**DOCTOR OF ENGINEERING IN ENGINEERING**

The Doctor of Engineering (DEng) program has as its objective the education of men and women to function at the highest levels of the engineering profession, with emphasis on solving problems which arise in the use of technology to benefit society at large. Since these problems frequently have a societal impact which is non-technical in nature and since technological advances are implemented through business and industry, the Doctor of Engineering program seeks to couple understanding of the characteristics of social and business institutions with high competence in solving engineering problems.

Following entry into the Doctor of Engineering program, students will complete a minimal 36-semester-credit-hour course of study prior to a one calendar year (4 credit hours per semester) internship in which they will extend their education in a practice-oriented environment such as an industrial organization. The Doctor of Engineering program is administered by the College of Engineering with the Office of Graduate and Professional Studies.

The final oral/written examination for the Doctor of Engineering degree is administered by the student’s advisory committee, as approved by the College of Engineering and the Office of Graduate and Professional Studies. Additional information can be obtained from the Associate Dean for Graduate Programs and/or the Director of Interdisciplinary Engineering Programs in the College of Engineering.

**Admission**

An individual possessing a minimum of an ABET-accredited bachelor’s degree in engineering or the equivalent may apply for program admission. A person applying with only a bachelor's degree must have a grade point average of at least 3.00/4.00. An individual applying with a master's degree in engineering must have a grade point average of at least 3.25 for his/her overall graduate studies. To be admitted to the Doctor of Engineering program by the College of Engineering, an applicant must complete the appropriate application form, provide transcripts of all academic work taken beyond the secondary school level, prepare a 300-word essay dealing with the applicant’s motivation for seeking admission to the program, be interviewed by the admissions subcommittee of the Doctor of Engineering program committee, and be approved by the College of Engineering. A student is required to pass the oral and written examinations associated with the Doctor of Engineering qualifying examination described in “Examinations.”

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**Student’s Advisory Committee**

After receiving admission to the Doctor of Engineering program, the student will consult with the head of his or her administrative department concerning appointment of the chair of the advisory committee. The student’s advisory committee will consist of not fewer than four members of the graduate faculty representative of the student’s several fields of study. One member of the committee must have an appointment to a department other than the student’s administrative department.

The student’s internship supervisor, a practicing engineer, also is a member of the advisory committee. The chair, in consultation with the student, will select the remainder of the advisory committee. The chair will notify the tentative members of the advisory committee, giving the student’s name and field of study, requesting that they consider serving on the advisory committee. The student will interview each prospective committee member to determine whether he or she will accept the assignment.

The student’s advisory committee has the responsibility for guiding and directing the entire academic and internship programs of the student and for initiating all actions concerning the student. The chair of the advisory committee, who usually has immediate supervision of the student’s program, has the responsibility for calling required meetings of the advisory committee and calling meetings at any other time considered desirable.

The duties of the advisory committee include responsibility for the proposed degree program, the Doctor of Engineering qualifying examination (written and oral), the technical adequacy of the internship program, the qualifications of the student to embark on the internship, the internship report, and the final examination. In addition, the advisory committee, as a group and as individual members, is responsible for counseling the student on academic matters, and, in the case of academic deficiency, initiating recommendations to the Dean of the College of Engineering and the Associate Provost for Graduate and Professional Studies.

**Degree Plan**

The student’s advisory committee will evaluate the student’s previous education and degree objectives. The committee, in consultation with the student, will develop a proposed degree plan which will constitute the basic academic requirements for the degree. The degree plan must be filed with the Office of Graduate and Professional Studies following the deadline imposed by the student’s college, and no later than 90 days prior to the preliminary examination. The degree plan should be submitted through the online Document Processing Submission System located on the website [http://ogsdpss.tamu.edu](http://ogsdpss.tamu.edu).

The graduate portion of the proposed degree plan will include a minimum of 96 semester credit hours. Of these, 80 semester credit hours of coursework are required; the Professional Internship (see section on “Internship”) will earn 4 semester credit hours per semester and per summer term.

The 80 semester credit hours of graduate coursework shall include a minimum of 20 semester credit hours of required core coursework, 12 semester credit hours of elective professional development courses, 32 semester credit hours of department-oriented graduate level courses, 12 semester credit hours of engineering design courses and 4 semester credit hours of professional development seminar.

Additional coursework may be added by petition to the approved degree plan by the student’s advisory committee if such additional coursework is deemed necessary to correct deficiencies in the student’s academic preparation. No changes can be made to the degree plan once the student’s Request for Final Examination or Request for Final Examination
Exemption is approved by the Office of Graduate and Professional Studies.

For non-distance degree programs, no more than four courses may be taken by distance education without approval of OGAPS and no more than 50 percent of the non-research credit hours required for the program may be completed through distance education courses.

To receive a graduate degree from Texas A&M University, students must earn one-third or more of the credits through the institution’s own direct instruction. This limitation also applies to joint degree programs.

Transfer of Credit

Courses for which transfer credits are sought must have been completed with a grade of B or greater and must be approved by the student’s advisory committee and the Office of Graduate and Professional Studies. These courses must not have been used previously for another degree. Except for officially approved joint degree programs with other Texas A&M University System institutions, credit for thesis or dissertation research or the equivalent is not transferable. Credit for “internship” coursework in any form is not transferable. Courses taken in residence at an accredited U.S. institution or approved international institution with a final grade of B or greater will be considered for transfer credit if, at the time the courses were completed, the courses would be accepted for credit toward a similar degree for a student in degree-seeking status at the host institution. Credit for coursework taken by extension is not transferable. Coursework in which no formal grades are given or in which grades other than letter grades (A or B) are earned (for example, CR, P, S, U, H, etc.) is not accepted for transfer credit. Credit for coursework submitted for transfer from any college or university must be shown in semester credit hours, or equated to semester credit hours.

Courses used toward a degree at another institution may not be applied for graduate credit. If the course to be transferred was taken prior to the conferral of a degree at the transfer institution, a letter from the Registrar at that institution stating that the course was not applied for credit toward the degree must be submitted to the Office of Graduate and Professional Studies.

Grades for courses completed at other institutions are not included in computing the GPR. An official transcript from the university at which transfer courses are taken must be sent directly to the Office of Admissions.

Final Examination

A student admitted to the program is required to pass a comprehensive written and oral examination called the Doctor of Engineering Qualifying Examination. It will be administered when semester credit hours equivalent to the number required for a Master of Engineering degree have been accumulated. An individual holding a master’s degree when he/she enters the Doctor of Engineering program will be expected to take the Doctor of Engineering Qualifying Examination during his/her first semester of enrollment. The examination determines whether or not the student is prepared to continue study toward the Doctor of Engineering degree. A student who fails the Qualifying Examination may, with the approval of the advisory committee, retake the examination once. The second examination will be administered after a suitable period of preparation, normally not less than six months, upon the recommendation of the advisory committee.

The student’s major department and advisory committee may require departmental, cumulative or other types of examinations at any time deemed desirable. These examinations are entirely at the discretion of the department and the student’s advisory committee. For instance, these examinations may be used for determining the technical depth and breadth required for the internship project. The candidate for the degree of Doctor of Engineering must pass a final oral examination in the final semester following the internship. The student is allowed only one opportunity to take the final examination. This exam will include presentation of results of internship work. The student’s advisory committee, as finally constituted, will conduct this examination, which will include the internship experience and closely allied topics as well as the broad field of the candidate’s training. A positive vote by all members of the graduate committee with at most one dissension is required to pass a student on his or her exam. A department can have a stricter requirement provided there is consistency within all degree programs within a department. Persons other than members of the graduate faculty may, with mutual consent of the candidate and the major professor, attend final examinations for advanced degrees. Upon completion of the questioning of the candidate, all visitors must excuse themselves from the proceedings. The advisory committee will submit its recommendations through the Dean of Engineering to the Office of Graduate and Professional Studies regarding the acceptability of the candidate for the doctoral degree.

If the chair of a student’s advisory committee voluntarily leaves the University and the student wants the chair to continue to serve in this role, the student is responsible for securing a current member of the University Graduate Faculty, from her/his academic program and located on the respective Texas A&M University campus, to serve as the co-chair of the committee. If the committee chair is on an approved leave of absence, s/he can remain as chair without a co-chair for up to one year with written approval of the Department Head or chair of the intercollegiate faculty. Extensions beyond the one year period can be granted with additional approval of the Dean.

Record of Study

A record of study, which usually is a report of the student’s internship experiences, must be prepared in accordance with guidelines issued by the Doctor of Engineering program committee. By deadlines announced each semester, the candidate must submit to the Office of the Dean of Engineering one copy of the record of study in final form. The suggestions and corrections of the members of the advisory committee must be incorporated, and the report must bear the signature of the department head and the members of the student’s advisory committee. The record of study must be the original work of the candidate. This record of study must also be approved by the Office of Graduate and Professional Studies as in the case of a PhD dissertation.

Guidelines for the preparation of the record of study are available in the Thesis Manual, which is available online at http://ogaps.tamu.edu/. After successful defense and approval by the student’s advisory committee and the head of the student’s major department (or chair of the Intercollegiate Faculty, if appropriate), a student must submit his/her record of study in electronic format as a single PDF file. The PDF file must be uploaded to the website at http://ogaps.tamu.edu/. Additionally, a signed approval form must be brought or mailed to the Office of Graduate and Professional Studies. Both the PDF file and the signed approval form are required by the deadline.

Except as noted in the sections above, the requirements for the Doctor of Engineering degree are identical to those for the Doctor of Philosophy.
Deadlines for submitting are announced each semester or summer term in the Office of Graduate and Professional Studies Calendar (see Time Limit statement). These dates also can be accessed via the website http://ogaps.tamu.edu/.

Before a student can be “cleared” by Thesis and Dissertation Services, a processing fee must be paid through Student Business Services. This processing fee is for the thesis/dissertation services provided. After commencement, dissertations are digitally stored and made available through the Texas A&M Libraries.

A record of study that is deemed unacceptable by the Office of Graduate and Professional Studies because of excessive corrections will be returned to the student’s department head. The manuscript must be resubmitted as a new document, and the entire review process must begin anew. All original submittal deadlines must be met during the resubmittal process to graduate.

Additional Requirements

Residence
A student who enters the DEng program with baccalaureate degrees must spend two academic years in resident study at Texas A&M University. A student who holds a master’s degree when he/she enters the program must spend one academic year in resident study. In this context, an academic year is defined as two regular semesters, two 10-week summer semesters or a regular semester and a 10-week summer semester. To satisfy the residence requirement, the student must complete a minimum of 9 credit hours per semester or 10-week summer semester in resident study at Texas A&M University for the required period.

Students who are employed full-time while completing their degree may fulfill total residence requirements by completion of less-than-full time course loads each semester. In order to be considered for this, the student is required to submit a Petition for Waivers and Exceptions along with verification of his/her employment to the Office of Graduate and Professional Studies.

Continuous Registration
A student in a program leading to a Doctor of Engineering who has completed all coursework on his/her degree plan other than 684 (Internship) is required to be in continuous registration until all requirements for the degree have been completed. See Continuous Registration Requirements (http://catalog.tamu.edu/graduate/academic-expectations-general-degree-requirements/registration-academic-status/). However, colleges or departments may have additional or higher requirements.

Scholarship
To remain in good standing, a student admitted to the Doctor of Engineering program must maintain a GPR of 3.250 during his/her graduate studies.

Internship or Practicum
As part of the degree requirements after completing courses on the approved degree plan (except ENGR 684), each student will spend a minimum of one calendar year working under the supervision of a practicing engineer in industry, business or government. The objectives of the internship are two-fold:

1. to enable the student to demonstrate the ability to apply both knowledge and technical education by making an identifiable contribution in an area of practical concern to the organization or industry in which the internship is served, and
2. to enable the student to function in a non-academic environment in a position in which he or she will become aware of the organizational approach to problems, in addition to those of traditional engineering design or analysis.

During the internship phase of the program, the student must be continuously enrolled in the University.

The nature of the internship experience will be determined by mutual consent among the student, the advisory committee and the supervising organization prior to commencement of the internship period. It is expected that the internship experience will be at a level in the organization which will enable the student to deal with broadly based problems affecting more than one facet of the organization, rather than a single narrow or specific technical problem. The student is responsible for identifying and arranging a suitable internship. Specific arrangements for the internship will be made through the student’s major department, and an internship agreement must be negotiated between the student and the advisory committee, and the internship supervisor and appropriate representatives of the industrial organization. Copies of all agreements must be approved by the College of Engineering.

99-Hour Cap on Doctoral Degrees
In Texas, public colleges and universities are funded by the state according to the number of students enrolled. In accordance with legislation passed by the Texas Legislature, the number of hours for which state universities may receive subvention funding at the doctoral rate for any individual is limited to 99 hours. Texas A&M University and other universities will not receive subvention for hours in excess of the limit.

Institutions of higher education are allowed to charge the equivalent of nonresident tuition to a resident doctoral student who has enrolled in 100 or more semester credit hours of doctoral coursework.

A doctoral student at Texas A&M has seven years to complete his/her degree before being charged out-of-state tuition. A doctoral student who, after seven years of study, has accumulated 100 or more doctoral hours will be charged tuition at a rate equivalent to out-of-state tuition. Please note that the tuition increases will apply to Texas residents as well as students from other states and countries who currently are charged tuition at the resident rate. This includes those doctoral students who hold GAT, GANT, and GAR appointments of 20 or more hours and recipients of competitive fellowships who receive more than $1,000 per semester. Doctoral students who, after seven years of study, have not
accumulated 100 hours are eligible to pay in-state tuition if otherwise eligible.

For count purposes, a year is counted as three semesters, normally fall, spring and summer. Using this system, a student is allowed 21 semesters as a G8 student to complete the doctoral degree before being penalized with the higher tuition rate. Any semester in which a G8 student is enrolled for a doctoral level course is counted.

The following majors are exempt from the 99-Hour Cap on Doctoral Degrees:

- Biomedical Sciences
- Biochemistry
- Microbiology
- Genetics
- Toxicology
- Nutrition Sciences
- Community Clinical Psychology
- School Psychology
- Veterinary Pathobiology
- Clinical Psychology
- Counseling Psychology
- Medical Sciences
- Health Services Research
- Health Promotion and Community Health Sciences
- Epidemiology and Environmental Health
- Oral Biology

The hour limit for these majors is 130 doctoral hours

**Application for Degree**

For information on applying for your degree, please visit the Graduation (http://catalog.tamu.edu/graduate/academic-expectations-general-degree-requirements/degree-requirements/#graduation) section.