

B.S. Engineering Technology—Manufacturing Engineering Technology Concentration—Program Check-off Sheet
East Tennessee State University — 2004/05 - 2009/10 Undergraduate Catalogs

This program is accredited by the Technology Accreditation Commission of ABET,
 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700.

Name _____ SID _____
 WKH _____

Academic Year _____
 Manuf-04b.xls Rev. B: Sept. 11, 2009

Part I - General Education Requirements ¹			Prof.				
Communications Area			Cr.	Gr.	W	O	T
ENGL 1010	Crit. Reading & Expos	Writing	3				
ENGL 1020	Crit. Thinking & Argumentation		3				
SPCH 2300	Public Speaking		3				
Mathematics Area							
⁽²⁾ MATH 1530	Probability & Statistics-NonCalc		3				
Natural Sciences Area							
CHEM 1110/11	Gen. Chemistry: Lect (3)/Lab (1)		4				
PHYS 2010/11	Gen. Physics I-NonCalc Lect/Lab		4		X		
History Area							
HIST 2010	U.S. History To 1877		3				
HIST 2020	U.S. History Since 1877		3				
Social & Behavioral Sciences Area							
ECON 2210	Principles of Economics, Part I		3				
PSYC 1310	Introduction to Psychology		3				
Humanities & Fine Arts Area							
E ENGL 2	Literature Elective		3				
E	Fine Arts Elective		3				
ENTC 3020	Technology & Society		3				
General Education Core Total			41				

Part II - Technology Core Requirements			Prof.				
			Cr.	Gr.	W	O	T
ENTC 1510	Student in Univ (Opt.Xfers>15 hr)		3		X		
ENTC 2170	Engr Dwg & CADD		4				X
ENTC 3030	Technical Communication		3		X	X	
ENTC 4017	Industrial Supervision		3		X		
ENTC 4060	Project Scheduling		3				
⁽⁵⁾ ENTC 4600	Technology Practicum		4				X
Technology Core Total			20				
General Education & Technology Core Total			61				

Notes:

- ¹ For details regarding the General Education requirements and course selection, see the appropriate Undergraduate Catalog
- ² MATH 1840, 1850, 1910, or 1920 may count for GenEd math area credit.
- ³ MATH 1910 & 1920 will satisfy the MATH 1840/1850 sequence.
- ⁴ CHEM 1120/21 may be substituted for PHYS 2020/21
- ⁵ Co-op Ed (ENTC 4989-99) may be substituted for ENTC 3600 or ENTC 4600.
- ⁶ ENTC / CSCI electives may be chosen from any of the specialty sequence offerings or any of the following: ENTC 4217, 4347, 4900, 4957, 4989/99 or CSCI 1250, 1310, 1710, 1800, or 2100.
- ⁷ 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.

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 3710	Manual CNC Programming		3				X
ENTC 4357	CIM Applications		3				X
ENTC 4037	Quality Assurance I		3				
ENTC 4777	Safety Management		3				X
Part IIIb - Technical Support Core Courses							
CSCI 2100	Introduction to "C"		4				
MATH 1720	Precalculus		3				
MATH 1840 ³	Analy Geometry & Diff. Calc.		3				
MATH 1850 ³	Integral Calc. for Technology		3				
PHYS 2020/21 ⁴	Gen. Physics II-NonCalc Lect/Lab		4		X		
Manufacturing & Technical Support Core Total			40				

Part IV - Specialty Sequences (Choose One) ⁷			Prof.				
Programming & Automation Sequence			Cr.	Gr.	W	O	T
ENTC 2320	Electronics I		4				
ENTC 3370	Electronics—Digital Circuits		4				
ENTC 4277	Instrumentation & Process Control		4				
ENTC 4337	Microprocessors I		4				X
<i>Choose any three or more of the following classes</i>							
ENTC 3350	Industrial Electronics		3				
ENTC 4287	Introduction to Robotics		3				
E ⁶ ENTC / CSCI Elective			4				
E ⁶ ENTC / CSCI Elective			4				
Program Total w/ Prog. & Autom. Sequence			128				

General Manufacturing Sequence			Prof.				
			Cr.	Gr.	W	O	T
ENTC 3010	Statics & Strength of Materials		3				
ENTC 3240	Engr Materials & Materials Testing						
or ENTC 3620	Thermal & Fluid Technologies		4				
ENTC 4257	Plant Layout & Materials Handling		3				
<i>Choose any five or more of the following classes</i>							
ENTC 3600 ⁵	Manufacturing Technology		3				
ENTC 3680	Polymers and Composites		3				
ENTC 4227	Engineering Economy		3				
ENTC 4237	Ergonomics and Process Optimization		4				
ENTC 4247	Operational Analysis		3				
E ⁶ ENTC / CSCI Elective			4				
E ⁶ ENTC / CSCI Elective			4				
Program Total w/ General Manuf. Sequence			128				

UIT Grad Rqmt: CSCI 1100 Course or UIT proficiency exam

Notice of Intention to Graduate: Filed / /

Advisor Notes:

Advisor: _____ / /

Transfer/Substitution Memo Sent _____ / /