2026-27 Academic Year

BUSINESS ADMINISTRATION > INDUSTRIAL AND OPERATIONS MANAGEMENT

Managing the operations of industrial work involves planning and understanding what will make activity run smoothly and efficiently. Managing production processes and resources, coordinating workers and teams, and overseeing it all requires knowledge of business management and industrial technology. The Industrial Operations Management program combines core business courses with hands-on manufacturing training - including CNC machining, robotics, safety, and supply chain skills. Designed to meet job growth in logistics and operations, this program equips students for leadership roles in manufacturing, logistics, and process improvement.

fast facts

Credit hours: 63

Students must also take 30 credit hours of General Studies courses. A total of 120 credit hours are needed to graduate from WSC. Additional majors or minors can be added to help meet graduation requirements.

Degree options: B.A. or B.S.

Department: Business and Economics

School: Business and Technology

Popular pairings: Drafting, Manufacturing Management, Supply Chain Management

Accreditation: International Accreditation Council for Business Education (IACBE)

focus on results

Skills Learned

- Mechanical and engineering drafting
- Computer integrated manufacturing (CIM) and robotics programming
- CNC machine programming, setup, and operations
- Safety and proper use of machinery and tools
- Conflict resolution and negotiations
- Analytical approaches to management issues
- Communication skills for business and industry
- Supervision and project management
- Database planning, management, and query application

Possible Careers

- Manufacturing manager
- Production supervisor
- Applied engineer
- Building materials manager
- Plant manager
- Inventory manager
- CNC programmer/estimator

Types of Employers

- Manufacturing companies
- Transportation and logistics firms
- Construction firms
- Hospitals
- Pharmaceutical companies
- Railroads
- Cargo firms
- Grain and oilseed milling firms

outside the classroom

Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities

- Career Scholars Program
- Peer tutoring and mentoring
- Study Abroad
- Service-Learning

Clubs / Organizations

- American Society of Safety Professionals (ASSP)
- Associated General Contractors of America (AGC)
- Drafting and Design Club
- Collegiate Entrepreneurs' Organization (CEO) *(open to Career Scholars)*
- Epsilon Pi Tau
- FBLA Collegiate
- Sigma Beta Delta
- SkillsUSA

Courses and outcomes

2026-27 Academic Year

The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

Program courses

Take ECO 203 Principles of Microeconomics for CAT 8. Take ECO 202 Principles of Macroeconomics for CAT 10.

Business Administration Foundation Courses

BUS 208 Business Communications	3
BUS 222 Business Law I	3
BUS 226 Business Statistics	3
BUS 240 Accounting I	3
BUS 241 Accounting II	3
ECO 202 Principles of Macroeconomics	3
ECO 203 Principles of Microeconomics	3

Business Administration Core Courses

BUS 260 Management Theory and Practice	3
BUS 262 International Business	3
BUS 270 Principles of Marketing	3
BUS 322 Managerial Finance	3
BUS 352 Operations and Supply Chain Management	3
BUS 408 Business Ethics	3
BUS 418 Legal Environment of Business	3
BUS 420 Strategic Management	3

Industrial and Operations Management Concentration Courses

BUS 486 Seminar in Supply Chain Management	3
ITE 219 Mechanical and Engineering Drafting	3
ITE 220 Introduction to Manufacturing Operations	3
ITE 306 Industrial Safety	3
ITE 322 Fundamentals of CNC Machining	3
ITE 421 Computer Integrated Manufacturing and Robotics	3

Student learning outcomes

1. Demonstrate an understanding of the core areas of business, which includes accounting, economics, management, quantitative business, finance, marketing, legal environment, information systems, and international
2. Demonstrate effective skills in written and oral communication in business settings
3. Work effectively in a team environment
4. Apply ethical frameworks to formulate management decision alternatives

business and economics faculty

Visit www.wsc.edu/business-economics-department to learn more about the Department of Business and Economics.

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