Catalog of Postgraduate Programs and Curricula

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

Program Requirements for Doctor of Philosophy (PhD) 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	Advanced Separation Processes
CENG	531	Measurements of Air Pollutants
CENG	532	Water Quality Assessment
CENG	565	Environmental Biotechnology
CENG	576	Advanced Physio-Chemical Treatment Processes
CENG	584	Nanomaterials for Chemical Engineering Applications
CIVL	343	Environmental Impact Assessment
CIVL	346	Process Design of Environmental Engineering Facilities
CIVL	347	Air Quality Control and Management
CIVL	348	Air Quality Modeling and Analysis
CIVL	352	Water Resources Planning and Management
CIVL	541	Physical-Chemical Water/Wastewater Treatment
CIVL	542	Biological Waste Treatment
CIVL	543	Aquatic Chemistry
CIVL	545	Hazardous Waste Treatment and Site Remediation
CIVL	546	Landfill Engineering and Design
CIVL	547	Industrial Wastewater Treatment
CIVL	548	Pollutant Transport in Soils and Groundwater
MECH	304	Noise Control
MECH	321	Air Pollution Control
MECH	335	Indoor Air Quality in Buildings
MECH	521	Fluid Dynamics
MECH	526	Air Pollution Meteorology
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2. Subject to the approval of the supervisors and the Program Directors, students may take the following courses offered by other departments outside the School of Engineering to fulfill the program requirements:

ENVR	521	Environmental Miciobiology
ENVR	605	Introduction to Oceanography
EVSM	522	Advanced Environmental Chemistry
SOSC	562	Sustainable Development

- 3. Students who are admitted to the program without a master's degree may be required to take additional credits to fulfill the program requirements.
- 4. Students with a master's degree in an Environmental Engineering or a closely related field may be granted credit transfer subject to approval from the Program Director.

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Postgraduate Seminar

- To attend EVNG 680 Environmental Engineering Seminar every semester; and 1.
- 2. To present at least 2 seminars during the 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.

Qualifying Examination

To pass a qualifying examination within the first 18 months of the PhD studies.

Research and PhD Thesis Examination

- 1. To conduct research and enroll in EVNG 799 PhD Thesis Research; and
- 2. To defend the PhD thesis successfully.

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