

B.S. Engineering Science

Plan of Study

	FALL 3 WK	FALL 12 WK	SPRING 12 WK	SPRING 3 WK
FIRST YEAR	CORE 110 Design Thinking	ENGR 110 Intro to Engineering w/lab MATH 123 Calculus I CHEM 131 General Chemistry I CHEM 141 General Chemistry Lab CORE 120 The Mindful Writer	ENGR 120 Engineering Analysis ENGR 215 Materials Science & Engineering w/lab MATH 124 Calculus II PHYS 171 General Physics I w/lab CORE	
SOPHOMORE	CORE	ENGR 205 Statics & Strength of Materials MATH 223 Calculus III PHYS 172 General Physics II w/lab ENGR 125 Intro Computer Science w/lab	ENGR 206 Dynamics & Kinematics MATH 205 Statistics CORE CORE	ENGR 232 Engineering Design in the Community
JUNIOR	PHYS 223 Intmd. Physics Lab	ENGR 221 Electrical Circuits w/lab ENGR 307 Thermal & Fluid Systems w/lab MATH 328 Ordinary Differential Equations PHYS 215 MATLAB Programming	ENGR 324 Mechatronics w/lab ENGR 341 Theory of Structures ENGR 378 Engineering Co-op (Usually Summer) BUSN 326 Project Selection CORE	CORE
SENIOR		ENGR 3XX Engineering Elective ENGR 415 Systems Modeling & Controls ENGR 451 Capstone Design I CORE	ENGR 300 FE Exam Review ENGR 3XX Engineering Elective ENGR 452 Capstone Design II Math/Sci Elective CORE	ENGR 453 Capstone Design III

Math/Science Requirement:

Including the required credits from CHEM, MATH, and PHYS above, majors must complete 32 credits selected from BIOL (excluding BIOL 103), CHEM (excluding CHEM 119, 120, and 125), MATH (excluding MATH 106, 113, 211, and 213), PHYS (excluding PHYS 113, 114, and 122), and ENVR 203, 235, 271, 325, 344, and/or 382.



The engineering science program at Sweet Briar College is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.