DOCTOR OF PHILOSOPHY IN ENVIRONMENTAL ENGINEERING

The doctoral degree in environmental engineering is awarded upon demonstration of an ability to make substantial creative contributions to knowledge in environmental engineering. The full-time doctoral program generally consists of at least two complete years of academic preparation, followed by at least one year of full-time research in residence at the university. The coursework must include 15 credit hours of core environmental engineering courses listed in the section describing the Master of Science in Environmental Engineering.

To be admitted to candidacy, students must pass a qualifying examination, which involves an oral presentation of two research papers selected by the student's adviser. The qualifying examination is administered by a research committee approved by the chairperson. The exam is diagnostic in nature. The results of the exam will determine the student's potential for success in the Ph.D. program. The department may waive this requirement for students who hold an M.S. degree from Illinois Institute of Technology in the same field. This examination should be completed within three semesters of entry into the program.

The candidate should pass the comprehensive examination at least one year prior to the date of graduation. The comprehensive examination is an oral examination that is administered by a research committee approved by the chairperson. The candidate presents the research proposal and answers questions of a general professional nature. The research project must be in harmony with the interests of the faculty and with the facilities of the department.

Although doctoral research can begin after admission to the Ph.D. program, the major portion of the research should take place after the comprehensive examination is passed and the research proposal is approved by the research committee. Research will be conducted under the supervision of a full-time faculty member and students should work to involve all members of their research committee.

The preliminary thesis draft must meet the approval of all members of the research committee. An oral examination in defense of the thesis is given as an open university seminar. The thesis defense must meet with the approval of the research committee; if it does not, the committee has the authority to determine whether or not to grant a re-examination.

Curriculum

Requirement	Credits
Minimum Credits Required	84
Maximum Transfer Credit	42

Code	Title	Credit Hours
Master of Science transfer coursework		(32)
Maximum amount eligible for M.S. degree transfer is 32 credit hours		32
Required Courses		(15)
CAE 523	Statistical Analysis Engg Data	3
ENVE 501	Environmental Chemistry	3
ENVE 506	Chemodynamics	3
ENVE 542	Physcheml Prcs in Envir Eng	3
ENVE 580	Hazardous Waste Engineering	3
General Electives		(1-13)
Select 1-13 credit hours as needed to achieve total of 84 credit hours		1-13
Ph.D. Research		(24-36)
ENVE 691	Research and Thesis Ph.D.	24-36