

ARCHITECTURAL ENGINEERING

Degree Requirements

All students in the M.Eng., M.S., and Ph.D. programs must also attend a minimum of 10 approved lectures during their degree program.

M.Eng. in Architectural Engineering

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

The M.Eng. in Architectural Engineering degree is a non-thesis professional master's degree. Candidates for the M.Eng. degree are required to complete 30 credits of course work. Each student's program can be tailored to their career goals and prior academic history, and must include a minimum of 18 credits at the 500 or 800-level, with at least 6 at the 500-level. Each student must also complete a capstone project, supervised by a member of the Graduate Faculty, while enrolled in AE 596. The capstone project requires students to work individually or within a group on an aspect of architectural engineering of their choosing. The project should demonstrate the ability of the student to integrate and apply concepts and techniques learned in their program's courses.

M.S. in Architectural Engineering

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

The M.S. degree consists of a minimum of 30 credits: 24 credits of course work and 6-credits of thesis research through either AE 600 or AE 610. A minimum of 12 of the course credits must be completed at the 500 level. A student's program of courses in the M.S. program is developed in cooperation with the student's academic adviser. The M.S. thesis is presented in a public forum and must be approved by the student's graduate committee. Additional details are provided in the AE Graduate Handbook

Ph.D. in Architectural Engineering

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

For the Ph.D. degree, a dissertation that displays a student's ability to conduct high-quality original scholarly work is required of all Ph.D. students. The dissertation must be accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School. Each student accepted into the Ph.D. degree program must pass the Ph.D. Qualifying Examination, which requires students to display an understanding of basic material across a selected set of topic areas. This examination must be taken no later than the beginning of the student's second year in the program. Each Ph.D. student must also pass an English Proficiency Examination that is administered by the department, typically during the first semester. The English Proficiency Examination must be passed before scheduling the Comprehensive Examination.

The student's program of courses is developed in cooperation with the student's academic advisor and their Ph.D. committee, and must consist of at least 42 course credits beyond the bachelor's degree. At or near the completion of the coursework, the Ph.D. student must pass

an oral comprehensive examination that involves the presentation of a proposal on their dissertation topic followed by questioning on topics related to their PhD program by their PhD committee. Following the comprehensive exam, continuous registration is required for all Ph.D. graduate students until the dissertation is accepted by the doctoral committee and the final oral examination is passed. Each student presents a comprehensive dissertation proposal to their committee prior to starting their dissertation research and must present the results of this research in a final oral examination.