

# Course 20 Roadmap

## Guide to Constructing Your Personal Roadmap

The Course 20 roadmap included in this document serves as a guide to plan your progress through the major. You should construct your personal roadmap with your advisor and are encouraged to meet at least once each term to review your academic plan.

Freshman year:

- Some students take 5.12, 18.03 or 6.0001/2 freshman year.

Sophomore year:

- 6.00 (or 6.0001/6.0002) may be taken fall or spring term sophomore year. While it is recommended that you take 6.00, we will accept 1.00 (Java-based) or 6.01 on petition. We recommend that you ask in advance if you want to make such a substitution. The subject 20.320 presumes a facility with the Python programming language.
- 20.109 may be taken spring term, though most students take it during the fall term junior year. Some students wait to take 20.109 spring of junior year. 7.02 can be substituted either term. 20.129 can be substituted in the spring, though the latter does not fulfill the pre-med requirement as 7.02 and 20.109 do.
- 20.109 and 20.129 and 7.02 all fulfill the first CI-M requirement.
- 20.309 may be taken spring term, though most students will take it their junior year.
- If planning to take 7.05 spring term sophomore year, completion of 5.12 by the end of fall term sophomore year is recommended. Students who do not complete 7.05 (or 5.07) in sophomore year must take 5.07 fall term junior year.
- Many students take 7.03 in sophomore year.
- Students may take 20.110J/2.772J in the fall or spring.
- If you're planning to pursue a Concentration by taking three restricted electives in the same area, it's helpful to start planning your roadmap for Junior and Senior years and consult with your advisor.

Junior year:

- 20.320 should be completed fall term.
- 20.330 should be completed spring term.
- 20.109 and 7.06 should be completed by the junior year.
- 7.06 is recommended in the fall if 7.03 is completed sophomore year.
- 20.309 can be taken fall or spring junior year.

Senior year:

- 20.380 will fulfill the second CI-M requirement and can be taken either fall or spring semester.
- Must complete all remaining BE and Institute requirements

BE requires a **minimum grade of "C"** in core prerequisite subjects, including the GIRs as well as the Course 6 and Course 7 subjects listed.

The departmental limit on UROP for credit is 15 units a term

**Course 20 Roadmap**  
**BE Dept Required subjects are shown in Bold**

	FALL		SPRING
Year 1	8.01 (12)		7.01x (12)
	5.111/3.091 (12)		8.02 (12)
	18.01 (12)		18.02 (12)
	HASS (12 CIH)		Elective (12)
Year 2	<b>20.110</b> (12)		<b>18.03</b> (12)
	<b>5.12</b> (12)		<b>7.05</b> (12)
	<b>6.00</b> (12)		HASS (12)
	HASS (12 CIH)		Elective (12)
	Elective (6)		
Year 3	<b>7.03</b> (12)		<b>20.330</b> (12)
	<b>20.320</b> (12)		<b>7.06</b> (12)
	<b>20.109</b> (15 CIM)		<b>20.309</b> or <b>20.Elective</b> (12)
	HASS (12)		HASS (12)
			Elective (6)
Year 4	<b>20.380</b> (12 CIM)		<b>20.Elective</b> (12)
	<b>20.Elective</b> or <b>20.309</b> (12)		<b>20.Elective</b> (12)
	Elective (12)		HASS (12)
	HASS (12)		HASS (12)

*Note: 20.109 or 20.309 can be taken as early as Yr 2 spring if the prerequisites have been met*