

Mechanical Engineering, BSME

Southern Polytechnic College of Engineering and Engineering Technology

Year 1 - Fall (16 credits)	Credits	Year 1 - Spring (16 credits)	Credits
ENGL 1101: Composition I [A1]	3	ENGL 1102: Composition II [A1]	3
MATH 1190: Calculus I [A2]	4	MATH 2202: Calculus II [D1]	4
CHEM 1211 + LAB: General Chemistry I [F]	4	General Education – Science Process (STEM) [D2]	4
EDG 1211: Engineering Graphics I [F]	3	ECON 1000: Contemporary Economic Issues [B1]	2
ME 1001: Intro to Mechanical Engineering [F]	2	ME 1311:MATLAB for engineers w/Applications	3
Total	16	Total	16
Year 2 - Fall (17 credits)	Credits	Year 2 - Spring (17 credits)	Credits
General Education – Literature of the World [C1]	3	MATH 2306: Ordinary Differential Equations	3
General Education – Cultural Perspectives [B2]	3	EE 2305: Electric Circuits &. Machines	4
General Education – Science Process (STEM) [D2]	4	ENGR 3122: Engineering Mechanics – Dynamics	3
MATH 2203: Calculus III	4	ENGR 3131: Strength of Materials	3
ENGR 2214: Engineering Mechanics- Statics	3	ENGR 3132: Strength of Materials Lab	1
		ME 3101: Material Science & Engineering	3
Total	17	Total	17
Year 3 - Fall (18 credits)	Credits	Year 3 - Spring (17 credits)	Credits
MATH 2332: Probability and Data Analysis [F]	3	General Education – Social Sciences [E4]	3
ENGR 3125: Machine Dynamics & Vibrations	3	ENGR 4402: Engineering Ethics	1
ENGR 3343: Fluid Mechanics	3	ME 3440: Heat Transfer	3
ENGR 3345: Fluid Mechanics Lab	1	ME 3501: Dynamic Systems & Control Theory	3
ME 3201: Product Realization	2	ME 4141: Machine Design	3
ME 3401: Thermodynamics	3	ME 4250: Computer Aided Engineering	3
ME 3701: Manufacturing Engineering	3	ME 4501: Vibrations & Controls Lab	1
Total	18	Total	17
Year 4 - Fall (16 credits)	Credits	Year 4 - Spring (15 credits)	Credits
General Education – World History [E3]	3	General Education – U.S. History [E2]	3
POLS 1101: American Government [E1]	3	General Education – Arts and Cultures of the World [C2]	3
MATH/Science Elective	3	ME 4202: Senior Design II	3
ENGR 3325: Engineering Economic Analysis	3	Upper-Division Technical Elective (1 of 2)	3
ME 4403: Heat Transfer & Thermodynamics Lab	1	Upper-Division Technical Elective (2 of 2)	3
ME 4201: Senior Design I	1		
Total	16	Total	15

Program Total: 130 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.