B.S. Engineering Science
Plan of Study

	Fall 3 week	Fall 12 week	Spring 12 week	Spring 3 week
First Year	CORE 110 Design Thinking	ENGR 110 Introduction 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 MATH 124 Calculus II PHYS 171 General Physics I w/lab CORE	CORE
Sophomore	CORE	ENGR 205 Statics & Strength of Materials MATH 223 Calculus III PHYS 172 General Physics II w/lab ENGR 125 Intro to Computer Science	ENGR 206 Dynamics and Kinematics MATH 328 Ord. Differential Equations ENGR 221 Electrical Circuits w/lab CORE	ENGR 232 Engineering Design in the Community
Junior	PHYS 233 Intmd. Physics Lab	ENGR 307 Thermal & Fluid Systems w/lab MATH 205 Applied Statistics PHYS 215 Matlab Programming ENGR 324 Mechatronics w/lab	ENGR 341 Theory of Structures BUSN XXX Business Elective ENGR 378 Engineering Co-op (usually summer) CORE	CORE
Senior		ENGR 3XX Engineering Elective ENGR 415 Systems Modeling & Controls ENGR 451 Capstone Design I CORE	ENGR 452 Capstone Design II ENGR 3XX Engineering Elective ENGR 300 FE Exam Review 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.

Business Elective:

Any BUSN course may be used to satisfy this requirement except for BUSN 127 or BUSN 227

ABET Engineering Accreditation Commission

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