted as graduation credits. <u>0</u> credits	According to NCHU Regulation on Course Registration, the number of credits students should take is determined by their advisor or the department chairperson. Students who need to take undergraduate courses for research purposes, besides the credits for graduation, may take undergraduate courses with the consent of the instructor. The course may be counted as graduation credits after obtaining the approval form the advisor, and relevant department committee. Nevertheless, the maximum for such undergraduate credits: <u>6</u> credits. <b>If graduate students take advanced courses as defined by the NCHU Regulations for Curriculum Planning and Course Opening, a maximum of 12 credits can be counted.</b>																
V. Recognition of credits from other departments/graduate institutes: maximum <u>6</u> credits	Including inter-university credits.																
VI. Core courses and credits: <u>12</u> credits <table border="1" data-bbox="73 1182 715 1451"> <thead> <tr> <th>Core Course Title</th><th>Credits</th></tr> </thead> <tbody> <tr><td>1. Physical Principles in Environmental</td><td>3</td></tr> <tr><td>2. Chemical Principles in Environmental</td><td>3</td></tr> <tr><td>3. Biological Principles in Environmental</td><td>3</td></tr> <tr><td>4. Numerical Methods in Environmental</td><td>3</td></tr> <tr><td>5. Seminar in Environmental Engineering (I)</td><td>0</td></tr> <tr><td>6. Seminar in Environmental Engineering (II)</td><td>0</td></tr> <tr><td>7. Thesis</td><td>6</td></tr> </tbody> </table>	Core Course Title	Credits	1. Physical Principles in Environmental	3	2. Chemical Principles in Environmental	3	3. Biological Principles in Environmental	3	4. Numerical Methods in Environmental	3	5. Seminar in Environmental Engineering (I)	0	6. Seminar in Environmental Engineering (II)	0	7. Thesis	6	1. Students who fail the core courses should retake core courses. 2. Students who don't complete core courses cannot graduate.  * Students are required to take at least two of the listed "Core Courses". * First-year student should take "Seminar in Environmental Engineering (I)" * Second-year student should take "Seminar in Environmental Engineering (II)"
Core Course Title	Credits																
1. Physical Principles in Environmental	3																
2. Chemical Principles in Environmental	3																
3. Biological Principles in Environmental	3																
4. Numerical Methods in Environmental	3																
5. Seminar in Environmental Engineering (I)	0																
6. Seminar in Environmental Engineering (II)	0																
7. Thesis	6																
VII. Prerequisite Courses (not included in graduation credits): <u>6</u> credits  <table border="1" data-bbox="73 1574 715 1771"> <thead> <tr> <th>Core Course Title</th><th>Credits</th></tr> </thead> <tbody> <tr><td>1. Water Supply Engineering</td><td>3</td></tr> <tr><td>2. Wastewater Engineering</td><td>3</td></tr> <tr><td>3. Solid Waste</td><td>3</td></tr> <tr><td>4. Air Pollution</td><td>3</td></tr> </tbody> </table>	Core Course Title	Credits	1. Water Supply Engineering	3	2. Wastewater Engineering	3	3. Solid Waste	3	4. Air Pollution	3	*Admitted students who hold the equivalency qualifications for graduate school entrance should take any two of the listed "Prerequisite Courses".  According to NCHU Master's Program Regulations, students should take certain prerequisite courses at the undergraduate level, which are decided by advisors and chairperson. Prerequisite credits will not be counted as graduation credits. Students are not eligible to attend the thesis defense until they complete the prerequisite courses.						
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1. Water Supply Engineering	3																
2. Wastewater Engineering	3																
3. Solid Waste	3																
4. Air Pollution	3																

<p>VIII. Thesis Defense:</p> <ol style="list-style-type: none"> <li>1. Students should discuss with their advisors prior to the end of first academic year.</li> <li>2. Students must get the certification of "Education on Academic and Research Ethics" course before the application of the oral defense.</li> <li>3. Students who complete minimum of enrollment, fulfill graduation credits, and complete the draft of thesis should apply for oral defense at least 20 days prior to the oral defense. The passing grade for defense is 70.</li> </ol>	<p>Oral defense comprises 50% of graduation grade. Students must learn "Education on Academic and Research Ethics" course and take the exam to obtain the certificate from the Center for Taiwan Academic Research Ethics Education website. Each department may additionally require the completion of professional academic research ethics education workshops, which will be implemented according to the regulations established by each department. Master thesis should be written in English and oral defense should be carried out in English. Students who fail oral defense within enrollment should retake it next semester or year. If students who retake oral defense fail again, their study will be terminated. The grade of those who pass retaking the oral defense is uniformly calculated at 70.</p>
<p>IX. Others: Graduation English Proficiency Requirement: (None, if not specified by the department) <b>None</b></p>	<p>According to Article 2 of the "National Chung Hsing University Regulations on the Graduation English Proficiency Requirements for Students," departments are authorized to establish their own English proficiency graduation standards for graduate students. (Approved at the 57th Academic Affairs Meeting on March 26, 2009)</p>

Coordinator 系(所、學位學程)承辦人

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Chairperson 系所主管簽

林伯雄

Date: 108 年 5 月 8 日