In 1965, the Department of Industrial & Systems Engineering (ISE) was established based on years of coursework with a focus in engineering and management. Since then, the department has consistently expanded its teaching and research missions to include other areas of ISE, such as optimization, information systems, and supply chain and logistics systems. Department excellence in these areas has allowed for recruiting of outstanding faculty and students who have enhanced the existing curriculum and made major research contributions.

Today, the department is highly ranked among public universities, and is creating new research concentration areas in data analytics and human systems, as well as developing new laboratories to support student hands-on learning and world-class research. The program is ABET-accredited and offers bachelor’s, master’s and doctorate degrees in ISE.

**CENTERS & LABS**

**CENTER FOR APPLIED OPTIMIZATION LAB**
Promotes interdisciplinary applied research in discrete and network optimization among other applications

**COMPUTATIONAL & STOCHASTIC OPTIMIZATION LAB**
Focused on modeling of large-scale, stochastic integer programs

**DATA INFORMATICS OF SYSTEMS IMPROVEMENT & DESIGN LAB**
Develops efficient data analytics and operations research algorithms for designing, modeling, monitoring, and controlling data-rich systems for performance improvement

**HEALTH-ENGINE LAB**
Develops innovative analytical solutions for effective and affordable healthcare practices

**HUMAN-SYSTEMS ENGINEERING LAB**
Focused on quantitative models of human performance and design

**SUPPLY CHAIN & LOGISTICS ENGINEERING CENTER**
An interdisciplinary center focused on applied projects with industry partners.

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**UNDERGRADUATE STUDENTS**

<table>
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<tr>
<th>#12</th>
<th>INDUSTRIAL &amp; SYSTEMS ENGINEERING GRADUATE PROGRAM RANKING AMONG PUBLIC UNIVERSITIES</th>
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<tbody>
<tr>
<td>438</td>
<td>ENROLLED</td>
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</tbody>
</table>

**GRADUATE STUDENTS**

| 181 | ENROLLED | 49% UNDERREPRESENTED MINORITIES | 36% FEMALE |

Information sourced from the 2020 U.S. News & World Report & ASEE’s “Engineering by the Numbers” 2019 report

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**FACULTY**

17 TENURED/TENURE-TRACK FACULTY AND GROWING

**RESEARCH AREAS**

- DATA ANALYTICS
- HEALTH SYSTEMS
- HUMAN SYSTEMS
- OPERATIONS RESEARCH
- SMART PRODUCTION & LOGISTIC SYSTEMS