

AAT Science Alignment with CSU Secondary Science—Physics Program

CSU Secondary Physics Program alignment with AAT: The first column indicates the courses taken at the community college for the AAT. The second column indicates CSU's requirements. The last column represents what must be taken at CSU to complete the baccalaureate degree requirements. In some cases, additional coursework taken beyond the AAT requirements may be accepted as transfer credit. Please confer with the Office of Teacher Certification for clarification.

AAT Model Requirements		CSU/Physics Sec Ed Requirements		Courses Needed at CSU?		
(60-64 semester hours)		Hours	(134 semester hours)	Hours		Hours
			Entrance Placement Exams*		Individual courses may require a placement exam.	
Gen Ed—Communications		9	Gen Ed—Composition + Speech			0
Comp I			ENG 127 (Comp I)	3		
Comp II			ENG 128 (Comp II)	3		
Oral Communications			CMAT 113/203 (Speech)	3		
Gen Ed—Humanities & Fine Arts		6	Gen Ed—Humanities			6
Humanities			Eng 126 (Lit)/Humanities Elective	3		
Fine Arts			Art 101/Mus 134/Humanities Elective	3		
			Foreign Lang I & II	6	Yes [Transfer Possible]	6
Gen Ed—Mathematics (Choose 2)		7-9	Required Math Support Courses**			13
Linear Algebra	Statistics		Math 171 (Pre-Calculus)	5	Yes [Transfer Possible]	5
Calculus I			Math 261 (Calculus I)	4		
Calculus II			Math 262 (Calculus II)	4		
			Math 263 (Calculus III)	4	Yes	4
			Math 271 (Differential Equations)	4	Yes	4
Gen Ed—Social & Behavioral Sciences		6	Gen Ed—Social Sciences***			9
American Nat'l Gov't			POL SCI 101 (Am. Nat'l Gov't)	3		
Intro to Psychology			PSYC 141 (Intro to Psych)	3		
			PSYC 204 (Child Psych)	3	Yes [Transfer Possible]	3
			Geog 101 / Non-Western or Third World Culture Elective***	3	Yes [Transfer Possible]	3
			HIST 130 or 131 (U.S. History I or II)	3	Yes [Transfer Possible]	3

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Gen Ed—Physical and Life Sciences	7-8	Required Major Area Courses	6		0
Physical Science (Earth Science From Core)		Phy Sci 114 (Earth Sci) or Geog 131 (Intro. Phys. Geog.)	3		
Life Sciences (Intro Bio Sci I From Core)		Bio 107/151 (Intro Bio I)	3		
Major Area—Core Courses	6-8	Required Major Area Courses	8		0
General Chemistry I		Chem 155 (Gen. Chem I)	4		
General Physics I with Calculus		Physics 211 (Gen. Phys I with Calculus)	4		
Major Area—Major Courses	12-15	Required Major Area Courses	11		0
Intro Biological Science II		Bio 108/152 (Intro Bio II)	3		
General Chemistry II		Chem 156 (Gen. Chem II)	4		
General Physics II with Calculus		Physics 222 (Gen. Phys II with Calculus)	4		
Major Area—Elective Courses	4	Required Major Area Courses	22		18
General Physics III with Calculus		Phys 233 (General Phys III with Calculus)	4		4
		Phys 160 (Intro. Phys Professions)	1	Yes	1
		Phys 270 (Electronics)	3	Yes	3
		Phys 280 (Modern Physics)	3	Yes	3
		Phys 311 (Classical Mechanics I)	3	Yes	3
		Chem 315 (Electricity and Magnetism I)	3	Yes	3
		Chem 350 (Teaching Inquiry-Based Physics)	2	Yes	2
		Chem 355 (Experimental Physics)	3	Yes	3
Professional Education	3	Professional Education	30		28
Intro to Teaching		ELCF 152 (Intro to Teaching)	2		
Pass Basic Skills Test		Pass Basic Skills Test			
		PE 204 (Health/Physical Development)	3	Yes	3
		ELCF 200 (History Education)	3	Yes [Transfer Possible]	3
		PSYC 206 (Educational Psychology)	3	Yes [Transfer Possible]	3

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		S ED 301 (Characteristics of Exceptional Children)	3	Yes [Transfer Possible]	3
		S ED 303 (Teaching Students w/ Exceptional Needs)	2	Yes	2
		ELCF 353 (Principals of Secondary Education)	2	Yes	2
		READ 306 (Content Reading for Secondary Ed)	2	Yes	2
		Phys 092 (Physics Content Exam Preparation)	0	Yes	0
		Phys 363 (Methods of Secondary Teach.)	3	Yes	3
		Pass Physics Content Test		Yes [Prior to Student Teaching]	
		CAS 363 (Classroom Management)	1	Yes	1
		Phys 375 (Student Teaching)	6	Yes	6
		Pass APT		Yes [Prior to Graduation]	
		Evidence of Professional Disposition		Yes [Continuous Assessment]	
	60- 64	Total Hours	134		74

* Entrance exams include: Reading, Math, English, IL Constitution. Successful completion of Math Exam is a prerequisite for non-remedial courses in Math, Chemistry and Physics.

** Some of the math taken for AAT may be substituted for listed requirements with permission of the department.

*** At least one 3 hr. course must be non-western or third world culture. See College of Ed. approved list.