Physicists study matter, energy, and the relationships between them and devise methods to apply laws and theories of physics to industry, medicine, and other fields. Some career titles include acoustic physicist, astrophysicist, engineer, satellite data analyst, and medical or nuclear physicist.

This major may also lead to many other careers. For additional possibilities, visit the Career Services Center on campus to utilize computerized career information systems and other valuable career resources.

**TRANSFER**

Students planning to transfer to a four-year college should complete the lower-division major requirements and the general education pattern for the appropriate transfer institution. Santa Monica College has articulation agreements for this major with the following UC, CSU, and private institutions. Exact major requirements for these and other UC and CSU campuses can be found online at [www.assist.org](http://www.assist.org).

Articulation agreements with private institution can be found online at [www.smc.edu/articulation](http://www.smc.edu/articulation).

Please Note: Santa Monica College’s Physics series underwent the following effective Fall 2003: Physics 1 is now Physics 21, Physics 3 is now Physics 22, Physics 2 is now Physics 23 (minus the topic of modern physics), Physics 24 (new course covering modern physics).

**UNIVERSITY OF CALIFORNIA, BERKELEY**

- **B.A. Physics:** Math 7, 8, 11, 13 and 15; Physics 21, 22, 23, 24; CS 50; Chemistry 11 and 12

Please Note: Those not familiar with a computer programming language are urged to include an introductory course in Computer Science.

**UNIVERSITY OF CALIFORNIA, DAVIS**

- **A.B. Physics:** Math 7, 8, 11, 13, 15; Physics 21, 22, 23, 24
- **B.S. Physics:** Chemistry 11 (Chemistry 12 is highly recommended); Computer Science 50; Math 7, 8, 11, 13, 15; Physics 21, 22, 23, 24
- **Astrophysics emphasis:** add CS 52

**UNIVERSITY OF CALIFORNIA, IRVINE**

- **B.S. Math:** Math 7, 8, 11, 13, 15; Physics 21, 22, 23; CS 50 or 52

**UNIVERSITY OF CALIFORNIA, LOS ANGELES**

Listed below are the lower-division preparation courses for the major. **At a minimum, you must complete one year of calculus with analytical geometry and one year of calculus-based physics (mechanics, electricity and magnetism).** All preparatory courses must be completed by the spring term prior to transfer. All courses must be taken for a letter grade. For more information regarding this major and UCLA’s transfer selection process, visit [http://home.physics.ucla.edu/home.php](http://home.physics.ucla.edu/home.php) and [www.admissions.ucla.edu](http://www.admissions.ucla.edu).

- **B.S. Physics/B.A. Physics:** Chemistry 11; Physics 21, 22, 23; Math 7, 8, 11, 13, 15 (these five math courses are equivalent to UCLA’s 31AB, 32AB, 33AB)

**UNIVERSITY OF CALIFORNIA, RIVERSIDE**

- **B.A. and B.S. Physics:** Physics 21 and 22 and 23 and 24; Math 7 and 8, 11, 15; Chemistry 11 and 12
- **Option in Biophysics:** add Biology 21 and 22 and 23

**UNIVERSITY OF CALIFORNIA, SAN DIEGO**

- **B.A. Physics:** Physics 21, 22, 23, 24; CS 17; Math 7, 8, 11, 13, 15; select two courses from the following: Biology 21, 22, 23; Chemistry 11, 12
- **B.S. Physics:** Physics 21, 22, 23, 24; Chemistry 11 and (CS 20A or 52); Math 7, 8, 11, 13, 15

**UNIVERSITY OF CALIFORNIA, SANTA BARBARA**

- **B.A. and B.S. Physics:** Physics 21, 22, 23; Math 7, 8, 11, 13, 15; Chemistry 11, 12

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE**

- **B.A. and B.S. Physics:** Chemistry 11; Math 7, 8, 11, 13, 15; Physics 21 and 22 and 23 and 24; CS 50

Santa Monica College has articulation agreements for this major (see [www.smc.edu/articulation](http://www.smc.edu/articulation) for exact requirements) with the following private institution:

**LOYOLA MARYMOUNT UNIVERSITY**

- **B.S. Physics:** Chemistry 11; CS 55; Math 7, 8, 11, 15; Physics 21, 22

General education requirements for the University of California, California State University, and other local universities are listed on separate sheets available in the Transfer/Counseling Center, as well as online (go to [www.smc.edu/articulation](http://www.smc.edu/articulation)).