

## Catalog of Postgraduate Programs and Curricula

### Curriculum for MPhil(EVNG) (For students admitted in 2010-11)

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#### Program Requirements for Master of Philosophy (MPhil) Program in Environmental Engineering

##### *Credits*

1. To complete **at least 15 credits** of approved coursework taken from more than one department, with at least 9 credits from courses offered by the School of Engineering as listed below:

CENG	521	<i>Advanced Separation Processes</i>
CENG	531	<i>Measurements of Air Pollutants</i>
CENG	532	<i>Water Quality Assessment</i>
CENG	565	<i>Environmental Biotechnology</i>
CENG	576	<i>Advanced Physio-Chemical Treatment Processes</i>
CENG	584	<i>Nanomaterials for Chemical Engineering Applications</i>
CIVL	343	<i>Environmental Impact Assessment</i>
CIVL	346	<i>Process Design of Environmental Engineering Facilities</i>
CIVL	347	<i>Air Quality Control and Management</i>
CIVL	348	<i>Air Quality Modeling and Analysis</i>
CIVL	352	<i>Water Resources Planning and Management</i>
CIVL	541	<i>Physical-Chemical Water/Wastewater Treatment</i>
CIVL	542	<i>Biological Waste Treatment</i>
CIVL	543	<i>Aquatic Chemistry</i>
CIVL	545	<i>Hazardous Waste Treatment and Site Remediation</i>
CIVL	546	<i>Landfill Engineering and Design</i>
CIVL	547	<i>Industrial Wastewater Treatment</i>
CIVL	548	<i>Pollutant Transport in Soils and Groundwater</i>
MECH	304	<i>Noise Control</i>
MECH	321	<i>Air Pollution Control</i>
MECH	335	<i>Indoor Air Quality in Buildings</i>
MECH	521	<i>Fluid Dynamics</i>
MECH	526	<i>Air Pollution Meteorology</i>

2. Subject to approval of the supervisor and the Program Director, students may take the following courses offered by other departments outside the School of Engineering, to fulfill the program requirements:

ENVR	521	<i>Environmental Microbiology</i>
ENVR	605	<i>Introduction to Oceanography</i>
EVSM	522	<i>Advanced Environmental Chemistry</i>
SOSC	562	<i>Sustainable Development</i>

3. Students who do not have sufficient exposure to environmental courses need to take CIVL 242 *Water and Wastewater Engineering* and/or MECH 321 *Air Pollution Control* or equivalent courses as advised by the EVNG Program Committee.

### ***Postgraduate Seminar***

1. To attend EVNG 680 *Environmental Engineering Seminar* every semester; and
2. To present at least one seminar during their program of studies.

### ***Language Requirements***

To pass LANG 501 *Postgraduate English for Academic Purposes*.

- (a) *The 1 credit earned from LANG 501 cannot be counted toward the credit requirements.*
- (b) *Exemption from taking LANG 501 may be granted by the Program Director.*

### ***Research and MPhil Thesis Examination***

1. To conduct research and enroll in EVNG 699 *MPhil Thesis Research*; and
2. To defend the MPhil thesis successfully.