

Physical Science Major (STEM Preparation)

Contacts

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Major Core Requirements (8 units)

Math 108	Introduction to Trigonometry (S)	1
Math 110	College Algebra (F/S)	4
Math 116	Pre-Calculus (F/S)	4
Math 202	Statistics (F/S)	4
Math 218	Calculus I (F)	4
Math 220	Calculus II (S)	4

Elective Units (28 units)

Units taken in mathematics beyond 8, can be used towards achieving 28 elective unit total.

Biol 102	Cellular and Molecular Biology (F)	4
Chem 100	Introduction to Chemistry (Occ.)	4
Chem 102	Inorganic Chemistry I (F)	5
Chem 104	Inorganic Chemistry II (S)	5
Chem 106	Introduction to Organic Chemistry (Occ.)	5
Envr/Geog 201	Geographic Information Systems (S)	3
Geog 102	Physical Geography (F/S)	3
Geol 102	Physical Geology (F/S)	4
Phys 100	Concepts in Physics (Occ.)	3
Phys 102	General Physics I (algebra based) (F)	4
Phys 104	General Physics II (algebra based) (S-Occ.)	4
Phsc 120	Astronomy (F)	3

Total Major Requirements**36**

To earn an A.S. in physical Science:

- Complete all major requirements
- Complete FRC General Education Requirements, CSU Breadth*, or IGETC* requirements (*strongly advised)
- Complete a total of 60 units

Electives Recommended for an Earth Science Emphasis – Geol 102, Chem 102, Chem 104, Math 218, Math 220

Electives Recommended for a Chemistry Emphasis – Chem 102, Chem 104, Chem 106, Math 218, Math 220

Prospective Two Year CSU Transfer Plan (w/ FRC Associates in Physical Science)

Students are encouraged to choose CSU Breadth courses that also align with the IGETC pattern to satisfy UC requirements.

Fall		Spring	
Core Physical Sci- Math (CSU B4/IGETC 2)*	4	Core Physical Sci – Math	4
Major Elective – Rec. Chem 102 (CSU B1-B3/IGETC 5A)	4-5	Major Elective- Rec. Chem 104 (CSU B1-B3/IGETC 5A)	4-5
Major Elective – Rec. Biol 102 (CSU B2/IGETC 5B)	3-4	English 101 (CSU A2/IGETC 1A)	3-4
English 10	4	CSU D/IGETC 4 (Soc. or Hist)	3
FACS 170 or HES 100 (CSU E & FRC F)	3	History 108 or 110 (CSU C2/IGETC 3 Hum.)	3
	18-19		17-18
Fall		Spring	
Core Physical Sci –Math (<i>or elective, if completed Cal. II</i>)	4	Core Physical Sci – Math (<i>or elective, if completed Cal. II</i>)	4
Major Elective	3--4	Major Elective	3-4
English 120 (CSU A1/IGETC 1C)	3	English 103 (CSU A3/IGETC 1B)	3
CSU C1/IGETC 3 Art (Arts and Lit)	3	Political Sci 101 (CSU D8/IGETC 4G)	3
CSU D/IGETC 4 (excluding D8/4G – Soc, or History)	3-4	CSU C1 or C2/ IGETC 3 (Arts and Lit)	3
	16-17	<i>May need another major elective to reach 28 units</i>	0-3
			16-19

*IGETC 2 for UC can only be fulfilled by Math 202, 218 and 220

An additional foreign language course is required for acceptance to UC.