

DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the [Graduate College Bulletin](#).

DOCTOR of PHILOSOPHY

D370/R230

MAJOR: Engineering

CONCENTRATION: Engineering Education

Program effective Fall 2024

COURSEWORK REQUIREMENTS

The program requires satisfactory completion of at least 48 credit hours beyond the baccalaureate degree for a total of 90 credit hours.

The program requires a minimum of 5000-level or above letter graded engineering courses beyond the earned M.S. degree. ENGR 5213, ENGR 5223, ISE 5553, and ISE 5853 may count toward this requirement

The program can include an earned M.S. degree up to 30 hours. The program allows no more than 6 M.S. thesis research hours.

The program requires a maximum of 9 hours of special studies, guided individual studies, or other non-competitively graded courses.

Core Coursework

- ENGR 5213 Foundations of Engineering Education 3 hours
- ENGR 5223 Curriculum Design, Delivery and Assessment 3 hours
- Total** **6 hours**

Qualitative Research Methods

- EIPT 6043 Qualitative Research Methods **or**
- COMM 5313 Qualitative Research Methods **or**
- SOC 5313 Qualitative Research Methods **3 hours**

Quantitative Research Methods

- ISE 5553 Data-Driven Decision Making I **or**
- ISE 5853 Data-Driven Decision Making II **or**
- PSY 5013 Psychological Statistics II **3 hours**

Advanced Research Methods

- EIPT 6083 Qualitative Research Methods II **or**
- PSY 6073 Experimental Design for Psychology **or**
- EIPT 6223 Mixed-Methods Research **3 hours**

Instructional Theory

- EDSC 5523 Learning Theories and Their Implications for Teaching and Scholarship **3 hours**

- Additional Coursework** **30-42 hours**
As defined by the doctoral advisory conference.

Dissertation Research

- ENGR 6980 Research for Doctoral Dissertation **30-42 hours**

- TOTAL** **90 hours**