

B.S. Engineering Technology—Manufacturing Engineering Technology Concentration—Program Check-off Sheet
East Tennessee State University — 2002/2003 & 2003/04 Undergraduate Catalogs

This program is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET)

Name _____

SID _____

Academic Year _____

WKH Rev.: Nov. 17, '05

Part I - General Education Requirements		Cr.	Gr.	Prof.		
				W	O	T
Writing Area						
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 ²						
E _____		1				
E _____		1				
General Education Core Total		43	- 46			

Part II - Technology Core Requirements		Cr.	Gr.	Prof.		
				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	
Technology Core Total		23	- 25			
General Education & Technology Core Total		66	- 71			

Part IIIa - Manufacturing Core Classes		Cr.	Gr.	Prof.		
				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	3				X
ENTC 4037	Quality Assurance I	3				
Part IIIb - Technical Support Core Courses						
CSCI 2100 ¹	Introduction to C	4				
MATH 1720	Precalculus	3				
MATH 1840 ²	Analy Geometry & Diff. Calc.	3				
MATH 1850 ²	Integral Calc. for Technology	3				
PHYS 2020/21 ¹	Gen Physics II-NonCalc Lect/Lab	4			X	
Manufacturing & Technical Support Core Total		41	- 43			

Part IV - Speciality Sequences (Choose One) ⁴		Cr.	Gr.	Prof.		
				W	O	T
Programming & Automation Sequence						
ENTC 2320	Electronics I	4				
ENTC 4277	Instrumentation & Process Control	4				
ENTC 4327	Electronics—Digital Circuits	4				
ENTC 4337	Microprocessors I	4				X
<i>Choose any two or more of the following ENTC classes</i>						
ENTC 3350	Industrial Electronics	3				
ENTC 4287	Introduction to Robotics	4				
E ⁵ ENTC		3				
Program Total w/ Prog. & Autom. Seq.		129	- 136			

General Manufacturing Sequence		Cr.	Gr.	Prof.		
				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 ⁶	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 ⁵ ENTC		4				
Program Total w/ General Manuf. Sequence		128	- 133			

Notes:

- ¹ CSCI 1250, 1310, or 1800 may be substituted for CSCI 2100.
- ² MATH 1910 & 1920 will satisfy the MATH 1840/1850 sequence.
- ³ CHEM 1120/21 may be substituted for PHYS 2020/21
- ⁴ 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.
- ⁵ 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.
- ⁶ Cooperative Education (ENTC 4989-99) may be substituted for ENTC 3600.

Advisor Notes:

Advisor: _____ / _____ / _____

Transfer/Substitution Memo Sent _____ / _____ / _____