



BS Degree in Manufacturing Engineering Technology

(For students entering the program in the Fall 2007-Fall 2010 academic years)

FALL

First Year

MATH102 Intermediate Algebra	4 ¹
or	
Social Science Elective	3
EGME110 Manufacturing Processes I	3
EGME141 Solid Modeling	3
ENGL110 First-Year Composition I	3
EGNR101 Introduction to Engineering	<u>2</u>
	14

SPRING

ENGL111 First-Year Composition II	3
MATH140 Pre-calculus Mathematics	5
CHEM115 General Chemistry I	5
EGEE125 Digital Fundamentals	<u>4</u>
	17

Second Year

PHYS221 Elements of Physics I	4
EGNR265 "C" Programming	3
EGET110 Applied Electricity	4
MATH207 Principles of Statistical Methods	3
Free Elective	<u>1</u>
	15

COMM101 Fund. of Speech Com.	3
EGMT225 Statics & Strength of Materials	4
EGME240 Assembly Modeling and GD&T	3
EGRS215 Robotics Technology I	2
EGET175 Applied Electronics	<u>4</u>
	16

Third Year

MATH112 Calc. for Business and Life Science	4
EGRS380 Robotics Technology II	2
EGRS381 Robotics Technology Lab	1
EGNR310 Advanced Quality Engineering	4
EGNR140 Lin. Algebra & Num. Methods for Eng.	2
Free Elective	<u>3</u>
	16

EGRS365 Prog. Logic Controllers	3
EGME275 Engineering Materials	3
EGME276 Strength of Materials Lab	1
EGMT310 CNC Manufacturing Proc.	4
EGNR245 Appl. of Cal. for Tech.	<u>3</u>
	14

Summer

Cooperative Education ⁴	2
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Fourth Year

EGNR491 Engineering Design Project I	3
EGRS480 Manufacturing Automation	3
EGRS481 Manufacturing Automation Lab	1
HUMN251 Humanities I	4
Technical Elective ³	<u>3/4</u>
	14/15

EGNR495 Engineering Design Project II	3
Cultural Diversity Elective	3
ECON302 Managerial Economics ²	4
Humanities/Aesthetics Elective	3
MGMT360 Principles of Management	<u>3</u>
	16

Minimum Total credits required to complete BS degree = 124

¹Students placed in MATH102 should take the social science elective in a summer or later semester. The MATH102 course credits (4 credits) do not apply towards the total credits required for the B.S. degree program.

²These courses may be offered only every other year.

³For the Minor in Robotics Technology: EGRS430 Systems Integration and Machine Vision (4 credits) course is required for the technical elective. Suggested Technical Electives for the General Option: EGEE250 Micro-Controller Fundamentals (4 credits), or EGME410 Vehicle Development & Testing (1.5 credits), or EGMT332 Thermodynamics and Heat Transfer for Technologists (4 credits) or MGMT375 Introduction to Supply Chain Management (3 credits), or MGMT471 Production/Operations Management (3 credits) are suggested technical electives.

⁴If co-op education opportunity is unavailable a technical elective approved by department chair may be substituted