Comprehensive Mechanical Engineering Technology
Bachelor of Science

	Cr Hrs	Cr Rec	Cr Bal	Prerequisites / Periodicity
General Education Requirements	45-49			
Specific General Education Requirements				
MTH 261 - Analytic Geometry and Calculus I	3			"C" or better in MTH 137 or 138 or placement
ENG 210 - Writing across the Disciplines	3			30 hours, ENG 110
ECO 155 - Principles of Macroeconomics	3			
PSY 121 - Introductory Psychology	3			
PHY 203 - Foundations of Physics I	5			MTH 261 or concurrent if ACT MTH > 29
Mechanical Engineering Technology Core Requirements				
TCM 110 - Introduction to Engineering Design	3			Declared major
TCM 273 - Mechanics of Materials	3			PHY 233/ Spring
TCM 281 - Dynamics	3			PHY 233/ Spring
TCM 315 - Thermodynamics and Heat Transfer	3			MTH 280, PHY 203/ Spring
TCM 325 - Fluid Mechanics	3			TCM 315/ Spring
TCM 331 - Materials and Manufacturing Processes	3			TCM 273/ Fall
TCM 337 - Quality Control and Measurement	3			MTH 345 or QBA 237/ Fall
TCM 347 - Electrical Circuits	3			TCM 322 or PHY 204/ Fall
TCM 355 - Production Planning and Control	3			53 hours/ Spring
TCM 359 - Principles of Project Management	3			53 hours
TCM 365 - Computer Integrated Manufacturing	3			TCM 110; TCM 347 or concurrent enrollment/ Fall
TCM 411 - Mechanical Design and Analysis	3			TCM 331 or concurrent enrollment/ Demand
TCM 438 - Systems Integration	3			TCM 365 or TCM 366/ Spring
TCM 498 - Senior Design	3			TCM 411/ Spring
TCM 551 - Project Schedule and Cost Management	3			80 hours, TCM 359; admitted to program
Related Quantitative and Science Requirements				
ACC 201 - Introduction to Financial Accounting	3			24 hours; "C" or better in MTH 134 or above
CHM 160 - General Chemistry I	4			MTH 136 or higher; concurrent enrollment in CHM 161
CHM 161 - General Chemistry I Laboratory	1			CHM 160 or concurrent enrollment
ITC 260 - Introduction to JAVA Programming **OR**	3			
CSC 125 - Introduction to C++ Programming	4			MTH 136 or higher or concurrent recommended
MTH 280 - Analytic Geometry and Calculus II	5			"C" or better in MTH 261
MTH 345 - Statistics for Scientists and Engineers	3			MTH 280 or 288
PHY 204 - Foundations of Physics II	5			"C" or better in PHY 203; MTH 280 or 288 or concurrent enrollment in 280
PHY 233 - Engineering Statics	3			"C" or better in MTH 280 and PHY 203
Approved Upper Division (300 level or above) electives	6			Must be approved by advisor

Admission to the Mechanical Engineering Technology program: At least a "C" or better in MTH 261.

Cr Rec - Credit hours received for courses completed. Cr Bal - Credit balance needed to fulfill requirements.

Electives, as needed to bring total credit hours to a minimum of 120 and upper division hours (300+) to 40.

For advisement only. Consult appropriate catalog for degree requirements.