Pre-requisite Flowchart for Required Courses in B.S. Mechatronics Engineering

Freshman Fall
- ENGL 1101 Composition I 3-0-3 Credits
- EDG 1221 Engineering Graphics I 3-0-3 Credits

Freshman Spring
- ENGL 1102 Composition II 3-0-3 Credits
- PHYS 2212 and PHYS 2212L Physics II 3-3-4 Credits
- MATH 2202 Calculus II 4-0-4 Credits
- MATH 2201 Calculus I 3-0-3 Credits
- CHEM 1211 and CHEM 1211L Chemistry I 3-3-4 Credits

Sophomore Fall
- MATH 2306 Differential Equations 3-0-3 Credits
- PHYS 2211 and PHYS 2211L Physics I 3-3-4 Credits
- ENGR 2111 Intermediate Programming for Mechatronics 3-3-4 Credits
- MATH 1190 Calculus I 4-0-4 Credits

Sophomore Spring
- MATH XXXX Mathematics Electives 3-0-3 Credits
- COM 1100 Human Communication 3-0-3 Credits
- ENGR 2214 Statics 3-0-3 Credits
- EE 2301 Circuit Analysis I 3-3-4 Credits
- MTRE 2610 Intermediate Programming for Mechatronics 3-3-4 Credits
- MATH 3260 Linear Algebra 3-0-3 Credits

Junior Fall
- CORE C1 Literature 3-0-3 Credits
- ENGR 3122 Dynamics 3-0-3 Credits
- EE 2501 Digital Logic Design 3-3-4 Credits
- MTRE 3710* Mechanics 3-3-4 Credits
- MATH 3260 Linear Algebra 3-0-3 Credits

Junior Spring
- CORE E1 World History 3-0-3 Credits
- ENGR 3131/32 Strength of Materials / Lab 3-3-4 Credits
- CORE E3 World History 3-0-3 Credits
- EE 3401 Engineering Electronics 3-3-4 Credits
- ENGR 1000 (CORE E1) Engineering Electromagnetics 3-0-3 Credits

Senior Fall
- XXXX Technical Elective 3-3-4 Credits
- MTRE 4010* Advanced Controls 3-3-3 Credits
- CORE E4 Economics 3-0-3 Credits
- MTRE 4010* Advanced Controls 3-3-3 Credits
- MTRE 4000* Mechatronics Systems Design 2-3-4 Credits
- CORE E2 US History 3-0-3 Credits

Senior Spring
- MTRE 4100* Instrumentation and Controls 3-3-4 Credits
- MATH 3260 Linear Algebra 3-0-3 Credits
- CORE C2 Arts 3-0-3 Credits
- MTRE 4100* Instrumentation and Controls 3-3-4 Credits
- ECON 1000 (CORE E1) Economics 3-0-3 Credits
- ENGR 3325* Eng Econ & Decision Analysis 3-0-3 Credits

* Requires Engineering Standing