### 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**
--- | --- | ---

#### 1. Freshman Year

**Fall Term**
- 3.091-Intro to Solid-State Chemistry (12)  
  CHEM
- 8.01-Physics I (12)  
  PHYS
- 18.01-Calculus I (12)  
  CALC
- HASS (12)  
  HASS

**Term Units = 48**

**Spring Term**
- 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

**Term Units = 57**

#### 2. Sophomore Year

**Fall Term**
- 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

**Term Units = 48**

**Spring Term**
- 16.003-Unified Engineering III (12)  
  12
- 16.004-Unified Engineering IV (12)  
  12
- Elective (12)  
  12
- HASS-D (12)  
  HASS-D

**Term Units = 48**

#### 3. Junior Year

**Fall Term**
- 16.06-Principles of Automatic Control (12)  
  12
- Concentration Subject #1 (12)  
  12
- Concentration Subject #2 (12)  
  12
- Concentration Subject #3 (12)  
  12

**Term Units = 48**

**Independent Activities Period**

A six-unit elective, i.e. UROP-for-credit  
  6

---

* Students who entered Course 16 prior to Fall 2014 would have completed 1.00.
Pathways for 1st Term Sophomores (cont’d)

Spring Term
Concentration Subject #4 (12)  12
Concentration Subject #5 (12)  12
Elective (6)  6
HASS (12)  HASS
HASS-D (12)  HASS-D

Term Units = 54

4. Senior Year

Fall Term
I6.82 Flight Vehicle Engineering (12), CI-M  12
Elective (12)  12
Elective (12)  12
HASS-D (12)  HASS-D

Term Units = 48

Independent Activities Period
A six-unit elective, i.e. UROP-for-credit  6

Spring Term
I6.821 Flight Vehicle Development (18), CI-M  LAB  6
Concentration Subject #6 (12)  12
Elective (6)  6
HASS (12)  HASS

Term Units = 48

TOTAL UNITS BEYOND GIRS  198