

Engineering Science, B.S. Plan of Study

Name: _____ **Expected Date of Graduation:** _____

Student ID: _____ **Adviser:** _____

Math & Science Core

8 credits from MTH 111, 112, 211, 264

(1)	MTH	_____
(2)	MTH	_____
MTH	212	Calculus III
MTH/ SDS	220	Probability & Statistics
CHM	111	Chemistry I: General Chemistry
PHY	210	Mathematical Methods
PHY	117	Introductory Physics I OR
PHY	119	Advanced Introductory Physics

Credits	Year / Term Taken	Transfer (# of credits on transcript)	AP / IB / Cam. A-level (# of credits)	Notes
(4 cr.)				
(4 cr.)				
(4 cr.)				
(5 cr.)				
(5 cr.)				
(4 cr.)				
(5 cr.)				

Lab-based science course, choose one: PHY 118, PHY 119, CHM 118, CHM 222, BIO 130/131, BIO 132/133 (PHY 119 can fulfill the introductory physics requirement **OR** the 5 credit lab based science course requirement but not both)

(1) _____	(5 cr.)			
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Subtotal Math & Science credits, nominally 36 cr. (ABET min = 32 cr.)

Note: If AP/IB/A-level exam credit is used toward these requirements, credits must appear on the official Smith transcript. If transfer credits are used to fulfill math/science requirements and the credits are fewer than those associated with the Smith course, the student may need to take additional courses to satisfy the 32-credit math/science ABET minimum requirement. Computer science is required for the major, but does not count as a basic science.

Computer Science

CSC	111	Introduction to Computer Science Through Programming (or other approved CS course)	(4-5 cr.)				
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Engineering Core

EGR	100	Engineering for Everyone	(4 cr.)
EGR	110	Fundamental Engineering Principals	(4 cr.)
EGR	220	Engineering Circuit Theory	(5 cr.)
EGR	270	Engineering Mechanics	(5 cr.)
EGR	290	Engineering Thermodynamics	(4 cr.)
EGR	374	Fluid Mechanics	(5 cr.)
EGR	410D	Engineering Design and Professional Practice	(2 cr.)
EGR	Capstone	Pick one: EGR 421D, 422D, 431D)	(6 - 8 cr.)

Year / Term Taken	Transfer (# of credits on transcript)	Notes

Five (5) Engineering Technical Depth Courses

(Only one may be at the 200-level.)

(1) _____	(4 cr.)			
(2) _____	(4 cr.)			
(3) _____	(4 cr.)			
(4) _____	(4 cr.)			
(5) _____	(4 cr.)			

Subtotal Engineering credit hours, nominally 55 cr. (ABET min = 48 cr.)

Note: If transfer credits are used to fulfill engineering course requirements and the credits granted are fewer than those associated with the Smith course, the student may need to take additional EGR courses to satisfy the 48-credit ABET minimum requirement for engineering content.

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Name: _____ Expected Date of Graduation: _____

Liberal Arts Breadth: Latin Honors (20-24cr.) or minor/major in Div I or Div II (usually 24cr.)

Latin Honors Option

	Year / Term Taken	Transfer (# of credits on transcript)	Notes
(A) Art _____ (cr.)			
(F) Language _____ (cr.)			
(L) Literature _____ (cr.)			
(H) History _____ (cr.)			
(S) Social Science _____ (cr.)			

OR

Minor (or Major) in: _____

List at least 5 courses taken for minor/major:

(1) _____ (cr.)			
(2) _____ (cr.)			
(3) _____ (cr.)			
(4) _____ (cr.)			
(5) _____ (cr.)			
(6) _____ (cr.)			

Teamwork Documentation:

Teamwork outcome: an ability to work collaboratively in teams with different skills and perspectives.

I have satisfied this outcome at the advanced level via:

- ☐ Capstone Experience
- ☐ Other (Attach one page description)
- ☐ Technical Depth with strong emphasis on teamwork. List the course(s): _____
- _____
- _____

Print Student Name

Student Signature _____ Date

Print Adviser Name

Adviser Signature _____ Date

Print Assistant Director Name

Assistant Director Signature _____ Date