

# Bachelor of Science in Engineering Technology

## Major in Global Manufacturing Systems Engineering Technology

Semester 1 17 credits	Semester 2 17 Credits	Semester 3 16 Credits	Semester 4 16 Credits	Semester 5 17 Credits	Semester 6 16 Credits	Semester 7 17 Credits	Semester 8 17 Credits						
<b>SET 100</b> Intro to Engr Tech I (0)	<b>SET 101</b> Intro to Engr Tech II (0)	<b>SET 200</b> Prof Dev for Sophomores (0)	<b>ECT 110</b> Electrical Circuits I (3)	<b>SET 300</b> Prof Dev for Juniors (0)	<b>IET 323</b> Project Management (3)	<b>SET 400</b> Prof Dev for Seniors (1)	<b>MFG 490</b> Senior Design Project (3)						
<b>EGR 100</b> Enrichment Workshop (0)	<b>EGR 100</b> Enrichment Workshop (0)	<b>MCT 220</b> Statics & Dynamics (3)	<b>ECT 110L</b> Electrical Circuits I Lab (1)	<b>MCT 313</b> Industrial Mechanisms (3)	<b>MFG 431</b> Automation Controls (3)	<b>IET 317</b> Industrial Economics (3)	<b>ECT 408</b> Data Acquisition & Measure (2)						
<b>MCT 110L</b> Tech Drawing & CAD (2)	<b>SET 153L</b> Technical Computation (1)	<b>IET 408</b> Lean Management (3)	<b>IET 318</b> Statistical Process Cntrl (3)	<b>MCT 336</b> Fluid Power (3)	<b>Language Requirement</b> (4)	<b>IET 316</b> Quantitative Methods (3)	<b>MFG 427</b> CIM & Global Mfg (3)						
<b>MFG 108L</b> Mfg Processes Lab (1)	<b>EGR 103</b> Engineering Innovation (2)	<b>MCT 111L</b> Introduction to Design (2)	<b>MCT 221</b> Strength of Materials (3)	<b>MCT 336L</b> Fluid Power Lab (1)	<b>TECH EL</b> (3)	<b>MFG 438</b> Sustain Mfg & Prod Design (3)	<b>Advanced Historical Studies</b> (3)						
<b>MTH 137</b> Calculus I With Review 1 (4)	<b>MFG 204</b> Materials & Processes (3)	<b>MFG 208L</b> Geometric Dim & Tolerance (1)	<b>MFG 240</b> Mfg Product Design (3)	<b>MFG 432</b> Plastic, Comp, Nano Matrils (3)	<b>Advanced PHL/REL (Ethics)</b> (3)	<b>Language Requirement</b> (4)	<b>SSC 200</b> (3)						
<b>CHM 123</b> General Chemistry (3)	<b>MFG 204L</b> Materials & Proc Lab (1)	<b>MFG 206L</b> Dimensional Metrology (1)	<b>ENG 200</b> Writing Seminar II (3)	<b>MFG 434</b> Robotics & CNC (3)	<b>Advanced PHL/REL</b> (3)	<b>Advanced PHL/REL</b> (3)	<b>Art Study</b> (3)						
<b>CHM 123L</b> General Chem Lab (1)	<b>MTH 138</b> Calculus I With Review 2 (4)	<b>MTH 207</b> Introduction to Statistics (3)	<b>PHY 201</b> General Physics I (3)	<b>PHY 201L</b> General Phys I Lab (1)	<div style="border: 1px solid black; padding: 5px;"> <p><b>CAP Crossing Boundaries Requirements</b></p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Faith Traditions</td> <td><input type="checkbox"/> Integrative</td> </tr> <tr> <td><input type="checkbox"/> Practical Ethical Action</td> <td><input type="checkbox"/> Diversity &amp; Social Justice</td> </tr> <tr> <td><input type="checkbox"/> Inquiry</td> <td></td> </tr> </table> <p style="text-align: right;"><a href="http://www.udayton.edu/provost/cap/advise.php">www.udayton.edu/provost/cap/advise.php</a></p> </div>			<input type="checkbox"/> Faith Traditions	<input type="checkbox"/> Integrative	<input type="checkbox"/> Practical Ethical Action	<input type="checkbox"/> Diversity & Social Justice	<input type="checkbox"/> Inquiry	
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<input type="checkbox"/> Practical Ethical Action	<input type="checkbox"/> Diversity & Social Justice												
<input type="checkbox"/> Inquiry													
<b>ENG 100</b> Writing Seminar I (3)	<b>PHL 103</b> Introduction to Philosophy (3)	<b>CMM 100</b> Principles of Oral Comm. (3)											
<b>REL 103</b> Introduction to Religion (3)	<b>HST 103</b> The West & The World (3)												

**KEY**

CAP Common	Math	Technical Elective	See reverse for course prerequisites.
CAP Electives	Science	ET Core	

----- Corequisite or concurrent

Consult academic advisor for selection of approved common academic program (CAP) and technical elective courses.

# Course Prerequisites & Corequisites

Electronic & Computer Engineering Technology		
Course	Prereq(s)	Coreq(s)
ECT 110		ECT 110L
ECT 110L		ECT 110
ECT 120	ECT 110; MTH 137 or 168	
ECT 206	ECT 120	ECT 206L
ECT 206L		ECT 206
ECT 224	ECT 110	ECT 224L
ECT 224L		ECT 224
ECT 306	ECT 206; MTH 138 or 168	ECT 306L
ECT 306L		ECT 306
ECT 357	ECT 224	
ECT 358	ECT 224, 361	ECT 358L
ECT 358L		ECT 358
ECT 361	SET 153L	
ECT 362	ECT 361	
ECT 400	Permission of department chairperson	
ECT 408	ECT 110L; SET 153L; MTH 138 or 168; MTH	
ECT 452	ECT 306, 408; MTH 138 or 168	
ECT 456	ECT 110 or EGR 203	
ECT 459	ECT 357, 358	
ECT 460	ECT 357	
ECT 461	ECT 110	
ECT 465	ECT 224;	
ECT 466	ECT 358	
ECT 490	CMM 100 or (110 and (CMM 111 or 112)); ECT 306, 358, 408; IET 323;	

Global Manufacturing Systems Engineering Technology		
Course	Prereq(s)	Coreq(s)
MFG 108L		
MFG 204		MFG 204L
MFG 204L		MFG 204
MFG 206L	MCT 110L	
MFG 208L	MCT 110L	
MFG 240	MCT 110L; MFG 108L,	
MFG 400	Permission of department chairperson	
MFG 424	MCT 220, 313	
MFG 427	MFG 204; SET 153L	
MFG 431	ECT 110; SET 153L	
MFG 432	CHM 123; MFG 204	
MFG 434	MCT 110L; MFG 108L; SET 153L	
MFG 435	MFG 434	
MFG 438	MFG 108L, 204	
MFG 490	CMM 100 or 110 and (CMM 111 or 112); IET 323; MFG 240, 431; MTH	

Industrial Engineering Technology		
Course	Prereq(s)	Coreq(s)
IET 230		
IET 316	MTH 138 or 168; MTH 207	
IET 317	MTH 137	
IET 318	MTH 207	
IET 319	IET 318	
IET 320	IET 318; MTH 207	
IET 321	IET 318; MTH 207	
IET 323	Junior or Senior status	
IET 332	MCT 110L	
IET 346		
IET 400	Permission of department chairperson	
IET 408	Junior or Senior status	
IET 415		
IET 418	MTH 137 or 168	
IET 420		
IET 423	Junior or Senior status	
IET 425	MTH 137 or 168	
IET 435	Junior or Senior status or permission of department chairperson	
IET 446	Junior or Senior status or permission of department chairperson	
IET 490	CMM 100 or (110 and (CMM 111 or 112)); IET 408, 317, 323, 332; MTH	

Mechanical Engineering Technology		
Course	Prereq(s)	Coreq(s)
MCT 110L		
MCT 111L	MCT 110L or MEE 104L and 227L	
MCT 220		MTH 137 or 168
MCT 221	MCT 220; MFG 204, 204L; MTH 137 or 168	
MCT 231	MTH 137 or 168	
MCT 313	MCT 110L, 220; MTH 137 or 168	
MCT 317	MCT 111L, 313; MTH 138 or 168, SET 153L	
MCT 330	MCT 111L, 221; MFG 208L	
MCT 336		MCT 336L
MCT 336L		MCT 336
MCT 342	MCT 231; MTH 138 or 168; SET 153L	
MCT 400	Permission of department chairperson	
MCT 423	MCT 330	
MCT 430	MCT 336	
MCT 432	MCT 342	
MCT 438	MCT 231; SET 153L	
MCT 440	MCT 317; SET 153L	
MCT 445	MCT 221	MCT 445L
MCT 445L		MCT 445
MCT 446	MCT 221	
MCT 456	MCT 220 or EGR-201	
MCT 490	CMM 100 or 110 and (CMM 111 or 112); IET 323; MCT 317, 330; MTH	

Engineering Technology		
Course	Prereq(s)	Coreq(s)
SET 100		
SET 101		
SET 102	Permission of department chairperson	
SET 153L		
SET 198	Permission of department chairperson	
SET 200		
SET 298	Permission of department chairperson	
SET 300		
SET 398	Permission of department chairperson	
SET 400		
SET 498	Permission of department chairperson	

## Mathematics

Course	Prereq(s)	Coreq(s)
MTH 137		
MTH 138	MTH 137	
MTH 207		

## Science

Course	Prereq(s)	Coreq(s)
CHM 123		
CHM 123L		CHM 123
PHY 201		
PHY 201L		PHY 201 or 206
PHY 202	PHY 201	
PHY 202L	PHY 201L	

## English

Course	Prereq(s)	Coreq(s)
ENG 100		
ENG 200	ENG 100	