

Industrial & Systems Engineering, B.S.

Southern Polytechnic College of Engineering and Engineering Technology

Year 1 - Fall (16 credits)	Credits	Year 1 - Spring (14 credits)	Credits
ENGL 1101: English Composition I [A1]	3	ENGL 1102: English Composition II [A1]	3
MATH 1190: Calculus I [A2]	4	MATH 2202: Calculus II [D1]	4
CHEM 1211 + Lab: Principles of Chemistry [D2]	4	General Education – Cultural Perspectives [B2]	3
ISYE 1000: Introduction to ISE [F]	3	PHYS 2211 + Lab: Principles of Physics I [D2]	4
EDG 1210: Survey of Engineering Graphics	2		
Total	16	Total	14
Year 2 - Fall (17 credits)	Credits	Year 2 - Spring (18 credits)	Credits
General Education – US History [E2]	3	ECON 1000: Contemporary Economic Issues [B1]	2
PHYS 2212/Lab, CHEM 1212/L, or BIOL 1107/L [F]	4	MATH 3260: Linear Algebra I	3
CSE 1321 + Lab: Programming & Problem Solving I [F]	4	ENGR 1100: Survey of Engineering Apps from Math	4
ISYE 2600: Applications of Probability	3	ENGR 2214: Engineering Mechanics - Statics	3
TCOM 2010: Technical Writing	3	ENGR 3325: Engineering Economic Analysis Δ	3
		ISYE 3150: Design & Improvement of Quality Processes Δ	3
Total	17	Total	18
Year 3 - Fall (15 credits)	Credits	Year 3 - Spring (18 credits)	Credits
POLS 1101: American Government [E1]	3	ACCT 2100: Introduction to Financial Accounting	3
General Education – Literature of the World [C1]	3	General Education – Social Sciences [E4]	3
ENGR 3250: Project Management for Engineers Δ	3	ISYE 3125: Statistical Quality Control Δ	3
ISYE 3450: Human Factors Engineering Δ	3	ISYE 3350: Logistics & Supply Chain Systems Δ	3
ISYE 3600: Statistics with Applications Δ	3	ISYE 3400: Deterministic Operations Research	3
		ISYE 4425: Facilities Planning & Material Handling Δ	3
Total	15	Total	18
Year 4 - Fall (15 credits)	Credits	Year 4 - Spring (14 credits)	Credits
General Education – World History [E3]	3	General Education – Arts and Cultures of the World [C2]	3
ISYE 4200: Engineering Optimization- Stochastic Decision Models Δ	3	ENGR 4402: Engineering Ethics Δ	1
ISYE 4250: Manufacturing & Service Systems Δ	3	ISYE 4900: Senior Design Project Δ	3
ISYE 4500: Systems Modeling & Simulation Δ	3	ISYE Technical Elective (2 of 3)	4
ISYE Technical Elective (1 of 3)	3	ISYE Technical Elective (3 of 3)	3
Total	15	Total	14

Program Total: 127 Credit Hours

***Recommended General Education Course †Milestone Δ Required 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.