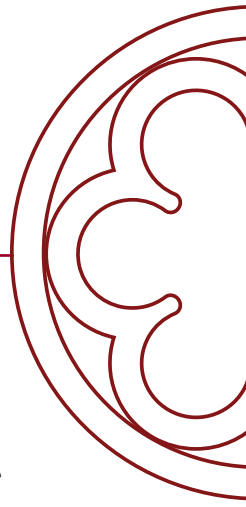




# SCHOOL OF INDUSTRIAL AND SYSTEMS ENGINEERING



Industrial and Systems Engineering at OU provides outstanding education and experiences to students, preparing them for global, national, and regional leadership in the design, analysis, and improvement of integrated systems. We prepare students to develop systems-based solutions that reduce costs, increase productivity, improve quality, and enhance the well-being of society. Through a strong foundation in engineering principles, data-driven decision making, and real-world application, students gain the skills needed to solve complex challenges across a variety of industries. Our graduates are employed in a diverse array of fields including manufacturing, healthcare, distribution, transportation, consulting, logistics, and technology, where they lead efforts to improve efficiency, optimize processes, and drive innovation.

## BY THE NUMBERS

**\$75,000**

Average starting salary for OU ISE graduates

**98%**

Employment Rate of ISE Students

**17:1**

Student to Faculty Ratio

## MAJORS

- Industrial and Systems Engineering: Analytics
- Industrial and Systems Engineering
- Industrial and Systems Engineering: Pre-Medicine

## Accelerated (5-year) Dual Degree Programs

- B.S./M.S. Industrial and Systems Engineering
- B.S. Industrial and Systems Engineering: Analytics/M.S. Industrial and Systems Engineering
- B.S. Industrial and Systems Engineering/M.B.A.
- B.S. Industrial and Systems Engineering: Analytics/M.S. Data Science and Analytics

## CONTACT US

(405) 325-3721  
 Carson Engineering Center, Rm. 124  
[www.ou.edu/coe/ise](http://www.ou.edu/coe/ise)  
 For general questions:  
[goengineering@ou.edu](mailto:goengineering@ou.edu)



Samantha Lynn, David Colindres, and Stella Beaty compete in the Institute for Industrial and Systems Engineering Senior Capstone Competition in Atlanta. Their project "Die Another Day: Optimizing Storage Chaos" for Johnson Controls, Inc. finished in the Final 4 in the nationwide competition.

“OU ISE has taken my problem-solving skills to the next level through real-world projects and hands-on lab experiences in manufacturing and ergonomics. With courses including statistics, operations research, and economics, this degree path prepares us with the skillset to make any process faster, cheaper, and better. I love the versatility of this degree with job opportunities spanning the transportation, aerospace, energy, finance, healthcare, and even entertainment industries. Yet, the best part of it all is easily the people. Having professors who invest in my success and classmates who have become best friends, ISE is a community I value being a part of.”

– Sydney Pierce, Class of 2026

### Terms to Know

Major—Primary area of study  
 Minor—Complimentary area of specialization

B.S.—Bachelor of Science  
 M.S.—Master of Science

M.B.A.—Master of Business Administration  
 M.E.S.—Master of Environmental Science



## THINGS TO KNOW

**1** Students in ISE make processes and systems better in every industry. You'll find graduates in aerospace, healthcare, manufacturing, oil and gas, finance, transportation, consulting, and everywhere in between. Our students integrate analytics and systems thinking, deploying statistics, optimization, and simulation software, designing people-centric tools, and operating cutting-edge manufacturing technology.

**2** ISE graduates aren't just technical experts. Our alumni are the strategic architects of the modern enterprise. By bridging engineering design with decision-making tools, professional presentation skills, and sustainable financial literacy, we equip our alumni with a unique executive toolkit. This powerful combination allows them to master complex systems and lead multidisciplinary teams, propelling them rapidly from project management roles into highly visible leadership positions as division heads and CEOs.

**3** The new BS in Engineering Analytics degree prepares graduates to harness capabilities in examining data, identifying trends, and making informed decisions to analyze and solve engineering problems. This program blends core engineering principles with cutting-edge tools in analytics, optimization, computing, and machine learning to drive smarter decisions in any industry. Students passionate about big-picture problem-solving, and transforming data into making systems better will find fulfillment in the Engineering Analytics path.



Bethany Hopkins providing both project management support in the office and hands-on design work in the field while interning at Gulfport Energy Corporation in Oklahoma City, OK.

## SELECT COURSES

- Production Systems and Operations
- Spreadsheet Decision Support Systems
- Data Driven Decision Making I & II
- Advanced Human Factors and Ergonomics
- Fundamentals of Engineering Economy

## ISE STUDENT ORGANIZATIONS

- Institute for Operations Research and Management Sciences (INFORMS)
- Institute of Industrial and Systems Engineers (IISE)
- + over 60 engineering student organizations

## CAREER PATHS

- NASA** Houston, TX  
*Operations Engineer*
- United States Postal Service**  
Palatine, IL  
*Operations Industrial Engineer*
- NVIDIA** Santa Clara, CA  
*Technical Product Manager*
- Mastercard** Chicago, IL  
*Associate Consultant*
- Boeing** Oklahoma City, OK  
*Systems Engineer*



ISE student David Colindres delivers a TEDx talk titled "Vulnerability Has a Time Signature".