Industrial and systems engineering is where technology, people, business and information intersect.

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Auburn Engineering programs
- Aerospace
- Biosystems
- Chemical
- Civil
- Computer Science and Software
- Electrical and Computer
- Industrial and Systems
- Materials
- Mechanical
- Polymer and Fiber
- Wireless

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Areas of industrial and systems engineering:

- **Production and Manufacturing** — combines the design and operation of manufacturing systems. This includes demand forecasting, production method determination, material and inventory control, computer-aided design and lean manufacturing.
- **Ergonomics and Safety** — uses principles of occupational safety engineering, including environmental concerns, and ergonomics in the evaluation and design of occupational work areas and processes.
- **Engineering Management** — combines aspects of financial engineering and cost analysis, with an emphasis on design economics and cost estimating techniques that have applications to various manufacturing and service operations, including e-commerce.
- **Operations Research, Statistics and Quality Control** — optimizes routing, scheduling, and analyzes system output. Uses mathematical models including linear programming, simulation and network flows to design systems. Includes data analysis, design of experiments, and quality control/six sigma.
- **Information Technologies** — includes data modeling, simulation, database design, decision support tools, supply chain, and Internet-based tools for operations management.

### Undergraduate Curriculum

- **Bachelor of Industrial and Systems Engineering**

Our undergraduate curriculum prepares students for professional practice in industrial and systems engineering and related fields by using case studies, real-world projects, and open-ended homework problems that help develop engineering and design abilities. Students participate in group activities and exercises as well as individual written and oral assignments. A senior design capstone experience takes place in an industrial or governmental organization during the last term of study.

### Employers of our Recent Graduates

Apple Computer, ExxonMobil, BellSouth, Alabama Power, DaimlerChrysler, Intel, General Motors, Honda, Hyundai, UPS, Delta Airlines, Briggs & Stratton, ChevronTexaco, General Electric, Pratt & Whitney, Walt Disney World, Xerox, Milliken, Accenture, Northrup Grumman, Boeing, Frito-Lay, BMW, and all branches of the U.S. armed services.

### Extracurricular Opportunities

Auburn Engineering students can participate in a wide variety of educational activities beyond the classroom, gaining experience with teamwork and project management.

### Industrial and Systems Engineering

The Department of Industrial and Systems Engineering at Auburn University, one of 11 programs in the Samuel Ginn College of Engineering, has been granting degrees since 1931 and is ranked by the latest U.S. News & World Report in the top quarter of industrial engineering programs in the nation. The department has more than 4,000 living alumni, including many high achieving professionals from corporate executives to government leaders to entrepreneurs.

Auburn industrial and systems engineers are highly recruited by well-known companies and demand starting salaries comparable to other engineering disciplines. The U.S. Department of Labor projects a 10 to 20 percent increase in industrial engineering jobs by 2008.

Our percentage of female students is one of the highest of all engineering disciplines — between 40 and 50 percent. Our low student to faculty ratio, roughly 12:1, ensures personal attention and close relationships.

The industrial and systems engineering faculty has considerable industrial or governmental experience and are respected scholars in their field.

The 12-member ISE Alumni Council visits the Auburn campus twice a year, providing students with networking opportunities and insight into career options.