

## CCS CHEMISTRY and BIOCHEMISTRY MAJOR, B.A. 2017-18

### BIOCHEMISTRY TRACK

#### LOWER DIVISION

SUBJECT	COURSES	UNITS
General Chemistry	CHEM 1A, 2A or CCS 103A; 1B,2B or 103B; 1C, 2C or 103C	9
General Chemistry Lab	CHEM 1AL, 1BL or 2BC, 1CL or 2CC	6
Mathematics	MATH 3A, 3B, 4A, 6A	16
Physics	PHYS 1, 2, 3, 4 or PHYS 6A, 6B, 6C	9 or 14
Physics Lab	PHYS 3L, 4L or PHYS 6AL, 6BL, 6CL	2 or 3
Organic Chemistry Lab	CHEM 6AL, 6BL or 6BH, 6CL or 6CH	9

#### UPPER DIVISION

SUBJECT	COURSES	UNITS
Organic Chemistry	CHEM 109A or 109AH, 109B or 109BH, 109C or 109CH	12
Biophysical Chemistry	CHEM 112A, 112B, 112C	12
Biochemistry	CHEM 142A, 142B, 142C	9
Biochemistry Lab (two of the following)	CHEM 110L, and 125L or 112L	7-8
Inorganic Chemistry	CHEM 173A	3
Upper Division Biochemistry Electives	CHEM 141, 143, 145, 146, 147, 151, 154A-B, 161, 162A, 162B, 171, 181 CHEM 102, 183, 184, 192, 193, 196, 199 will not apply.	3

#### MAJOR REGULATIONS

PREREQUISITES	Check the General Catalog for the prerequisites to all listed courses.
P/NP or P/NR GRADING OPTION	Not allowed for any major course including courses applied to the major from other departments except for CCS Chem/Biochem courses.
SUBSTITUTIONS	Substitutions in the major requirements permissible only with prior faculty advisor approval.
G.P.A REQUIREMENTS	At least 2.0 overall UC average in all upper-division major courses and all courses required for the major, including courses in excess of minimum requirements.
DOUBLE MAJORS	Up to a total of 8 units may be applied simultaneously to both UD majors.
GENERAL EDUCATION	Please check the <i>UCSB General Catalog</i> for list of CCS general education requirements.