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

Requirements

Lower-Division General Education

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

- MET 120 Computer Aided Drafting - 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 321 Manufacturing 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
- SEPS 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 Organizational Behavior or MGMT 340 Human Resource Management - 3
- MKTG 311 Marketing Principles and Problems - 3
- Approved Business Electives - 2 courses - 6

Electives

Elective credit - 3

Total Credit Hours - 120-126
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
MET 120 Computer Aided Drafting 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

Junger

Fall
MKTG 311 Marketing Principles and Problems 3
MGMT 325 Contemporary Organizations and Management 3
SEPS 302 Workforce Supervision Management 3
STEM 321 Manufacturing 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

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

BA or BS to MBA (Master of Business Administration) Linked Program

The linked BA/MBA or BS/MBA program is an early entry to the MBA program of study. The early-entry program is designed for well qualified non-business undergraduate ODU students to start their MBA program prior to completing their undergraduate degree. Well qualified non-business undergraduate students may take MBA-level courses as early as three semesters prior to graduation and count up to 12 graduate credits toward their undergraduate degree. Students participating in the early-
entry program must earn a minimum of 150 credit hours (120 discrete credit hours for the undergraduate degree and 30 discrete credit hours for the graduate degree). Early-entry program students should carefully consider their undergraduate degree program requirements when planning their course of study. Students in the early-entry program work in close consultation with the MBA Program Office and should refer to information in the Strome College of Business section in the graduate catalog (http://catalog.odu.edu/graduate/stromecollegeofbusiness/) to develop an individualized plan of study based on the required coursework.

**BA or BS to MPA (Master of Public Administration) Linked Program**

The linked BA/MPA or BS/MPA program provides qualified Old Dominion University undergraduate students with the opportunity to earn a master's degree in public administration while taking credits in the MPA program as an undergraduate student. The program is designed for highly motivated students with the desire to immediately continue their education after the bachelor's degree. The program is especially relevant to individuals seeking to work (or currently working) in the public or non-profit sectors, but is suitable for students from any undergraduate major. Graduate courses may be taken during the fall and spring semester of the student's senior undergraduate year. Up to 12 graduate credits can count toward both the undergraduate and graduate degree and can meet upper-level General Education requirements. After receiving the undergraduate degree, a student will continue with the MPA program, taking MPA courses until completing the required 39 credit hours. Students in the linked program must earn a minimum of 150 credit hours (120 discrete credit hours for the undergraduate degree and 30 discrete credit hours for the graduate degree).

Requirements for admission to the graduate program can be found in the School of Public Service section of the Graduate Catalog (http://catalog.odu.edu/graduate/business/public-service/). For additional information, please contact the School of Public Service in the Strome College of Business.