

BS Degree in Electrical Engineering Technology

(For students entering the program in the 2010-2011 academic year)

Freshman Year – Fall Semester

EGME-141 Solid Modeling (2,2)	3
EGNR-101 Introduction to Engineering (1,2)	2
ENGL-110 First-Year Composition I (3,0)	3
MATH-111 College Algebra (3,0)	3
Social Science Elective (3,0)	3
	14

Freshman Year – Spring Semester

CHEM-108 Applied Chemistry (3,0)	3
CHEM-109 Applied Chemistry Lab (0,3)	1
EGEE-125 Digital Fundamentals (3,2)	4
ENGL-111 First-Year Composition II (3,0)	3
MATH-131 College Trigonometry (3,0)	3
Cultural Diversity Elective (3,0)	3
	17

Sophomore Year – Fall Semester

COMM-101 Fundamentals of Speech Communication (3,0)	3
EGET-110 Applied Electricity (3,2)	4
EGNR-140 Linear Algebra and Num Methods for Engineers (1,3)	2
MATH-112 Calculus for Business and Life Science (4,0)	4
PHYS-221 Elements of Physics I (3,2)	4
	17

Sophomore Year – Spring Semester

EGET-175 Applied Electronics (3,2)	4
EGNR-245 Calculus Applications for Technology (2,2)	3
EGNR-265 C Programming (3,0)	3
EGRS-215 Robotics Technology I (1,2)	2
PHYS-222 Elements of Physics II (3,2)	4
	16

Junior Year – Fall Semester

EGEE-250 Microcontroller Fundamentals (3,2)	4
EGRS-380 Robotics Technology II (2,0)	2
EGRS-381 Robotics Technology II Lab (0,3)	1
MATH-207 Principles of Statistical Methods (3,0)	3
Humanities Elective (3,0)	3
Technical Elective	3-4
	16-17

Junior Year – Spring Semester

EGEE-355 Microcontroller Systems (3,3)	4
EGET-310 Electronic Manufacturing Processes (3,3)	4
EGRS-365 Programmable Logic Controllers (2,3)	3
MGMT-375 Introduction to Supply Chain Management (3,0)	3
Free Elective	3
	17

Senior Year – Fall Semester

EGEE-320 Digital Design (3,3)	4
EGNR-491 Engineering Design Project I (2,3)	3
HUMN-251 Humanities I (4,0)	4
Technical Elective	3-4
	14-15

Senior Year – Spring Semester

ECON-302 Managerial Economics (4,0)	4
EGNR-310 Advanced Quality Engineering (4,0)	4
EGNR-495 Engineering Design Project II (1,6)	3
Technical Elective (<i>as necessary</i>)	2-4
	13-15

Total Credits: 126

Technical Electives Required for Robotics Technology Minor

EGRS-430 Systems Integration and Machine Vision (3,3)	4
EGRS-480 Control Systems and Automation (3,0)	3
EGRS-481 Control Systems and Automation Lab (0,3)	1