

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 2015

COURSEWORK REQUIREMENTS

At least 9 hours of 5000-level or above letter graded engineering courses beyond the MS are required. ENGR 5120, ISE 5553, ISE 5853, and ENGR 5113 may count toward this requirement.

A maximum of 12 hours of 4000-level engineering and science courses approved for graduate credit may be applied (maximum of 9 hours of 4000-level courses from a single discipline).

A maximum of 6 hours of S/U-graded courses (excluding dissertation research) may be applied.

General Coursework

At least 15 hours of 5000-level or above letter graded courses in engineering, science, or math **15 hours**
(Maximum of 9 hours in science and math)

Engineering Education Concentration

Engineering Education Enquiry Seminar

ENGR 5120 Engineering Education Enquiry..... **1-3 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 3 hours

ISE 5853 Data-Driven Decision Making II 0-3 hours

Total **3-6 hours**

Instructional Theory

ENGR 5113 Science, Engineering and Mathematics Educational Outreach for STEM Majors **0-3 hours**

Diversity Topics

EDAH 5473 Race, Class, and Gender in Education **or**

EDAH 5940 Field Studies in Education: Gender, Society, and Education **or**

EDS 5833 Gender, Values, and Education **or**

PHIL 5833 Gender, Values, and Education **or**

HSCI 5550 Topics in the History of Science: Gender in Science, Technology, and Medicine **or**

EDS 5933 Girls, Women, and Educational Studies **3 hours**

Dissertation Research

ENGR 6980 Research for Doctoral Dissertation..... **2-45 hours**

Additional Coursework..... **12-63 hours**

TOTAL..... **90 hours**