

DEPARTMENT OF INDUSTRIAL & ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE

INDUSTRIAL TECHNOLOGY MAJOR

FACILITIES MANAGEMENT OPTION

The Facilities Management option incorporates a combination of technical and management components designed to prepare students to coordinate physical workplaces, integrating people and the work of the organization to provide a safe, healthy, and efficient work environment. This program incorporates hands-on experiences and management-related theory to prepare students to supervise and coordinate a team of specialists and consultants such as architects, engineers, communications contractors, and construction/maintenance contractors.

CURRICULUM CHECKLIST

UNIVERSITY STUDIES (53 hours)

___ UI 100 First Year Seminar	3
___ Artistic Expression	3
___ Literary Expression	3
___ Oral Expression	3
___ EN 100 English Composition	3
___ Written Expression	3
___ Behavioral Systems	3
___ Living Systems	3
___ MA 134 College Algebra (Logical Systems)	3
___ PH 120/020 Introductory Physics I (Physical Systems)	5
___ Development of a Major Civilization	3
___ MN 220 Engineering Economic Analysis (Economic Systems)	3
___ Political Systems	3
___ SW 207 Understanding Cult & Soc Diversity (Social Systems)	3
___ UI 3xx Interdisciplinary University Studies Course (UI319 recommended)	3
___ UI 3xx Interdisciplinary University Studies Course	3
___ UI 410 Manufacturing Research in a Global Society- University Studies Senior Seminar	3
___ WP 003 Writing Proficiency Test (to be taken after completing 75 hours)	0
___ CCTST Critical Thinking Test (to be taken after completing 75 hours)	0
___ CL001 ___ CL002 ___ CL003 ___ CL004 Career Linkages Requirements	0

INDUSTRIAL TECHNOLOGY CORE

(26 Hours, not counting 17 hours included in University Studies section)

___ CH 181/081/001 Basic Principles of Chemistry or PH121/021 Introductory Physics II	5
___ IM 102 Technical Communication	3
___ IM 301 Industrial Safety	3
___ IM 311 Statistical Process Control	3
___ IM 419 Industrial Supervision	3
___ IM 506 Projects in IET	3
___ MA 133 Plane Trigonometry	3
___ MN 260 Technical Computer Programming Applications	3

IT required courses included in University Studies section above: MA134, MN220, PH120, SW207, and UI410

FACILITIES MANAGEMENT OPTION (42 Hours)

___ AC 221 Financial Accounting	3
___ CM 126 Computer Aided Architectural Drafting	3
___ CM 226 Residential Architecture Drafting and Design	3
___ CM 310 Construction Building Codes	3
___ CM 315 Construction Contracts and Legal Issues	3
___ CM 325 Building Mechanical & Electrical Systems	3
___ CM 330 Construction Planning & Scheduling	3
___ CM 410 Construction Project Administration	3
___ ET 470 Energy Management	3
___ FM 331 Facilities Design & Programming (new course)	3
___ FM 431 Concepts of Space Planning (new course)	3
___ FM 504 Facilities Management	3
___ IM 317 Internship	3
___ MA 139 Applied Calculus	3

EXAMPLE PROGRAM OF STUDY

BS - Industrial Technology major - Facilities Management option

FRESHMAN FALL SEMESTER (15 hrs)

EN 100 English Comp
IM 102 Technical Communication
MA 134 College Algebra
CM 126 Computer Aided Architectural Drafting
UI 100 First Year Seminar
CL001 Career Linkages 1st Requirement

FRESHMAN SPRING SEMESTER (15 hrs)

MA 133 Plane Trigonometry
CM 226 Residential Arch. Drafting & Design
Literary Expression
Oral Expression
Written Expression
CL002 Career Linkages 2nd Requirement

SOPHOMORE FALL SEMESTER (17 hrs)

CH 181/081/001 Basic Principles of Chemistry
CM 310 Construction Building Codes
IM 301 Industrial Safety
MA 139 Applied Calculus
Artistic Expression

SOPHOMORE SPRING SEMESTER (17 hrs)

AC 221 Financial Accounting
MN 260 Technical Computer Programming Appl.
PH 120/020 Introductory Physics I
SW 207 Understanding Cult. & Soc. Diversity
(Social Systems)
Behavioral Systems

JUNIOR FALL SEMESTER (15 hrs)

CM 315 Construction Contracts & Legal Issues
CM 325 Building Mechanical & Electrical Systms
CM 330 Construction Planning & Scheduling
FM 331 Facilities Design & Programming
Living Systems
CL003 Career Linkages 3rd Requirement

JUNIOR SPRING SEMESTER (12 hrs)

FM 431 Concepts of Space Planning
IM 311 Statistical Process Control
IM 317 Industrial Internship
MN 220 Engineering Economic Analysis
WP 003 Writing Proficiency Exam
CCTST California Critical Thinking Skills Test

SENIOR FALL SEMESTER (15 hrs)

ET 470 Energy Management
FM 504 Facilities Management
IM 506 Projects in IET
UI 3xx (UI 319 recommended)
Political Systems
CL004 Career Linkages 4th Requirement

SENIOR SPRING SEMESTER (15 hrs)

CM 410 Construction Project Administration
IM 419 Industrial Supervision
UI 3xx (University Studies)
UI 410 Manufacturing Research Global Society
Developments of a Major Civilization

121 Hours

Notes:

- This proposed rotation is suggested. You will need to meet with your advisor every semester for advising and discussions about your progress and plans.
- Course prerequisites and rotations can change. Even if you fall under an older option of a major, changes in prerequisites apply to all students. For current prerequisites and course rotation, check with the Department of Industrial and Engineering Technology or the Polytechnic Studies Advising Center.
- An internship is highly recommended – the summer after your junior year is a good time
- For course descriptions, see the latest undergraduate bulletin OR www.semo.edu/bulletin
- Visit <http://www.semo.edu/ustudies/handbook/index.htm> for information on the University Studies program
- For information on Career Linkages, visit <http://www.semo.edu/careerlinkages/students/index.htm>