

# Sample Science Sequences:

The following is a current but potentially incomplete list of sequences of courses that satisfy the requirement: *"two courses are in a laboratory science with the first course prerequisite to the second course."*

- Any course used for the science requirement must have an "NS" designation in the catalog (and there are some CHM, BIOS, and EES courses that are not "NS" but rather "ND," meaning "not designated"). The sum of all the NS-designated science credits must be at least 12.
- We note which courses include a lab and note cases where there is a separate optional lab course..
- We list here only courses that contribute to a prerequisite sequence. These sequences add up to between 7 and 9 credits. The remaining credits to reach a total of 12 may consist of any NS-designated courses.
- The exact set of courses available depends on what each science department offers each semester. We do not receive any advance notification of plans from the various departments. In recent years, PHY 013 has been spring only, EES 131 has been spring only, and EES 152 has been fall only. The required labs for EES 131 and 152 typically conflict with CSB 312/313 so students planning for those courses must plan very carefully in advance.

**Astronomy** [ ] indicates optional 1-credit lab  
PHY 005 Concepts in Physics (4, includes a lab)  
followed by ASTR 105 Introduction to  
Planetary Astronomy (3)  
PHY 010 (4) General Physics I [PHY 012]  
followed by ASTR 105 Introduction to  
Planetary Astronomy (3)  
PHY 011 Introductory Physics I (4) [ PHY 012],  
followed by ASTR 105 Introduction to  
Planetary Astronomy (3)

## Earth and Environmental Science

EES 021 Introduction to Planet Earth (3)  
plus lab EES 022 Exploring Earth (1) followed  
by EES 131 Introduction to Rocks and  
Minerals (4)  
EES 025 The Environment and Living Systems (3)  
plus lab EES 022 Exploring Earth (1) followed  
by EES 152 Ecology (4)  
EES 028 Conservation and Biodiversity (3)  
plus lab EES 022 Exploring Earth (1) followed  
by EES 152 Ecology (4)

### EES scheduling notes:

EES 152 typically conflicts with CSB 313 fall senior year, so you **must** complete 152 by fall junior year. EES 131 typically has one of two lab sections conflicting with CSB 312.

Students who are minoring in EES may take a two-course sequence consisting of EES 080 and one of EES 115, 131, 153, 200. The EES minor requires a total of 15 credits in EES (3 more credits than the 12 needed if the full CSB science requirement is done with EES courses)

## Chemistry

CHM 030 Introduction to Chemical Principles (4, includes a lab), CHM 031 Chemical Equilibria in Aqueous Systems (4)  
CHM 030 Introduction to Chemical Principles (4, includes a lab), CHM 110 Organic Chemistry (3)  
CHM 030 Introduction to Chemical Principles (4, includes a lab), BIOS 041 Biology Core I: Cellular and Molecular (3)  
CHM 040 Concepts, Models & Experiments (4, includes a lab), CHM 41 Concepts, Models & Experiments II (4, includes a lab)  
CHM 040 Concepts, Models & Experiments (4, includes a lab), CHM 110 Organic Chemistry (3) [CHM 111],  
CHM 040 Concepts, Models & Experiments (4, includes a lab), BIOS 041 Biology Core I: Cellular and Molecular (3)

## Biology

CHM 30 Introduction to Chemical Principles (4, includes a lab), BIOS 41 Biology Core I: Cellular and Molecular (3)

## Physics

 [ ] indicates optional 1-credit lab

PHY 011 Introductory Physics I (4) [PHY 012],  
PHY 021 Introductory Physics II (4) (note that  
PHY 021 has a prerequisite of MATH 022)  
PHY 010 General Physics I (4) [PHY 012], PHY  
13 General Physics (3)  
PHY 011 Introductory Physics I (4) [ PHY 012],  
PHY 013 General Physics (3)

