

Riverside City College PHYSICS

Associate Degree for Transfer (ADT)

Physics is the study of how nature works. Processes within the entire universe, including your body, are explained with the principles of Physics.

Completion of the Physics: Associate Degree for Transfer (ADT) will prepare you to meet minimum lower division admission requirements (60 transferable units) for transfer to a California State University (CSU) and the University of California (UC). Some UC's require additional coursework, please meet with a counselor for additional information. The Physics program map below includes all of your major coursework and recommended general education courses by term that is needed to fulfill your degree and transfer requirements.

PHYSICS- ADT (CSU and UC)

0-15 units		Units
Term 1	English 1A or 1AH (General Education: CSU Area A2 or IGETC Area 1A)	4
	Math 1A (General Education: CSU Area B4 or IGETC Area 2)	4
	Physics 4A (General Education: CSU Area B1/B3 or IGETC Area 5A)	4
Interession (Winter or Summer term)		Units
	Anthropology 2/2H or Economics 9 or 9H (GE CSU Area D or IGETC Area 4)	3

16-30 units		Units
Term 2	English 1B or 1BH (Only course option for transfer to UC Area 1B)	4
	Math 1B or 1BH	4
	Physics 4B	4
	Film Studies 1-5 or Art 6/6H (General Education: CSU Area C1 or IGETC Area 3A)	3
Interession (Winter or Summer term)		Units
	Philosophy 10/10H (General Education: CSU Area C2 or IGETC Area 3B)	3

31-45 units		Units
Term 3	Math 1C	4
	Physics 4C	4
	Communication Studies 1, 6, or 9 (General Education: CSU Area A1 or IGETC Area 3A)	3
	Kinesiology 10, 35, or 36 (CSU General Education or UC Transfer Elective)	3
Interession (Winter or Summer term)		Units
	History 6/6H or 7/7H (General Education: CSU Area D and US 1 or IGETC Area 4)	3

45-60+ units		Units
Term 4	Physics 4D	4
	Biology 45 or Anthropology 1/1H (GE: CSU Area B2 or IGETC Area 5B)	3
	Psychology 9 or Sociology 10 (GE CSU Area D or IGETC Area 4)	3
	Political Science 1 (General Education: CSU Area D and US 2 or IGETC Area 4)	3

*If transferring to UC, you must meet Language other than English requirement or 2 years of HS language

For alternative **CSU/UC General Education** options refer to the back of this page or in the RCC Catalog, under **Requirements for College Transfer**, page 79-81.

RCC Catalog website link:
<https://www.rcc.edu/departments/Pages/College-Catalog.aspx>

Milestones

Milestones are courses, co-curricular activities and **recommendations** from your Student Success Team that will keep you on track towards completion of your degree.

Check off your milestones as you complete them.

Physics Degree Completion Milestones

- Complete English 1A (transfer-level English)
- Complete 1st year of Calculus (MAT 1A and MAT 1B)
- Apply to Universities (CSU/UC application period Oct 1-Nov 30)
- Apply for ADT degree by beginning of spring term before transfer
- Complete RCC Graduation application (during your last term)

Student Success Team Milestones

- Meet with your Counselor to Complete your Comprehensive Student Education Plan (SEP)
- Complete FAFSA (Oct 1st- Mar 2nd for priority)
- Meet with Faculty Advisor for career/research opportunities
- Meet with your Counselor to update SEP (every semester)
- Meet with your Counselor for pre-graduation check

Co-Curricular Activity Milestones

- Research Potential Clubs on Campus
- Participate in tutoring, student success workshops or supplemental instruction
- Visit the Career Center for Internship opportunities
- Research transfer institutions
- Attend Transfer workshops and Transfer Fair
- Participate in an internship/ job shadowing
- Participate in a research activity (meet with Faculty Advisor)

Physics Course Rotation

Fall Semester	Winter Interession	Spring Semester	Summer Interession
Physics 4A		Physics 4A	
Physics 4B		Physics 4B	
Physics 4C		Physics 4C	
Physics 2A		Physics 4D (Only in Spring)	
Physics 2B		Physics 2A	
		Physics 2B	

Enrollment status will impact the completion time for your degree and/or transfer. Full Time students are recommended to take between 12-15 units per term. Part Time students are encouraged to take between 6-9 units per term (meet with a counselor to determine appropriate work/life/school balance). Program completion is dependent on your schedule availability and when courses are offered.

ALTERNATIVE CSU GENERAL EDUCATION OPTIONS FOR PHYSICS (ADT)

RIVERSIDE CITY COLLEGE
California State University General Education Requirements
2018-2019

The courses listed below will fulfill the lower division general education requirements for all CSU campuses.

- A. English Language Communication and Critical Thinking (minimum 9 semester or 12 quarter units) **** Must be completed prior to transfer!**
 Select one course from each group. *Grades of 'C' or better are required.*
A1. Oral Communication: Communication Studies 1 or 1H,6,9 or 9H ****
A2. Written Communication: English 1A/1AH ****
A3. Critical Thinking: Communication Studies 2,3; English 1B or 1BH; Philosophy 11,32; Reading 4 ****
- B. Scientific Inquiry and Quantitative Reasoning (minimum 9 semester or 12 quarter units) **** Must be completed prior to transfer! Select one course from groups 1, 2 and 4.**
At least one of the science courses must have a lab – see underlined courses.
B1. Physical Science: Astronomy 1A,1B; Geography 1 or 1H, 1/1L or 1H/1L, 5; Geology 1, 1/1L, 1B, 2,3; Oceanography 1, 1/1L; Physical Science 1,5; Physics 10, 10/11
B2. Life Science: Anthropology 1 or 1H, 1L; Biology 1/1H, 5, 6, 7, 8, 9, 10,14, 14/15, 18 (formerly BIO 34), 19 (formerly BIO 36), 20, 45 (formerly AMY 10), Psychology 2;
B3. Laboratory Activity: This requirement may be met by completion of any lab course listed above in areas B-1 or B-2. All underlined courses will meet this requirement.
B4. Mathematics/Quantitative Reasoning (grade of 'C' or better is required): Math 1A,5,12 or 12H,25, **Psychology/Sociology 48******
- C. Arts and Humanities (minimum 9 semester or 12 quarter units) Select three courses, with at least one course from "Arts" and one course from "Humanities":**
C1. Arts: Art 1,2 or 2H, 6; Communication Studies 11; Dance 6 or 6H; Film Studies 1 or 1H,2,3,4,5; Film, Television and Video 65; Music 19, 89 or 89H; Theater Arts 3
C2. Humanities: American Sign Language 1; Arabic 1; Chinese 1,11; English 6,7,40,41,44,45,48; Film Studies 5,7,8; Film, Television and Video 12; French 1, 8,11; German 1,11; History 1,2 or 2H,6 or 6H,7 or 7H,14,15,31, 34; **Humanities 16**; Italian 1,11; Japanese 1,11; Korean 1,11; Latin 1; Philosophy 10 or 10H,12; Portuguese 1; Russian 1,11; Spanish 1 or 1H,3N,11
- D. Social Sciences (minimum 9 semester or 12 quarter units) Select three courses from at least two disciplines:**
 Anthropology 2 or 2H; Early Childhood Studies 20,42; Journalism 7; **Political Science 1** or 1H; **Psychology 1** or 1H,8,9,33,35,50; Sociology 1 or 1H, 2,3,10,12,15,20,25,50
- E. Lifelong Learning and Self-Development (minimum 3 semester or 4 quarter units)**
 Biology 35 (*same as HES1*); Early Childhood Studies 20,42; Guidance 47,48; Health Science 1; Kinesiology 4,36; Psychology 9,33; Sociology 12
Activity courses - Only 1 unit of activity coursework may be applied towards area E. Students may complete GUI-48 combined with 1 unit from the approved activity courses listed below in order to fulfill the 3 units required in area E. Military veterans who submit DD214 will be awarded 3 units towards Area E certification.

CAREER & TRANSFER INFORMATION FOR PHYSICS MAJORS

Careers and National Median Salaries for PHYSICS Majors

Careers in the Physics field require a bachelor's degree and usually a Masters or PhD. According to PayScale.com, Physicists annual salaries range from \$48,944 to \$147,211 depending on the position and degrees held. With a median annual salary of \$88, 287

Common Careers with a Physicist graduate degree:

Theoretical Physicist
 Research Physicist
 Astrophysicist
 Nuclear Physicist
 Accelerator Physicist
 Optical Physicist
 Engineer

Salary and Career Information may vary based upon source and year. For updated Career and Salary information, contact the Career Center, located in the Charles A. Kane building, second floor.

Transfer Information for PHYSICS Majors

CSU San Bernardino and UC Riverside offer undergraduate Physics programs. 70% of graduating UCR Physics majors have performed undergraduate research with our faculty either on campus or off campus. CSU San Bernardino also has an undergraduate degree option in Applied Physics.

Contact your STUDENT SUCCESS TEAM!

STEM- Engagement Center
 MLK Building, Room 222
 951-328-3694
Counseling Department
 Charles A. Kane building, second floor

The Riverside Community College District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the nondiscrimination policies or practices: District Compliance Officer, 3801 Market Street, Riverside, CA 92501, (951) 222-8039.