

Degree Requirements		
PREFIX and COURSE NUMBER	COURSE TITLE	CREDIT HOURS
General Education Requirements		
ENGL 1113 or ENGL 1313	Composition I or Critical Analysis and Writing I	3
ENGL 3323	Technical Writing	3
HIST 1103 or HIST 1483 or HIST 1493	Survey of American History (or) American History to 1865 (H) (or) American History Since 1865 (DH)	3
POLS 1113	American Government	3
MATH 2144	Calculus I (A)	4
MATH 2153	Calculus II (A)	3
STAT 4013	Statistical Methods I (A)	3
Click here to enter text.	Course designated (H)	6
PHYS 2014	University Physics I (L, N)	4
SPCH 2713	Intro. to Speech Communications (S)	3
Any course with A, N, L, or S		3
Any upper-division courses from the following: Accounting, Astronomy, Biology, Chemistry, Computer Science, Engineering, Engineering Technology, Entrepreneurship and Emerging Enterprise, Finance, Geology, Legal Studies in Business, Management, Marketing, Mathematics, Physics and Statistics		3
Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course		
College/Departmental Requirements		
ENGR 1111	Introduction to Engineering	1
ENGR 2421	Engineering Data Acquisition	1

MATH 2163	Calculus III	3
MATH 3263 or EET 3423	Linear Algebra and Differential Equations or Applied Analysis	3
EET 2303	Technical Programming	3
EET 1104	Fundamentals of Electricity	4
EET 1244	Circuit Analysis I	4
EET 2544	Pulse and Digital Techniques	4
EET 2633	Solid State Devices and Circuit I	3
MET 1123	Technical Drawing and Basic CAD	3
MET 3223	GD&T	3
MET 2313	Hydraulic Fluid Power	3
ENSC 2113	Statics	3
ENSC 2123 or MET 3003	Elementary Dynamics or Dynamics	3
ENSC 2143	Strength of Material	3
Mechatronics and Robotics Major Requirements		
EET 3373	Programmable Logic Controller Fundamentals	3
MET/EET 3803	Fundamentals of Mechatronics	3
MET 4003	Machine Elements	3
MERO 4213	Industrial Robots	3
EET 4314	Elements of Control	4
MET/EET 4803	Mechatronic Systems Design	3
EET 4903	Mechatronics for Autonomous System	3
MERO 4833	Senior Design I	3
MERO 4843	Senior Design II	3
IEM 3503	Engineering Economic Analysis	3
Click here to enter text.	MERO Related specialty	6
Add additional rows as needed		
Total		122

A minimum average Technical GPA of 2.00 is required. The technical GPA is calculated from all courses counting in the curriculum with a prefix belonging to the degree program or substitutions for these courses.

A grade of 'C' or better is required in all courses with an analytical or natural science designation or engineering or engineering technology prefix.

A grade of 'C' or better is required for courses with the prefix EET/MET/MERO, and any course in physics and mathematics is required to enroll in subsequent courses.

The minimum requirement for the Mechatronics and Robotics degree is 122 hours. In cases where two courses can meet a requirement and they have differing credit hours, the lower credit hour course is typically recommended. The alternatives are largely listed to facilitate transfer into the MERO degree from other programs.