



PHYSICS

Degree Options:

- Associate of Science
- Associate of Arts

Program Description:

The physics courses at CEU are organized on 3 levels. The first level, PHYS 1010 Elementary Physics, and PHYS 1050 Technical Physics, emphasize the concepts of physics. While these courses use math, they are not math intensive. The second level is the PHYS 2010/2020 General Physics series. This two semester series is aimed at life science and pre-med students. Math is required, but not beyond Trigonometry. The course covers material in more detail than the PHYS 1010 course. The last level is the PHYS 2210/2220 Physics for Scientists and Engineers series. This two semester series is aimed at engineering majors and physical scientists. These courses are the most in-depth and involve the most problem solving and higher mathematics.

Recommended Course of Study

First Year:

		<u>Fall Semester</u>	
MATH 1210	Calculus I	4	4
CHEM 1210	General Chemistry I	4	4
CHEM 1215	General Chemistry I Lab	1	1
ENGN 1000	Introduction to Engineering	2	2
ENGN 1005	Intro. to Engineering Lab	1	1
ENGL 1010	Introduction to Writing*	3	3
Electives or General Education		3	3
Semester Total		18	18

		<u>Spring Semester</u>	
MATH 1220	Calculus II	4	4
CHEM 1220	General Chemistry II	4	4
CHEM 1225	General Chemistry II Lab	1	1
ENGL 2010	Intermediate Writing*	3	3
Electives or General Education		6	6
Semester Total		18	18

Second Year:

		<u>Fall Semester</u>	
MATH 2210	Multivariable Calculus	3	3
MATH 2310	Linear Algebra	3	3
PHYS 2210	Physics for Scientists and Engineers I	4	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1	1
Electives or General Education		6	6
Semester Total		17	17

		<u>Spring Semester</u>	
MATH 2320	Ordinary Differential Equations	3	3
PHYS 2220	Physics for Scientists and Engineers II	4	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1	1
Electives or General Education		9	9
Semester Total		17	17

Program Total 70

Students that do not enter the college with enough mathematics to enter Calculus I in the fall of their first year, should take the appropriate math classes their first year so that they may start the Calculus and Physics sequences in the fall of their second year. Students should consult their Physics advisor to determine the correct courses needed.

*Students are encouraged to take English during their first year. If a student enters college with their English requirement complete, the student may choose other electives or general education to fill their schedule.

PLEASE REFER TO THE CEU GENERAL CATALOG FOR A LISTING OF AA/AS GENERAL EDUCATION COURSES & DEGREE REQUIREMENTS.

For more information contact:

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