



**MASTER'S
DEGREE**

INTERNATIONAL STUDENTS ORIENTATION

GRADUATION REQUIREMENTS

- 24 credits (except CEM, 27 credits)
- 4 seminars
- Thesis



REQUIRED COURSES

Geotechnical Engineering	Structural Engineering	Hydraulic Engineering
<p>Must meet minimum of 18 credits in 3 areas:</p> <p>1. Common Area (min 6 credits): Constitutive Law of Geomaterials, Numerical Methods in Geotechnical Engineering, Geotechnical Reliability Analysis and Reliability-based Design, Geotechnical Engineering Practice</p> <p>2. Area of Soil (min. 9 credits): Intermediate Soil Mechanics, Soil Dynamics and Foundation Vibration, Geotechnical Earthquake Engineering, Soil Behavior, Application of Geosynthetics, Foundation Design and Construction (I)</p> <p>3. Area of Geology (min. 3 credits): Rock Mechanics, Advanced Engineering Geology, Tunnel Engineering</p>	<p>Any four (4) of the following core courses:</p> <ul style="list-style-type: none">• CIE7024 Advanced Structural Theory• CIE7016 Structural Dynamics• CIE7017 Method of Finite Elements• CE 7015 Theory of Plasticity• CIE7170 Advanced Concrete Theory• CIE5005 Theory of Elasticity (I)	<ul style="list-style-type: none">• CIE5011 Open Channel Hydraulics• CIE7033 Advanced Hydrologic Analysis

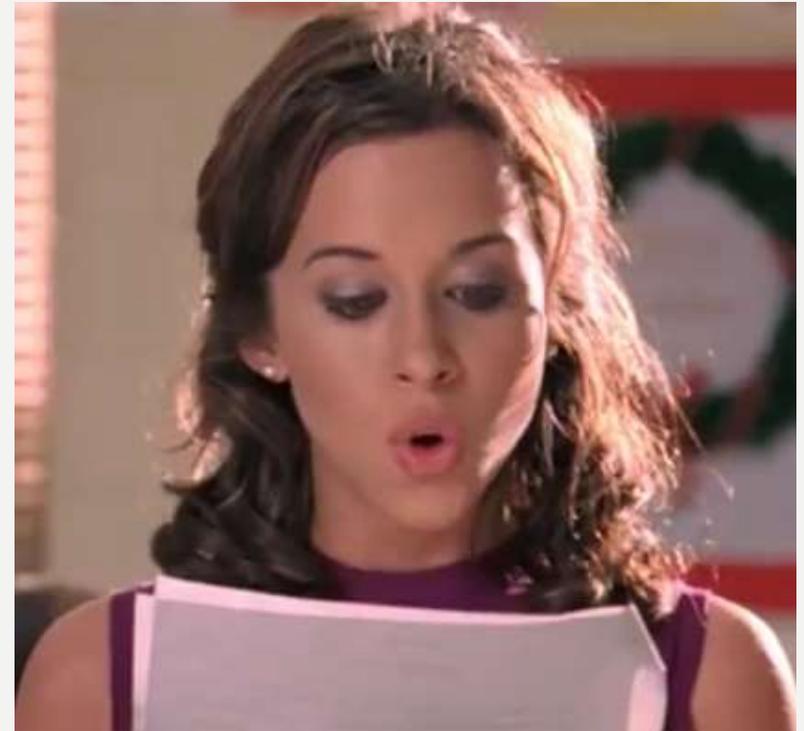
REQUIRED COURSES

Transportation Engineering	Construction Engineering and Management	Computer-Aided Engineering	Surveying and Geospatial Engineering
<p>At least four (4) courses conducted by four (4) different professors within the transportation division should be taken.</p> <p>If a professor is on leave/vacation or is temporarily appointed to government agency, he/she can appoint the student to take courses from other professors.</p>	<ul style="list-style-type: none"> • CIE7052 Project Management for Construction • CIE7081 Independent Study on Construction Management <p>At least 18 credits should be from the Construction Engineering and Management Division.</p>	<p>Take either of the following English classes:</p> <ul style="list-style-type: none"> • CIE7109 Fundamentals of English Writing • CIE7110 Academic English Writing <p>To meet credit requirements for graduation, the following courses may be taken:</p> <ul style="list-style-type: none"> • CIE7192 BIM Implementation Practice • CIE7017 Method of Finite Elements • CIE7148 Design Patterns and Software Development • CIE7191 Visualization in Engineering 	<p>None</p>

OTHER REQUIREMENTS

CAE DIVISION

- Go through a pre-oral defense; approval from half of the professors in the division must be obtained before proceeding to the final defense.
- Engage in department activities; contributions to the department must be shared during the pre-oral defense, as it is a factor for the pre-oral defense grade.



OTHER REQUIREMENTS

CEM DIVISION

- Go through a pre-oral defense; approval from half of the professors in the division must be obtained before proceeding to the final defense.
- Engage in department activities; contributions to the department must be shared during the pre-oral defense, as it is a factor for the pre-oral defense grade.
- At least 1 paper must be published in any of the following journals or conferences:
 - Journal of the Chinese Institute of Civil & Hydraulic Engineering (中國土木水利工程學刊)
 - Journal of Architecture (建築學報)
 - National Taiwan University Engineering Journal (台大工程學刊)
 - Seminar on Construction Management Research (營建管理研究成果研討會)
 - Seminar on Construction Research (建築研究成果研討會)
 - Seminar on the Application of Computer Science in Civil Engineering (電算機在土木水利應用研討會等)

ADDITIONAL TIPS

- Select your advisor before the semester starts
- Discuss with your advisor before taking courses
- Balance your coursework
- Get to know your labmates





THANK YOU FOR LISTENING!