

**Undergraduate Curriculum in Industrial Technology  
Biological and Biomanufacturing Systems Technology Option**

2024-2025 Catalog

Total Credits 120

**First Year (31 cr.)**

<b>Fall Semester 1 (16 cr.)</b>			<b>Spring Semester 2 (15 cr.)</b>		
1	TSM 1100	Introduction to Technology (F)	1	TSM 1110	Experiencing Technology (FS)
3	TSM 1160	Introduction to Design in Technology (FS)	3	TSM 1150	Solving Technology Problems (FS)
*3	ENGL 1500	Crit. Think. and Communication (FSSS)	3	MATH 1510	Calculus for Business and Social Sciences (FSSS)
1	LIB 1600	Introduction to College Level Research (FSSS)	4	PHYS 1310	General Physics I (FSSS)
3	MATH 1450	Applied Trigonometry (FS)	1	PHYS 1310L	General Physics I Laboratory (FSSS)
4	CHEM 1630	College Chemistry (FS)	3		<b>Option core course – See list</b>
1	CHEM 1630L	Laboratory in College Chemistry (FS)			

**Second Year (29 cr.)**

<b>Fall Semester 3 (14 cr.)</b>			<b>Spring Semester 4 (15 cr.)</b>		
1	TSM 2010	Preparing for Workplace Seminar (FS)	3	TSM 2700	Principles of Injury Prevention (FS)
1	TSM 2140	Managing Technology Projects (FS)	2	MICRO 2010	Introduction to Microbiology (FSSS)
3	TSM 2100	Fundamentals of Technology (FS)	1	MICRO 2010L	Introductory Microbiology Laboratory (FS)
3	BIOL 2110	Principles of Biology I (FSSS)	3	BIOL 2120	Principles of Biology II (FSSS)
3		<b>Option core course – See list</b>	3	ECON 1010	Principles of Microeconomics (FSSS)
*3	ENGL 2500	Writ/Oral/Vis/Elec Composition (FSSS)	*3		Speech Communication – See list (FSSS)

*\*Must earn a C or better*

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

Must submit paperwork to enroll.

GPA minimum 2.5 sophomore, 2.0 junior and senior.

**Third Year (32 cr.)**

<b>Fall Semester 5 (16 cr.)</b>			<b>Spring Semester 6 (16 cr.)</b>		
3	TSM 3700	Occupational Safety (FS) [Ethics requirement]	3	TSM 3100	Total Quality Improvement (FS)
3	STAT 1040	Introduction to Statistics (FSSS)	4	TSM 3630	Electric Power and Electronics for Agriculture and Industry (FS)
2	CHEM 2110	Quantitative and Environmental Analysis (FS)	3	TSM 3800	Fundamentals and Modeling in Biological Systems (S)
2	CHEM 2110L	Quantitative and Environmental Analysis Lab (FS)	3	ACCT 2150 or ACCT 2840	Legal Environment of Business or Financial Accounting (FSSS)
3	LD ST 3220	Leadership in a Diverse Society (FS) [U.S. Diversity requirement]	3		<b>Option core course – See list</b>
3		Humanities - See list (FSSS)			

**Fourth Year (28 cr.)**

<b>Fall Semester 7 (14 cr.)</b>			<b>Spring Semester 8 (14 cr.)</b>		
2	TSM 4150	Applied Project Management in Technology (FS)	3	TSM 4160	Technology Capstone (FS)
3		Advanced English – See list (FSSS)	3		<b>Option core course – See list</b>
3		<b>Option core course – See list</b>	8		Elective (FSSS)
3		International Perspectives – See list (FSSS)			
3		Elective (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.**