A Course of Study for

ASTRONOMY - Transfer

Astronomers study the solar system, stars, galaxies, and space using principles of physics and mathematics. Their work adds to the basic scientific knowledge about the nature of the universe and also provides a basis for improvement in such areas as aircraft navigation and satellite communication. They study planets, stars, novas, and colliding gases between stars in an attempt to find out how they were formed, what they are made of, and how they change. They measure light, radio and x-ray emissions from space sources. Astronomers can advance to director of an observatory or science center.

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.smc.edu/articulation.

UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. Astrophysics: Astronomy 3 and 4; Mathematics 7, 8, 11, 13 and 15; Physics 21 and 22 and 28 and 29

B.A. Earth and Planetary Science, Planetary Science Track: Chemistry 11 and 12; Physics 21 and 22 and 23 and 24; Math 7, 8, 11, 13 and 15; Geology 4

B.A. Earth and Planetary Science, Environmental Earth and Marine Science Track: Chemistry (11 and 12) or 21; Physics (21 and 22 and 23 and 24) or (8 and 9); Math 7, 8, 11, 13 and 15; Geology 4; Biology 21 and 22 and 23

Students are encouraged to acquire a reading knowledge of German, Russian or French.

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

B.S. in Physics with an Astrophysics option: Chemistry 11; CS 50; Math 7, 8, 11, 15; Physics 21 and 22 and 23 and 24

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