

**DOCTORAL DEGREE REQUIREMENTS**

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

**DOCTOR of PHILOSOPHY**

D526

**MAJOR:** Industrial and Systems Engineering

Program effective **Summer 2023**

**COURSEWORK REQUIREMENTS**

**Statistics**

- 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

**Modeling**

- ISE 5023 Systems Optimization or
- ISE 5663 Systems Analysis Using Simulation ..... 3 hours

**Systems Engineering**

- ISE 5033 Systems Engineering or
- ISE 5813 Advanced Human Factors and Ergonomics..... 3 hours
- Total**..... **9 hours**

**Additional Requirements**

- Elective coursework..... 9 hours  
At least 9 hours of electives are required as approved by the advisory conference committee and graduate committee.
- Additional coursework..... 30-44 hours
- Total**..... **39-53 hours**

**Dissertation Research**

- ISE 6980 Research for Doctoral Dissertation ..... **28-42 hours**  
28 hours minimum / 42 hours maximum

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

**NOTES**

- At least 12 hours of Industrial and Systems Engineering courses must be at the 5000-level or above.
- At least 3 credit hours must be 6000-level courses in Industrial and Systems Engineering. This can include ISE 6990 Special Studies when approved by the Advisory Conference Committee.
- The program requires between 18 and 30 hours of coursework beyond the MS. Transferable hours are limited to 44.