

Undergraduate Curriculum in Industrial Technology

Occupational Safety Option

2024-2025 Catalog

Total Credits 120

First Year (31 cr.)

Fall Semester 1 (16 cr.)			Spring Semester 2 (15 cr.)		
1	TSM 1100	Introduction to Technology (F)	1	TSM 1110	Experiencing Technology (FS)
3	TSM 1160	Design in Technology (FS)	3	TSM 1150	Solving Technology Problems (FS)
*3	ENGL 1500	Crit. Think. and Comm.(FSSS)	3	MATH 1510	Calculus for Business and Social Sciences (FSSS)
1	LIB 1600	Library Instruction (FSSS)	4	PHYS 1310	General Physics (FSSS)
3	MATH 1450	Applied Trigonometry (FS)	1	PHYS 1310L	General Physics Lab (FSSS)
4	CHEM 1630	College Chemistry (FS)	3	TSM 2700	Principles of Injury Prevention (FS)
1	CHEM 1630L	Lab in College Chemistry (FS)			

Second Year (30 cr.)

Fall Semester 3 (14 cr.)			Spring Semester 4 (16 cr.)		
1	TSM 2010	Preparing for Workplace Seminar (FS)	2	TSM 3710	Occupational Safety Management (S)
1	TSM 2140	Managing Technology Projects (FS)	3		US Cultures & Communities - See list (FSSS)
3	TSM 2100	Fundamentals of Technology (FS)	3	ACCT 2150	Legal Environment of Business (FSSS)
3	TSM 2400	Intro to Advanced Manufacturing and Metals/Plastics Processing (FS)	*3		Speech Communication - See list (FSSS)
3	ECON 1010	Principles of Microeconomics (FSSS)	3	BIOL 1010	Life Science Biology Requirement (FSSS)
*3	ENGL 2500	Writ/Oral/Vis/Electr Composition (FSSS)	2	HS 1050	First Aid Emergency Care (FS)

**Must earn a C or better*

Credit: R TSM 3970 or 3990 Internship in Technology (FSSS)

Must submit paperwork to enroll.

GPA minimum 2.5 sophomore, 2.0 junior and senior.

Third Year (30 cr.)

Fall Semester 5 (14 cr.)			Spring Semester 6 (16 cr.)		
2	TSM 3720	Legal Aspects of Occupational Safety and Health (F)	3	TSM 3100	Total Quality Improvement (FS)
3	TSM 3760	Fire Protection and Prevention (F)	4	TSM 3630	Electric Power and Electronics (FS)
3	STAT 1040	Introduction to Statistics (FSSS)	3	TSM 3700	Occupational Safety (FS) [Ethics requirement]
3	BIOL 2550	Fundamentals of Human Anatomy (F)	3	PSYCH 2500	Psychology of the Workplace (S)
3		International Perspectives – See list (FSSS)	3		Advanced English - See list (FSSS)

Fourth Year (29 cr.)

Fall Semester 7 (15 cr.)			Spring Semester 8 (14 cr.)		
2	TSM 4150	Applied Project Management in Technology (FS)	3	TSM 4160	Technology Capstone (FS)
3	TSM 4770	Risk Analysis and Management (F)	3	TSM 4700	Industrial Hygiene: Physical, Chemical, and Biological Hazards (S)
3		Humanities - See list (FSSS)	1	TSM 4710	Safety Laboratory (S)
7		Elective (FSSS)	7		Electives (FSSS)

“See list” – Refer to your Academic Progress Report (APR)
in Workday for options for each list.

NOTE: This is a sample four-year plan. Your actual semester schedules may vary.