

**Chemistry Department
OCCIDENTAL COLLEGE**

**SUGGESTED COURSE STUDY FOR 3-2 COMBINED PLAN IN ENGINEERING
Chemical Sequence**

(August 2021)

The courses in the chemical sequence prepare students for two years of work leading to the degree of Bachelor of Science at the California Institute of Technology or the School of Engineering at Columbia University. This sequence is appropriate for students planning to pursue Chemical Engineering. Questions about the chemical sequence should be addressed to Prof. Craney in Chemistry; students with general questions about the 3-2 Program should contact Prof. Schramm in Physics.

Fall

Year 1:

CSP
Physics 110
Chem. 120/130
+Calculus I

Year 2:

*Core/Language
Chem. 221
Physics 230
Math 212/214
#Chem. 150

Year 3:

*Core/Language
Chem. 300
Chem. 340
Physics 310

Spring

CSP
Physics 117
Chem. 220
+Calculus II

*Core/Language
Chem. 240
CS 131
Math 214/212
#Chem. 150

*Core/Language
%Chem. 305
[Chem. 201, 332, or 350]
‡Econ 101

*Students are advised to choose courses which satisfy more than one Core distribution requirement. If foreign language proficiency is met with fewer than two courses, additional electives may be chosen from any department.

+Prospective 3-2 students must place into Math 110 or above. Please consult the Mathematics Department for details.

1-unit course

‡Econ 101 is required to qualify for Columbia's guaranteed admission

%Phys 240 may be substituted for Chem. 305.

Recommended electives in mathematics, physics, and computer science are the following courses: *Math 340; 342 Physics 350 CS 229*