

Bachelor of Science Occupational and Technical Studies with a Major in Industrial Technology (BS)

Requirements

Lower-Division General Education

Written Communication (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written)	6
Oral Communication (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral)	3
Mathematics (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math)	3
Language and Culture (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language)	0-6
Information Literacy and Research (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information)	3
Human Behavior (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#behavior)	3
Human Creativity (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity)	3
Interpreting the Past (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret)	3
Literature (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature)	3
Philosophy and Ethics (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy)	3
The Nature of Science (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature)	8
Impact of Technology (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact)	3

Written Communication: Grade of C or better required in both courses

Oral Communication: met in the major by HMSV 339

Mathematics: MATH 101M or MATH 102M or MATH 103M and STAT 130M required

Information Literacy and Research: STEM 251G required

Human Creativity cannot be met by SEPS 223A

Human Behavior: PSYC 201S required; cannot be met by SEPS 203S

Impact of Technology: satisfied by STEM 370T in the major

Upper-Division General Education

- Option A. Approved Disciplinary Minor (a minimum of 12 hours determined by the department) or second degree or second major
- Option B. Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major)
- Option C. An approved Certification Program such as teaching licensure
- Option D. Two Upper-Division Courses from outside the College of Education and Professional Studies and not required by the major (6 hours)

Requirements for Graduation

Requirements for graduation include the following:

- Minimum of 120 credit hours.
- Minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward the major.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward a minor.
- Completion of ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better. The W course must be taken at Old Dominion University.
- Completion of Senior Assessment.

Industrial Technology Major

This major is designed to prepare students to enter industry as supervisors, technical managers, or trainers. The major is also available through ODUGlobal. Additional industrial technology areas are available for transfer students. On approval of the program leader, select technical content areas from the community college can satisfy the 30 hours of technical content for this major. Requirements are as follows:

General Education

Complete lower-division requirements	38-44
Complete upper-division requirements (minimum of 6 credit hours)	6

Industrial Technology

Technical Content-General:

SEPS 195	Topics (Design & Visualization)	3
STEM 221	Industrial Materials	3
STEM 231	Materials and Processes Technology	3
STEM 241	Energy Systems: Basic Electricity	3
STEM 242	Technological Systems Control	3
STEM 320	Manufacturing and Construction Technology	3
STEM 351	Communication Technology	3
STEM 382	Industrial Design	3
SEPS 395	Topics in Occupational Education (Design for Production)	3
STEM 495	Topics (Building, Design, and Development)	3

Supervision:

HMSV 339	Interpersonal Relations	3
SEPS 302	Workforce Supervision Management	3
SEPS 400	Instructional Systems Development	3
SEPS 402	Instructional Methods in Occupational Studies	3
SEPS 405	Directed Work Experience (Internship)	4
SEPS 481	Career and Professional Development	3
STEM 365	Safety and OSHA Certification	3
STEM 370T	Technology and Society (Writing Intensive) *	3

Business Cognate:

ACCT 201	Principles of Financial Accounting	3
MGMT 325	Contemporary Organizations and Management	3
MGMT 330 or MGMT 340	Organizational Behavior Human Resource Management	3
MKTG 311	Marketing Principles and Problems	3
Approved Business Electives - 2 courses		6

Electives

Elective credit	3
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Total Credit Hours	120-126
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* Grade of C or better required

Electives

Elective credit may be needed to meet the minimum of 120 credits required for the degree. Additional credits may be needed if a minor is pursued.

Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
Freshman		
Fall		
ENGL 110C	English Composition (C or better required)	3
MATH 101M or MATH 102M or MATH 103M	An Introduction to Mathematics for Critical Thinking or College Algebra or College Algebra with Supplemental Instruction	3
Interpreting the Past		3
Elective or Foreign Language (if required)		0-3
STEM 251G	Computer Literacy: Communication and Information	3
Credit Hours		12-15
Spring		
Literature		3
Human Creativity (cannot be met by SEPS 223A)		3
PSYC 201S	Introduction to Psychology	3
Elective or Foreign Language (if required)		0-3
SEPS 195	Topics (Design & Visualization)	3
Credit Hours		12-15
Sophomore		
Fall		
Nature of Science I		4
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (C or better required) or Writing, Rhetoric, and Research: Special Topics	3
ACCT 201	Principles of Financial Accounting	3
STEM 231	Materials and Processes Technology	3
STEM 241	Energy Systems: Basic Electricity	3
Credit Hours		16
Spring		
Nature of Science II		4
Philosophy and Ethics		3
STAT 130M	Elementary Statistics	3
STEM 221	Industrial Materials	3
STEM 242	Technological Systems Control	3
Credit Hours		16

Junior

Fall

MKTG 311	Marketing Principles and Problems	3
MGMT 325	Contemporary Organizations and Management	3
SEPS 302	Workforce Supervision Management	3
STEM 320	Manufacturing and Construction Technology	3
STEM 351	Communication Technology	3

Credit Hours 15

Spring

HMSV 339	Interpersonal Relations	3
MGMT 330 or MGMT 340	Organizational Behavior or Human Resource Management	3
STEM 382	Industrial Design	3
Minor or Upper-Division General Education		3
SEPS 395	Topics in Occupational Education (Design for Production)	3

Credit Hours 15

Summer

SEPS 405	Directed Work Experience (internship)	4
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Credit Hours 4

Senior

Fall

STEM 370T	Technology and Society (writing intensive; C or better required)	3
SEPS 400	Instructional Systems Development	3
STEM 365	Safety and OSHA Certification	3
Elective		3
Approved Business Elective		3

Credit Hours 15

Spring

SEPS 402	Instructional Methods in Occupational Studies	3
Approved Business Elective		3
Minor or Upper-Division General Education		3
STEM 495	Topics (Building, Design, and Development)	3
SEPS 481	Career and Professional Development	3

Credit Hours 15

Total Credit Hours 120-126