

**Typical Academic Pathways for Course 16-ENG Students  
Entering the Department in the Fall Term of the Sophomore Year  
and Selecting the 16.82x Capstone**

Subject & Units	Institute Requirement	Units Beyond GIRS
<b>1. Freshman Year</b>		
<u>Fall Term</u>		
3.091-Intro to Solid-State Chemistry (12)	CHEM	
8.01-Physics I (12)	PHYS	
18.01-Calculus I (12)	CALC	
HASS (12)	HASS	
<b>Term Units = 48</b>		
<u>Spring Term</u>		
7.012-Introductory Biology (12)	BIO	
8.02-Physics II (12)	PHYS	
18.02-Calculus II (12)	CALC	
18.03 Differential Equations (12)	REST	
HASS (9), CI-H	HASS	
<b>Term Units = 57</b>		
<b>2. Sophomore Year</b>		
<u>Fall Term</u>		
16.001-Unified Engineering I (12)	REST	
16.002-Unified Engineering II (12)		12
*6.0001 Intro to Computer Programming in Python, 6, REST (1/2)		6
*6.0002 Intro to Computational Thinking & Data Science, 6, REST (1/2), 6.0001		6
HASS (12), CI-H	HASS	
<b>Term Units = 48</b>		
<u>Spring Term</u>		
16.003-Unified Engineering III (12)		12
16.004-Unified Engineering IV (12)		12
Elective (12)		12
HASS-D (12)	HASS-D	
<b>Term Units = 48</b>		
<b>3. Junior Year</b>		
<u>Fall Term</u>		
16.06-Principles of Automatic Control (12)		12
Concentration Subject #1 (12)		12
Concentration Subject #2 (12)		12
Concentration Subject #3 (12)		12
<b>Term Units = 48</b>		
<u>Independent Activities Period</u>		
A six-unit elective, i.e. UROP-for-credit		6

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\* Students who entered Course 16 prior to Fall 2014 would have completed 1.00.

**Pathways for 1<sup>st</sup> Term Sophomores (cont'd)**

<u>Spring Term</u>		
Concentration Subject #4 (12)		12
Concentration Subject #5 (12)		12
Elective (6)		6
HASS (12)	HASS	
HASS-D (12)	HASS-D	
<b>Term Units = 54</b>		
<b>4. Senior Year</b>		
<u>Fall Term</u>		
16.82 Flight Vehicle Engineering (12), CI-M		12
Elective (12)		12
Elective (12)		12
HASS-D (12)	HASS-D	
<b>Term Units = 48</b>		
<u>Independent Activities Period</u>		
A six-unit elective, i.e. UROP-for-credit		6
<u>Spring Term</u>		
16.821 Flight Vehicle Development (18), CI-M	LAB	6
Concentration Subject #6 (12)		12
Elective (6)		6
HASS (12)	HASS	
<b>Term Units = 48</b>		
<b>TOTAL UNITS BEYOND GIRS</b>		<b>198</b>