COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

TECHNOLOGY MANAGEMENT: INDUSTRIAL & SAFETY MANAGEMENT OPTION

Bachelor of Science (BS)

This is a guide based on the 2024-2025 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

91 Hours Required – No minor required

___ IM300 Technical Communication (3)
___ IM301 Industrial Safety Supervision (3)
___ IM309 Science, Technology, and Society (3)
___ IM311 Statistical Process Control (3)
___ IM317 Internship (3)
___ IM410 Manufacturing Research in a Global Society (3)
___ IM419 Industrial Supervision (3)
___ IM506 Projects in IET (3)
___ MA116 Precalculus A (3)
___ MA117 Precalculus B (3)
___ MI101 Introduction to Computer Applications (3)
___ MN220 Engineering Econ Analysis (3)
___ PH106/107 Physical Concepts/Lab (4)
___ SW207 Understand Cultural/Social Diversity (3)

Choose 3-5 hours:

___ CH181 Basic Principles of Chemistry (5)
___ GO110 Physical Geology (3)

Industrial & Safety Management Option (45 hours):

___ EG301 Industrial Ergonomics (3)
___ ET160 Basic Electric Circuits (3)
___ ET304 Intro Prog Logic Circuits (3)
___ EV453 Occupational Health (3)
___ EV454 Risk Assessment Appl (3)
___ EV455 Industrial Hygiene (3)
___ IM313 Facilities Planning (3)
___ IM411 Total Quality Assurance (3)
___ IM417 Manufacturing Resource Analysis (3)
___ MN120 Fund of Engr Design Processes (3)
___ MN170 Industrial Materials & Testing (3)
___ MN203 Industrial Materials & Process I (3)
___ MN260 Technical Computer Programming (3)

Choose 6 hours from:

___ CM143 Construction Methods and Materials I (3)
___ CM243 Construction Methods and Materials II (3)
___ FM504 Facilities Management (3)
___ IM405 Innovation for a Lean Enterprise (3)
___ IM515 Advanced Technical Communication (3)
___ MN319 Statics & Strength of Materials (3)
___ MN324 Mechanical Design Processes (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program.

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	*Hrs*	*Course #*	*Hrs*
FIRST YEAR	UI100	1	IM301	3
	EN100	3	MA117	3
	MA116	3	MN170	3
	MI101	3	General Education	3
	MN120	3	General Education	3
	Total	**13**	**Total**	**15**
SECOND YEAR	CH181/GO110	3-5	MN260	3
	ET160	3	MN304	3
	IM300	3	General Education	3
	MN203	3	General Education	3
	PH106/107	4	General Education	3
	Total	**16-18**	**Total**	**15**
THIRD YEAR	ET304	3	EG301	3
	EV453	3	IM419	3
	IM311	3	MN220	3
	Major elective	3	SW207	3
	General Education	3	General Education	3
	Total	**15**	**Total**	**15**
FOURTH YEAR	EV454	3	EV455	3
	IM309	3	IM410	3
	IM313	3	IM417	3
	IM411	3	IM506	3
	Elective	4	Major elective	3
	Total	**16**	**Total**	**15**

**Many major courses are on a set rotation and thus dependent on when prerequisite courses are completed. The actual semester a course is taken may vary based on the rotation.*

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.

ACCREDITED BY ATMAE
The Association of Technology, Management, and Applied Engineering

FASTTRACK WORKFORCE INCENTIVE GRANT

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2024-2025 degree map