Department of Computer Science
OCCIDENTAL COLLEGE

SUGGESTED COURSE STUDY FOR 3-2 COMBINED PLAN IN ENGINEERING
Computer Science Sequence
(August 2021)

The courses in the computer science 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. Questions about this sequence should be addressed to Prof. Jeff Miller; students with general questions about the 3-2 Program should contact Prof. Alec Schramm.

Fall	**Spring**

Year 1:

FYS	FYS
Physics 110	Physics 117
+Calculus I	+Calculus II
CS 131	CS 229

Year 2:

*Foreign Language I	*Foreign Language II
#Core	#Core
Physics 230	CS 239
%Math 210/212/214	%Math 210/212/214

Year 3:

CS 317	Chem 120 or 130
%Math 210/212/214	Math 340
Physics 310	#Core
#Core/Elective	†Econ 101

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

#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 take Math 210, 212 and 214 rather than CS 149 and 307.

† Econ 101 is required by Columbia

Recommended electives in mathematics and computer science are the following courses:

CS 313: Graphics	*Math 150: Statistical Data Analysis*
CS 349: Robotics	*Math 322: Number Theory*
CS 383: Computer Security	*Math 350: Mathematical Logic*
CS 337: Programming Languages & Compilers	*Math 352: Complexity and Computability*
CS 379: Operating Systems	*Math 370: Numerical Analysis*
	Math 380: Combinatorics