



# Bachelor of Science in Manufacturing Engineering\*

## Curriculum Plan Sheet-August 2004

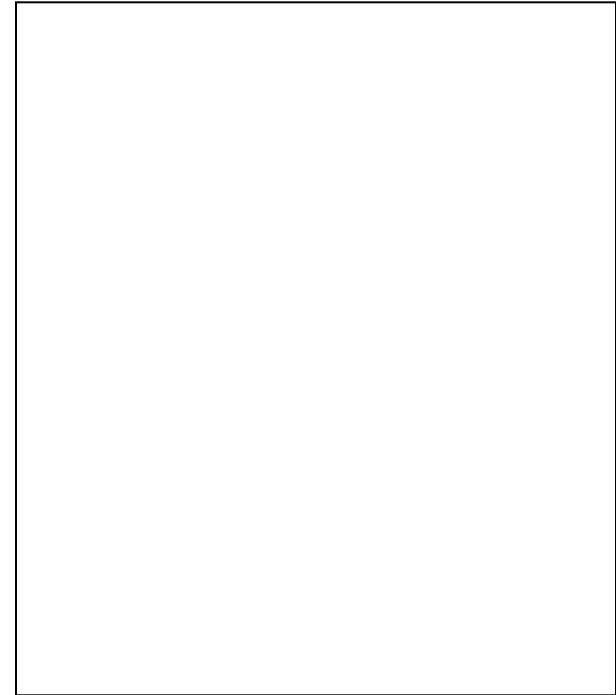
\*Accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology

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Name \_\_\_\_\_ ID Number \_\_\_\_\_ Date \_\_\_\_\_

Program Director \_\_\_\_\_ Date \_\_\_\_\_

<input type="checkbox"/> Communication Skills		<input type="checkbox"/> Engineering Core	
__ENGL-101 Freshman English Composition	3	__MFGT-150 Intro. to Engineering Materials	3
__ENGL-102 Freshman English Reading and Writing	3	__MECH-293 Engineering Mechanics	3
__SPCOM-100 Fundamentals of Speech	2	__MECH-294 Mechanics of Materials	3
<input type="checkbox"/> Analytical Reasoning Skills		__ELEC-290 Circuits & Devices	4
__MATH-153 Calculus I	4	__MFGE-275 Thermodynamics and Heat Transfer	2
__MATH-154 Calculus II	4	<input type="checkbox"/> Process, Assembly, and Product Engineering	
<input type="checkbox"/> Health Enhancement and Physical Well - Being		__CADD-112 Engineering Drawing I	3
<i>from approved General Education listing</i>	2	__CADD-436 CAD Problems (solid modeling)	3
<input type="checkbox"/> Humanities and Social Sciences		__MFGE-441 Design of Jigs, Fixtures, and Tooling	3
<i>Minimum of five (5) different areas and depth in one (1) of these five</i>		__MFGE-405 Capstone I: Product/System Design	3
<i>from the following approved General Education listings:</i>		<input type="checkbox"/> Materials and Manufacturing Processes	
➤ <b>Humanities and the Arts</b>	9	__MFGT-251 Polymer & Composite Processes	3
[minimum two (2) subject areas]		__MFGT-252 Material Removal & Forming Processes	3
➤ <b>Social and Behavioral Sciences</b>	9	__MFGT-253 Casting & Joining Processes	3
[minimum two (2) subject areas]		__MFGE-351 Manufacturing Process Engineering I	3
<input type="checkbox"/> <b>Ethnic studies endorsement</b>		__MFGE-352 Manufacturing Process Engineering II	3
<input type="checkbox"/> <b>Global studies endorsement</b>		<input type="checkbox"/> Manufacturing Integration Methods and System Design	
<input type="checkbox"/> Natural Sciences		__MFGE-325 Computer Aided Manufacturing	3
__CHEM-135 College Chemistry I	5	__MFGE-363 Controls & Instrumentation	4
<input type="checkbox"/> Technology		__MFGE-391 Fluid Mechanics	2
<i>from approved General Education listing</i>	2	__MFGE-415 Machine Vision & Robotics	2
<input type="checkbox"/> Mathematics and Basic Sciences		__MFGE-410 Capstone II: Manufacturing Sys. Design	3
__CHEM-341 Chemistry of Materials	4	__MFGE-440 Design & Simulation of Mfg. Systems	3
__STAT-330 Probability & Statistics	3	<input type="checkbox"/> Manufacturing Competitiveness	
__MATH-250 Differential Equations/Linear Algebra	3	__INMGT-300 Engineering Economy	2
__PHYS-281 University Physics I	5	__INMGT-422 Quality Engineering	3
__PHYS-282 University Physics II	5	__INMGT-335 Lean Manufacturing Systems	4
		<input type="checkbox"/> Professional Selective (1 credit minimum)	



**Advisor Notes Key:** T = Transfer Course  
 C = Category Complete W = Waived Course/Credits  
 St = Stout Course Su = Substitute Course

### Professional Selective Course List

MFGE-349	Intern Experience (limit 3 occur.)	1-3	___
MFGE-449	Cooperative Experience	1-3	___
RC-381	Safety & Loss Control	2	___
PKG-335	Packaging Machinery	3	___
MECH-332	Mechanical Design	4	___
CHEM-325	Chemistry of Polymers	4	___
INMGT-410	Six Sigma Tools	3	___
CADD-466	Computer Modeling & Rendering	3	___
INMGT-305	Production and Inventory Control	3	___
INMGT-365	Project Management	2	___
INMGT-400	Organizational Leadership	3	___
ENGL-415	Technical Writing	3	___

When scheduling Co-ops be aware that some classes are only offered one semester per year. Be sure to visit with your advisor or program director to confirm that your co-op will not interfere with your program plan.

TOTAL CREDIT HOURS: 132