What Can I Do With This **Ohio State** Major?

Bachelor of Science

Industrial and Systems Engineering

College of Engineering

Industrial and systems engineering (ISE) is concerned with the design, operation, and improvement of integrated systems of people, material, information, equipment, and energy. Industrial engineers (IEs) address the overall performance of systems, responsiveness of systems to customer and user needs, and the quality of products or services produced. IEs also carefully evaluate and design the roles people play within work systems to ensure people can safely, effectively, and efficiently perform their tasks while maximizing work quality. In sum, industrial engineers are systems integrators and productivity enhancers.

Career Areas/Job Titles:

Management and Industry

Operations Management

Consultant Entrepreneur

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Efficiency Expert Strategic Planner

Sales Representative

Workplace Designer

Production Supervisor

Hospital Administrator **Health Professions**

Medical Doctor

Veterinarian

Pharmacist Science and Technology

Research and Design Specialist

Product Designer

Quality Engineer

Manufacturing Engineer Information Specialist Government/Politics

Intellectual Properties Lawyer

Education

K-12 Teacher Professor

Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.

Transferable Skills:

Basic Computer Skills

Engineering Fundamentals

Expressing Ideas Persuasion

Provide/Respond to Feedback

Use Technology Effectively Written Communication

Teaching/Instructing Others

Teamwork

Defining Needs

Forecasting/Predicting

Identifying Problems

Setting Goals

Adaptability/Flexibility

Attention to Detail

Judgment & Decision Making

Implementing Decisions
Administrative Skills

Organization Skills

Planning

Prioritizing Tasks

Strategic Planning/Visioning

Creating Innovative Solutions
Quantitative Reasoning

Data Analysis

Analytical/Critical Thinking

Problem Solving

*This is not an extensive list of transferable skills. See larger list of skills you might develop here:

http://ccss.osu.edu

Professional Links:

American Society of Safety Engineers: http://www.asse.org/

Human Factors and Ergonomics Society: https://www.hfes.org/web/Default.aspx

Institute of Industrial Engineers: http://www.iienet2.org/
The American Society for Quality: http://asq.org/index.aspx

