



SECONDARY EDUCATION 2010-11 catalog

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Changes to science and mathematics requirements for high school graduation have led to an anticipated increase in demand for secondary science teachers. Preparation for secondary education at CSU-Pueblo involves a B.S. in a science discipline, plus a minor in education. Colorado licenses teachers in science, so preparation in all science disciplines is included.

Students who have already completed a B.S. need to complete any lacking science content area coursework plus the education minor. This minor includes several courses with field hours in a school district as a requirement. These courses are therefore scheduled over several semesters.

Students apply for formal admission to the teacher education program during the Frameworks in Education course (ED 301). After admission the remaining Education courses can be taken (RDG 435, ED 412, and ED 444). In addition to coursework, students must pass a content exam for science (PLACE or PRAXIS) prior to acceptance for student teaching during their last semester (ED 485 and ED 488).

Biology B.S. SECONDARY EDUCATION EMPHASIS

Science and Math Courses	Title	Credits	Semester
BIOL 181/L	College Biology I	4	
BIOL 182/L	College Biology II	4	
BIOL 201/L or 202/L	Botany or Zoology	4	
BIOL 350	Mendelian and Population Genetics	2	
BIOL 351	Molecular Biology and Genetics	2	
BIOL 206/L OR 301/L	Introduction to Microbiology OR General Microbiology ^{\$}	4-5	
BIOL 223/L or 224/L or 414/L	Anatomy and/or Physiology ^{\$}	4	
BIOL 352	Evolutionary Biology and Ecology	3	
BIOL 378	Laboratory in Teaching Biology	1	
BIOL 4XX/L	Approved Upper Division Field Elective with lab: (Limnology, Freshwater Invert. Zoology, Ecology, Ichthyology, Entomology, Plant Taxonomy, Mammology, Ornithology)	3-4	
BIOL 493	Seminar	1	
MATH 221	Applied Calculus	4	
GEOL 101/L	Earth Science	4	
PHYS 201/L	Principles of Physics I	4	
PHYS 202/L	Principles of Physics II	4	
CHEM 121/L	General Chemistry I	5	
CHEM 122/L	General Chemistry II	5	
CHEM 211/L OR 301/L	Organic Chemistry	4-5	
	Total	62-65 hrs	
General Education Courses			Semester
ENG 101	English Composition I	3	
ENG 102	English Composition II	3	
SPCOM 103	Speaking and Listening (with a grade of B or better)	3	
(H)	Humanities course	3	
(H)	Humanities course	3	
(SS)	Social science course	3	
PSYCH 151 or 251	Human Development	3	
(HS)	History course	3	
	General Education Total	24 hrs	
Education Minor Courses	Course Prefix/number	Cr (field hrs)	√
Foundations of Ed	ED 202	3 hrs (30)	
Educational Media & Technology	ED 280	3 hrs	
Frameworks of Education*	ED 301	3 hrs (30)	
Teaching Diverse Learners**	ED 412	3 hrs (30)	
Content Area Literacy**	RDG 435	4 hrs (60)	
Teaching Secondary Science**	ED 444 (F)	4 hrs (60)	
Student Teaching**	ED 488	12 hrs (590)	
Capstone Seminar**	ED 485	2 hrs	
	Education Total	34 hrs (800)	120-123 hrs Total

^{\$} Student must take one of these two course requirements at UD level to meet 16 hr UD Biology.

* student must have completed >45 credit hours and have cumulative GPA >2.6.

**acceptance into the teacher education program required prior to enrolling in these courses.