Undergraduate Curriculum in Industrial Technology Biological and Biomanufacturing Systems Technology Option 2023-2024 Catalog

Total Credits 120

First Year (31 cr.)

Fal	Fall Semester 1 (16 cr.)			Spring Semester 2 (15 cr.)		
1	TSM 110	Introduction to Technology (F)	1	TSM 111	Experiencing Technology (FS)	
3	TSM 116	Introduction to Design in Technology (FS)	3		Solving Technology Problems (FS)	
*3	ENGL 150	Crit. Think. and Communication (FSSS)	3	MATH 151	Calculus for Business and Social Sciences (FSSS)	
1	LIB 160	Introduction to College Level Research (FSSS)	4	PHYS 131	General Physics I (FSSS)	
3	MATH 145	Applied Trigonometry (FS)	1	PHYS 131L	General Physics I Laboratory (FSSS)	
4	CHEM 163	College Chemistry (FS)	3		Option core course – See list	
1	CHEM 163L	Laboratory in College Chemistry (FS)				

Second Year (29 cr.)

Fall Semester 3 (14 cr.)			Spring Semester 4 (15 cr.)			
1	TSM 201	Preparing for Workplace Seminar (FS)	3	TSM 270	Principles of Injury Prevention (FS)	
1	TSM 214	Managing Technology Projects (FS)	2	MICRO 201	Introduction to Microbiology (FSSS)	
3	TSM 210	Fundamentals of Technology (FS)	1	MICRO 201L	Introductory Microbiology Laboratory (FS)	
3	BIOL 211	Principles of Biology I (FSSS)	3	BIOL 212	Principles of Biology II (FSSS)	
3		Option core course – See list	3	ECON 101	Principles of Microeconomics (FSSS)	
*3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	*3		Speech Communication – See list (FSSS)	
-	*Must earn a C or better					

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Summer – R TSM 397 or TSM 399 Internship in Technology (FSSS)

Must submit paperwork to enroll.

GPA minimum 2.5 sophomore, 2.0 junior and senior.

Third Year (32 cr.)

Fall Semester 5 (16 cr.)			Spring Semester 6 (16 cr.)		
3	TSM 370	Occupational Safety (FS) [Ethics requirement]	3	TSM 310	Total Quality Improvement (FS)
3	STAT 104	Introduction to Statistics (FSSS)	4		Electric Power and Electronics for Agriculture and Industry (FS)
2	CHEM 211	Quantitative and Environmental Analysis (FS)	3	TSM 380	Fundamentals and Modeling in Biological Systems (S)
2		Quantitative and Environmental Analysis Lab (FS)		ACCT 215 or ACCT 284	Legal Environment of Business or Financial Accounting (FSSS)
3		Leadership in a Diverse Society (FS) [U.S. Diversity requirement]	3		Option core course – See list
3		Humanities - See list (FSSS)			

Fall Semester 7 (14 cr.)				Spring Semester 8 (14 cr.)		
2	TSM 415	Applied Project Management in Technology (FS)	3	TSM 416	Technology Capstone (FS)	
3		Advanced English – See list (FSSS)	3		Option core course – See list	
3		Option core course – See list	8		Elective (FSSS)	
3		International Perspectives – See list (FSSS)				
3		Elective (FSSS)				

"See list" – Refer to your Degree Audit (available in AccessPlus) for options for each list. NOTE: This is a sample four-year plan. Your actual semester schedules may vary.

Fourth Year (28 cr.)