

# ENGINEERING

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## Degree Requirements

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

A minimum of 45 credits at the 400, 500, or 800 level is required, with a minimum of 24 at the 500 or 800 level.

The D.Eng. program emphasizes scholarly applied research and helps students prepare for research and related careers in industry, government, and academe. Students must pass written and/or oral qualifying examinations. The D.Eng. program is quite flexible, with 15 prescribed course credits (9 credits from ENGR 501, ENGR 804, ENGR 405, and ENGR 802; 3 credits from ENGR 820; 3 credits from STAT 500, STAT 501, STAT 505, or STAT 510, or approved numerical methods/analysis course) and 15 technical elective course credits allowing the student to customize their program of study to meet their research interests. Students must also complete 15 research praxis credits (ENGR 810). The D.Eng. is awarded upon completion of a program of advanced study that includes the passing of comprehensive and final oral examinations as determined by the student's praxis committee, and a satisfactory praxis. A D.Eng. student must have 30 credits above a master's degree (i.e., 15 prescribed course credits and 15 technical elective course credits) before taking the comprehensive examination.

The D.Eng. program has a residency requirement that can be met by attending a 5 days on-campus residency or attending multiple shorter on-campus residencies that combined add to a minimum of 5 days. The D.Eng. program is a highly individualized program that takes into account the flexibility needs of its primarily non-traditional students and the unique relationship that student will have with their praxis advisor and committee. Hence, the residency requirement can be met in a number of methods, as long as the cumulative time on campus is at least 5 days. Tracking of residency days will be handled by the Graduate Program Support Assistant (GPSA) for the D.Eng. Program and communicated to the student. The D.Eng. Program will hold, on an annual basis (immediately prior to Fall semester), a 2-day D.Eng. orientation at University Park that will be offered to all students, but not required. It is expected that the remainder of the residency days will be obtained via other methods, e.g., visits to campus for research meetings with praxis faculty, students, and researchers; attendance in lab group meetings on campus; visits to attend on-campus workshops; and organized D.Eng. program-specific professional development activities that will be offered at least once per semester for those in the program and to the broader community. Working with the GPSA, it is the student's responsibility to ensure progress toward completed residency days. This requirement must be satisfied prior to the semester in which the final oral examination is administered. The GPSA will also track successful accomplishment of other program milestones in order to certify completion of all D.Eng. degree requirements.