



MATHEMATICS (CSUF, CSULB, SDSU, UCI, UCLA, UCSD)

Mathematics is one of the most powerful tools available to the physical, biological, and social sciences; as well as engineering, business, and increasingly the arts. The study of Mathematics prepares the student to use math to analyze relationships in many disciplines. A bachelor's degree in Mathematics provides a valuable background for many positions in industry and government, as well as for graduate study in various fields. Career choices include technical positions in industry as well as teaching.

Listed below are Saddleback College (SC) courses that have been articulated with selected example universities, and represents lower-division preparation for the major. In addition, students are advised to complete General Education requirements prior to transfer.

When planning coursework, students are urged to contact a Saddleback College counselor, and refer to the college catalog and website(s) of the transfer campus, as well as the ASSIST state-wide articulation database as applicable for CSU and UC campuses: www.assist.org

Articulation agreements can change without notice at any point during your time at Saddleback College. Please refer to the college catalogs and websites of the transfer schools you are considering, as well as the state-wide articulation database for CSU and UC campuses, www.assist.org, for the most current information. Students are urged to contact a Saddleback College counselor to review this information on a regular basis.

THE FOLLOWING INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

CSU FULLERTON

BACHELOR OF ARTS IN MATHEMATICS

Each course required for the major must be completed with a grade of "C" (2.0) or better. Courses required for the major may not be taken on a credit/no credit basis and are not subject to challenge examinations. CSUF recommends that students complete all lower-division mathematics courses prior to transfer.

Lower-Division Core Requirements: CS 1B; MATH 3A, 3B, 3C, MATH (24 and 26)

In addition to the above requirements, each student is required to complete 9-12 units in one (1) of the following cognates: Actuarial; Chemistry; Civil Engineering; Computer Science; Economics; Information Systems & Decision Sciences (ISDS); Mathematics; Physics; Research.

Applicable lower-division preparation can be selected and completed at Saddleback College for the following cognates: **Actuarial Cognate:** (no lower-division courses); **Chemistry Cognate:** CHEM 1A, 1B; **Civil Engineering Cognate:** ENGR 31; **Computer Science Cognate:** CIM 2A, 172, CS 1D; **Economics Cognate:** ECON 2, 4; **Information Systems/Decision Sciences Cognate (ISDS):** (no lower-division courses); **Mathematics Cognate:** (no lower-division courses); **Physics Cognate:** PHYS 4A, 4B, 4C; **Research Cognate:** (no lower-division courses)

NOTE: All students seeking a B.A. in Mathematics are expected to be skilled in elementary computer programming.

Refer to the CSU Fullerton catalog, ASSIST at www.assist.org, and the Mathematics Department page at www.fullerton.edu/catalog/academic_departments/math.asp for additional information regarding this program.



Articulation Office – Counseling Services & Special Programs

ADVISEMENT INFORMATION FOR TRANSFER MAJORS

CSU LONG BEACH

BACHELOR OF SCIENCE IN MATHEMATICS

The Department of Mathematics and Statistics offers four (4) bachelor's degree options: B.S. in Mathematics; B.S. in Mathematics - Applied Mathematics Option; B.S. in Mathematics – Mathematic Education Option; B.S. in Mathematics – Statistics Option.

Mathematics Lower-Division Requirements: ENG 1B; MATH 3A, 3B, 3C, 26; (CS 1B or CS 4A or CS 4B); PHYS 4A

Applied Mathematics Option - (Science & Engineering Application): ENG 1B; MATH 3A, 3B, 3C, 26; (CS 1B or CS 4A or CS 4B); PHYS 4A, 4B; (PHYS 4C or ENGR 31); **(Economics & Management Application):** ENG 1B; MATH 3A; 3B; 3C; 26; (CS 1B or 4A or 4B); ECON 2, 4

Mathematics Education Option: MATH 3A, 3B, 3C, 26; ENG 1B; PHYS (4A and 4B) or PHIL 12 (*Completion of this option meets subject matter competence requirements for the Single Subject Preliminary Credential Mathematics – Code 165.*)

Statistics Option: ENG 1B; MATH 3A, 3B, 3C, 26; (CS 1B or CS 4A or CS 4B)

Refer to the CSU Long Beach catalog, ASSIST at www.assist.org, and the Department of Mathematics and Statistics website at www.csulb.edu/web/depts/math/ for additional information regarding program requirements.

SAN DIEGO STATE UNIVERSITY

BACHELOR OF ARTS IN MATHEMATICS – LIBERAL ARTS & SCIENCES

Lower-Division Preparation: MATH 3A, 3B, 3C, 26

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to the San Diego State University catalog, ASSIST at www.assist.org, and the San Diego State University Transfer Admissions Planner website at <http://sunspot.sdsu/pubred/!tap DISP> for additional information regarding this program.



Articulation Office – Counseling Services & Special Programs

ADVISEMENT INFORMATION FOR TRANSFER MAJORS

UC IRVINE

BACHELOR OF SCIENCE IN MATHEMATICS

NOTE: Preference will be given to junior-level applicants with the highest grades overall, and who have satisfactorily completed the required course work of one (1) year of approved calculus. Students are urged to see an academic counselor to plan their junior year. Program information is available at (949) 824-6507, and the School of Physical Sciences website at: www.physsci.uci.edu/

Lower-Division Preparation: MATH (3A and 3B and 3C), MATH (3B and 26), 24, 26; **AND select from the following:** (CHEM 1A and 1B) **or** (PHYS 4A and 4B) **or** (PHYS 4A and 4C) **or** PHYS (4A and 4B and 4C); CS 1B **or** (CS 1A and 4A and 4B – *this combination equals UCI's ICSCI 21*)

Refer to the UC Irvine catalog and ASSIST at www.assist.org for further information regarding program requirements.

UC LOS ANGELES

BACHELOR OF SCIENCE IN MATHEMATICS

For information regarding this major and UCLA's transfer selection process, visit: www.math.ucla.edu and www.admissions.ucla.edu

Lower-Division Preparation: CIM 6A; MATH 3A, 3B, 3C, 24, 26; PHYS 4A; **AND two (2) additional courses from:** BIO (3A and 3B); CHEM 1A, 1B; PHYS 4B, 4C

Refer to the UC Los Angeles catalog and ASSIST at www.assist.org for additional information regarding this major.



Articulation Office – Counseling Services & Special Programs

ADVISEMENT INFORMATION FOR TRANSFER MAJORS

UC SAN DIEGO

BACHELOR OF SCIENCE IN MATHEMATICS

NOTE: *Transfer students are strongly advised to complete as many preparatory courses as soon as possible for their major before enrolling at UC San Diego. Preparing well for the major helps students move efficiently toward graduation.*

Lower-Division Preparation: MATH 3A, 3B, 3C, 24, 26

Refer to the UC San Diego catalog, ASSIST at www.assist.org, and the Department of Mathematics website at <http://math.ucsd.edu/> for additional information.

NOTES:

- As each college/university has its own orientation to their Mathematics major, read the entire Mathematics major section in the catalog of each college/university to which you are considering transferring. Pay particular attention to the upper-division requirements.
- Contact each college/university that you are interested in. Ask them to send you information about their Mathematics program; selection criteria, GPA requirements, and other pertinent admissions information. Also, ask for information about their campus, services, housing, etc. Meet with college/university representatives when they visit Saddleback College.
- Visit each school to which you are considering transferring.
- Research careers related to your chosen major.
- For additional transfer information, consult Saddleback College's Transfer Student Home Page: www.saddleback.edu/ss/tc/TRANSFERSTUDENTPAGE.html, and ASSIST for CSU and UC campuses: www.assist.org