DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the Graduate College Bulletin.

DOCTOR of PHILOSOPHY

MAJOR: Industrial and Systems Engineering

Program effective Summer 2020

COURSEWORK REQUIREMENTS

Core Courses

- ISE 5013  Fundamentals of Engineering Statistical Analysis or
- ISE 5553  Data-Driven Decision Making I or
- ISE 5853  Data-Driven Decision Making II or
- ISE 5103  Intelligent Data Analytics or .................................................................3 hours
- ISE 5023  Systems Optimization or
- ISE 5663  Simulation I .................................................................3 hours
- ISE 5033  Systems Engineering or
- ISE 5813  Advanced Human Factors and Ergonomics ............................................3 hours

Total ..............................................................................................................................9 hours

Additional Coursework

At least 12 hours of Industrial and Systems Engineering courses must be at the 5000-level or above.

- ISE 6000-level coursework ..............................................................................................3 hours
  - Can include ISE 6990 Independent Study taught by the major professor; must be approved by the advisory committee.
- ISE 5000/6000-level coursework .....................................................................................9 hours
- Elective coursework ..........................................................................................................9 hours
  - At least 9 hours of electives are required as approved by the graduate liaison and advisory committee.
- Additional coursework ....................................................................................................18-30 hours

Total ..................................................................................................................................39-51 hours

Dissertation Research

- ISE 6980  Research for Doctoral Dissertation ................................................................30-42 hours
  - 30 hours minimum / 42 hours maximum

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

NOTE

Students with an MS thesis from a recognized industrial engineering program may petition the Graduate Committee to apply up to 30 hours from the MS degree and waive the core course requirements. If a student is approved to waive core course requirements, these courses must be replaced by other courses not including independent study.