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 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.