

## Mechatronics Engineering, B.S.

Southern Polytechnic College of Engineering and Engineering Technology

Year 1 - Fall (16 credits)	Credits	Year 1 - Spring (15 credits)	Credits
ENGL 1101: English Composition I [A1]	3	ENGL 1102: English Composition II [A1]	3
MATH 1190: Calculus [A2]	4	MATH 2202: Calculus II [D1]	4
MTRE 1000: Introduction to Mechatronics Engineering	2	PHYS 2211 + Lab: Principles of Physics I [D2]	4
CHEM 1211 + Lab: Principles of Chemistry I [F]	4	CSE 1321 + Lab: Programming & Problem Solving I [F]	4
EDG 1211: Engineering Graphics I [F]	3		
Total	16	Total	15
Year 2 - Fall (17 credits)	Credits	Year 2 - Spring (16 credits)	Credits
MATH 2306: Ordinary Differential Equations	3	General Education – Cultural Perspectives [B2]	3
PHYS 2212 + Lab: Principles of Physics II [D2]	4	MATH 3260: Linear Algebra I	3
MTRE 2610: Intermediate Program for Mechatronics	3	MATH Elective	3
ENGR 2214: Engineering Mechanics- Statics †	3	ENGR 3122: Engineering Mechanics- Dynamics	3
EE 2301: Circuit Analysis I †	4	EE 2501: Digital Logics Design	4
Total	17	Total	16
Year 3 - Fall (17 credits)	Credits	Year 3 - Spring (14 credits)	Credits
General Education – Literature of the World [C1]	3	General Education – World History [E3]	3
ECON 1000: Contemporary Economic Issues [B1]	3	MTRE 3710: Mechatronics Engineering Fundamentals Δ	4
MATH 2203: Calculus III [F]	3	MTRE 4001: Modeling & Feedback Ctrl Dynamic Sys. Δ	3
ENGR 3131: Strength of Materials	3	MTRE 4002L: Feedback Control Lab	1
ENGR 3132: Strength of Materials Lab	1	ENGR 3343: Fluid Mechanics Δ	3
EE 3401: Engineering Electronics	4		
Total	17	Total	14
Year 4 - Fall (17 credits)	Credits	Year 4 - Spring (17 credits)	Credits
POLS 1101: American Government [E1]	3	General Education – US History [E2]	3
MTRE 4010: Advance Controls Δ	3	General Education – Arts and Cultures of the World [C2]	3
MTRE 4100: Instruments & Controls Δ	4	General Education – Social Sciences [E4]	3
ENGR 3325: Engineering Economic Analysis Δ	3	MTRE 4200: Robotics Analysis & Synthesis Δ	4
Technical Elective	4	MTRE 4800: Mechatronics System Design Δ	4
Total	17	Total	17

Program Total: 129 Credit Hours

**\*Recommended General Education Course †Milestone ΔRequired Elective**

This academic map is a suggested four-year schedule of courses based on degree requirements in the undergraduate catalog. This sample schedule serves as a general guideline to help build a full schedule each term. Missing milestones could delay your program. Also see the current undergraduate catalog for a complete list of requirements, electives, and pre-requisites. This map is not a substitute for academic advisement. Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information.