The Doctor of Philosophy in Engineering and Applied Science is an interdisciplinary, integrative degree involving faculty from the College of Engineering and the College of Sciences. This program is particularly suited to the emerging trends in the scientific and engineering communities.

**ADMISSIONS**

Admissions to the doctoral program is based on reasonable evidence that the applicant will prove capable of scholarly research on a broad intellectual foundation. All students enrolling in the program must have a Master’s degree from an accredited college or university in engineering, physics, mathematics, geophysics, computer science, or closely related field, or be willing to complete course work required in an existing Master’s program in one of the participating departments at UNO while pursuing the Ph.D.. Admission decisions will be based primarily on grade-point average, Graduate Record Examination scores, and letters of recommendation. Foreign applicants (non-English speaking countries) must also have a satisfactory TOEFL score.

**DEGREE REQUIREMENTS**

Students enrolled in the program must satisfy all general requirements of the UNO Graduate School. Following are the formal procedural requirements for students to receive the Ph.D. Degree in Engineering and Applied Science.

Ph.D. candidates must complete a minimum of 51 semester credit hours of graduate course work in an approved program beyond the Bachelor’s degree, not including dissertation writing. The credit hours may include up to 30 semester hour credits obtained in a Master’s degree program, if the area of the Master’s degree is relevant to the doctoral program. Up to six of these 30 credits may be for the Master’s thesis research. In addition, a doctoral dissertation based on the results of the original research under the guidance of a faculty committee and defended in a public examination is a requirement of the doctoral program. At least 30 semester hours of dissertation credit must be earned.

Departments participating in the program are Civil and Environmental Engineering, Electrical Engineering, Mechanical Engineering, Naval Architecture and Marine Engineering, Computer Science, Geology and Geophysics, Mathematics, and Physics. The student’s dissertation advisory committee will consist of at least five members. No more than three can be from any one department. There must be at least one committee member from each of the Colleges of Engineering and Sciences. Program Qualification is administered by the department of the principal advisor(s). It is based on material in a typical departmentalized master’s degree program, or equivalent. Courses are chosen with the consent of the dissertation advisory committee. The committee shall consider the interdisciplinary nature of the program when they approve the courses. A minimum of nine credits (three courses) must be taken in each college. A General (comprehensive) Examination will be administered by the dissertation advisory committee. The examination will be based on material in the student’s program of study. After passing the General Examination the Ph.D. student is expected to write a dissertation prospectus and defend it before the dissertation advisory committee. After a successful defense and committee approval of the prospectus the student may pursue research leading to the dissertation. (The student may register for a maximum of 12 dissertation credits before successful defense and approval of the prospectus provided that Program Qualification has been successfully completed.) The dissertation should reflect the interdisciplinary nature of the program. There must be a final public defense of the dissertation administered by the dissertation advisory committee.

**FINANCIAL AID**

Teaching and research assistantships are available to qualified students on a competitive basis.