

# Manufacturing Engineering Technology—Program Check-off Sheet

## 2001/2002 Undergraduate Catalog

Name \_\_\_\_\_

SID \_\_\_\_\_

Academic Year \_\_\_\_\_

WKH Rev.: Apr. 5, 2002

Part I - General Education Requirements					Prof.		
Writing Area	Cr.	Gr.	W	O	T		
ENGL 1010 Crit. Reading & Expos Writing	3						
ENGL 1020 Crit. Thinking & Argumentation	3						
Mathematics Area							
MATH 1530 Probability & Statistics-NonCalc	3						
Information Technology Area							
CSCI 1100 Using Info Tech or UIT Exam	2						
Science Area							
CHEM 1110/11 Gen. Chemistry: Lect (3)/Lab (1)	4						
PHYS 2010/11 Gen. Physics I-NonCalc Lect/Lab	4			X			
Heritage Area							
HIST 2010 U.S. History, Before 1877	3						
HIST 2020 U.S. History, 1877-present	3						
E ENGL 2 Heritage / Literature Elective	3						
Arts and Artistic Vision Area							
E _____	3						
Identity, Ethics, & Social Responsibility Area							
E _____	3						
Institutions and Society Area							
ECON 2210 Principles of Economics, Part I	3						
PSYC 1310 Introduction to Psychology	3						
Humanities Area							
ENTC 3020 Technology & Society	3						
Physical Education, Military Science, or Band <sup>2</sup>							
E _____	1						
E _____	1						
<b>General Education Core Total</b>			<b>43</b>	<b>-</b>	<b>45</b>		

Part IIIa - Manufacturing Core Classes					Prof.		
	Cr.	Gr.	W	O	T		
ENTC 1120 Manuf. Processes & Specs	3						
ENTC 2200 Machine Tool Technology	4						
ENTC 2310 Electrical Principles	4						
ENTC 3620 Thermal & Fluid Technologies	4						
ENTC 3710 Manual CNC Programming	3						X
ENTC 4357 CIM Applications (or ENTC 3260)	3						X
ENTC 4037 Quality Assurance I	3						
Part IIIb - Technical Support Core Courses							
CSCI 2100 <sup>1</sup> Introduction to C	4						
MATH 1720 Precalculus	3						
MATH 1840 <sup>2</sup> Analy Geometry & Diff. Calc.	3						
MATH 1850 <sup>2</sup> Integral Calc. for Technology	3						
PHYS 2020/21 <sup>2</sup> Gen Physics II-NonCalc Lect/Lab	4						X
<b>Manufacturing &amp; Technical Support Core Total</b>			<b>41</b>	<b>-</b>	<b>43</b>		

Part IV - Speciality Sequences (Choose One) <sup>4</sup>					Prof.		
Programming & Automation Sequence	Cr.	Gr.	W	O	T		
ENTC 2320 Electronics I	4						
ENTC 4277 Instrumentation & Process Control	4						
ENTC 4327 Electronics—Digital Circuits	4						
ENTC 4337 Microprocessors I	4						
<i>Choose any two or more of the following ENTC classes</i>							
ENTC 3350 Industrial Electronics	3						
ENTC 4287 Introduction to Robotics	3						
E <sup>5</sup> ENTC	3						
<b>Program Total w/ Prog. &amp; Autom. Seq.</b>			<b>129</b>	<b>-</b>	<b>135</b>		

Part II - Technology Core Requirements					Prof.		
	Cr.	Gr.	W	O	T		
ENTC 1110 Engineering Drawing	4						
ENTC 1510 Student in Univ (Opt.Xfers>15 hr)	3			X			
ENTC 2170 CADD	3						X
ENTC 3030 Technical Communication	3			X	X		
ENTC 4017 Industrial Supervision	3			X			
ENTC 4060 Project Scheduling	3						
ENTC 4600 Technology Practicum	4						X
ENTC 4777 Safety Management	3						X
<b>Technology Core Total</b>			<b>23</b>	<b>-</b>	<b>25</b>		
<b>General Education &amp; Technology Core Total</b>			<b>66</b>	<b>-</b>	<b>70</b>		

General Manufacturing Sequence					Prof.		
	Cr.	Gr.	W	O	T		
ENTC 3010 Statics & Strength of Materials	3						
ENTC 3240 Engr Materials & Materials Testing	4						
ENTC 4257 Plant Layout & Materials Handling	3						
<i>Choose any three or more of the following ENTC classes</i>							
ENTC 3600 <sup>6</sup> Manufacturing Technology	3						
ENTC 3680 Polymers and Composites	3						
ENTC 4227 Engineering Economy	3						
ENTC 4237 Time & Motion	4						
ENTC 4247 Operational Analysis	3						
E <sup>5</sup> ENTC	4						
<b>Program Total w/ General Manuf. Sequence</b>			<b>128</b>	<b>-</b>	<b>132</b>		

**Notes:**

- <sup>1</sup> CSCI 1250, 1310, or 1800 may be substituted for CSCI 2100.
- <sup>2</sup> MATH 1910 & 1920 will satisfy the MATH 1840/1850 sequence.
- <sup>3</sup> CHEM 1120/21 may be substituted for PHYS 2020/21
- <sup>4</sup> In special cases and only with the approval of a MET program advisor, a student may develop a track of technical electives selected with the goal of developing proven technical understanding & competence in one or two manufacturing areas.
- <sup>5</sup> ENTC electives may be chosen from any of the offerings in the other specialty sequence or any of the following: ENTC 4217, 4347, 4900, 4957, 4989/99.
- <sup>6</sup> Cooperative Education (ENTC 4989-99) may be substituted for ENTC 3600.

**Advisor Notes:**

Advisor: \_\_\_\_\_ / \_\_\_\_ / \_\_\_\_

Transfer/Substitution Memo Sent \_\_\_\_\_ / \_\_\_\_ / \_\_\_\_