



MATHEMATICS

Transfer Requirements

The following requirements for the major are subject to change. To assure accuracy of the information on this sheet, you should consult with the Mathematics counselor, or review articulation agreements via the Internet at WWW.ASSIST.ORG. Career information for the field of Mathematics is available in the El Camino College Career/Transfer Center.

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (2009-2010) www.csudh.edu/math/

Requirements: Math 190, 191, 220, 210*; Computer Science 3*; Physics 1A, 1B, 1C, 1D **or** Physics 130, 132, & 134 at CSUDH or another year sequence in basic science recommended by a CSUDH advisor.

Math education: please refer to the single subject teaching credential guide sheet for additional information and requirements

CALIFORNIA STATE UNIVERSITY, FULLERTON (2009-2010) <http://nsm.fullerton.edu>

Required for all options: Math 190, 191, 220, 270; Computer Science 10* or CPSC 121 at CSUF and a computer skills course.

Each student is required to take one of the following cognates:

Actuarial: no lower division courses

Computer Science: add Computer Science 2

Economics: add Economics 1 & 2 and upper division Economics courses at CSUF

Physics: add Physics 1A-1B-1C-1D

Chemistry: Chemistry 1A – 1B

Civil Engineering: EGCE 201 at CSUF

ISDS: no lower division courses

Mathematics: no lower division courses

Research: no lower division courses

Concentrations: Applied Mathematics, Pure Mathematics, Probability and Statistics Teaching

Math Education: please refer to the single subject teaching credential guide sheet for additional information and requirements

CALIFORNIA STATE UNIVERSITY, LONG BEACH (2009-2010) www.csulb.edu/depts/math

Mathematics: Math 190, 191, 220, 210*; Computer Science 1; Physics 1A **and** 1B at ECC or Physics 151 at CSULB;
Applied Math (Science and Engineering.): Math 190, 191, 220; Computer Science 1; Physics 1A-1B-1C-(1D or Engineering 9)

Applied Math (Economics & Management): Math 190, 191, 220; Computer Science 1; Economics 1 & 2

Statistics: Math 190, 191, 220; Computer Science 1

Math Education: please refer to the single subject teaching credential guide sheet for additional information and requirements

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (2009-2010) www.calstatela.edu/academic/math/

Requirements:

BA: English 1C; Computer Science 3*; Math 150, 190, 191, 210*, 220; Physics 1A, 1B and 1D or 1C; eight units of electives in related areas: Chemistry 1A or 1B or 270

BS: English 1C; Computer Science 3*; Math 150, 190, 191, 210*, 220; Physics 1A-1B-1C-1D; Math 270 and 8 units from lower division natural science or engineering courses.

Options available in Applied Mathematics & Single Subject Teaching: please refer to the single subject teaching credential guide sheet for additional information and requirements

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (2009-2010) www.csun.edu/math/

Requirements: Computer Science 1 or 30*; Math 190, 191, 220; Physics 1A

Options: **BA:** Mathematics; Secondary Teaching: please refer to the single subject teaching credential guide sheet for additional information and requirements

BS: Mathematics; Statistics; Applied Mathematical Sciences

CALIFORNIA POLYTECHNIC UNIVERSITY, POMONA (2009-2010) www.csupomona.edu/~math/
Requirements for all students: Computer Science 1 or 10; Math 190, 191, 220, 270; Physics 1A-1B-1C.
Options available in Applied Mathematics, Statistics and Subject Matter Preparation Program for Secondary Teaching Credential

CALIFORNIA POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO (2008-2009) www.calpoly.edu/~math/
Requirements: Math 190, 191, 220, 270; Computer Science 1 or 3 and 30*; Physics 1A-1B-1C-1D

SAN DIEGO STATE UNIVERSITY (2008-2009) www.math.sdsu.edu
Requirements for the BA & BS Degrees: Math 190, 191, 210*, 220, and 270; Computer Science 3*
BA in Liberal Arts and Science- add Foreign Language through third college semester; Recommended: Physics 1A-1B-1C-1D
BS in Applied Arts & Science- add Mathematics 150
Emphasis: Computational Science: add CS 2 and Math 150
Emphasis: Mathematical Finance: add Economics 1, 2
Emphasis: Science: no additional requirements
Math Education: please refer to the single subject teaching credential guide sheet for additional information and requirements

UNIVERSITY OF CALIFORNIA, BERKELEY (2009-2010) www.math.berkeley.edu
Requirements for degrees in Mathematics/Applied Mathematics: Math 190-191-220-270. You **must** complete either: (1) UCB's requirements (Reading & Composition, Foreign Language, and Quantitative Reasoning) or (2) IGETC by the end of the spring term that precedes fall enrollment at Berkeley.

UNIVERSITY OF CALIFORNIA, IRVINE (2009-2010) www.math.uci.edu
Requirements for Mathematics: Math 190, 191, 220, 270; Chemistry 1A & 1B **or** Physics 1A & 1C or 1A & 1B or 1A & 1B & 1C; One course from Computer Science 3 or 10* or 30*

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2009-2010) www.math.ucla.edu
Mathematics B.S.: Math 190, 191, 220, 270; Computer Science 1; Physics 1A; Two additional courses from Biology 101 or 102; Chemistry 1A, 1B, Physics 3B, 1C, 1D
Applied Mathematics B.S.: Math 190, 191, 220, 270; CS 1; Physics 1A, 1C; one course from Physics 1D or Chemistry 1A or 1B
Mathematics/Applied Science B.S.: Math 190, 191, 220, 270; Computer Science 1. Programs include actuarial plan, management/accounting plan, medical and life sciences plan, and operations research plan. You may combine the study of math with fields such as physics, biology, chemistry, biochemistry, economics, and geography. Consult www.assist.org or the UCLA catalog for more information and requirements.
Mathematics of Computation B.S.: Math 190, 191, 220, 270, 210*; Physics 1A and 1C; Computer Science 1; one course from: Physics 1D or Chemistry 1A or 1B
Mathematics/Economics: Math 190, 191, 220, 270, 210*; Economics 1, 2

UNIVERSITY OF CALIFORNIA, RIVERSIDE (2009-2010) <http://math.ucr.edu>
Requirements for the BA & BS Degrees: Math 190, 191, 220, 270; Computer Science 1
BS: Recommended: Computer Science 30*. The B.S. in Math offers three tracks: (1) Pure Math (2) Applied Math (with options in Biology, Chemistry, Economics, Environmental Science, Physics and Statistics) (3) Computational Math. See www.assist.org for additional requirements for each track.
***Note:** Students will need a 2.70 GPA in UC transferable course work for admittance to the major. Math majors will follow the College of Natural and Agricultural Science breadth requirements. IGETC is not accepted for this major. Transfer students who wish to supplement their lower division math and science preparation with humanities or social sciences are encouraged to follow the CNAS breadth pattern as described under the GE/Breadth on ASSIST.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA (2009-2010) www.math.ucsb.edu
Students are admitted to the **pre-major**.
BA & BS: Math 190, 191, 220, 270, 210*; Physics 1A or 2A or 3A; CS 3*

UNIVERSITY OF CALIFORNIA, SAN DIEGO (2009-2010) <http://math.ucsd.edu>

Applied Mathematics B.A.: Math 190, 191, 220, 270; Highly recommended: Computer Science 1 or 3* or 30*

Mathematics/Applied Science B.A.: Math 190, 191, 220, 270; Highly recommended: Computer Science 1 or 3* or 30*

Mathematics B.A.: Math 190, 191, 220, 270

Mathematics/Computer Science B.A.: Math 190, 191, 220, 270; Computer Science 2, 3*, 30*

Mathematics/Secondary Education B.A.: Math 190, 191, 220, 270; Highly recommended: Computer Science 1 or 3* or 30*

Mathematics/Scientific Computation B.A.: Math 190, 191, 210*, 220, 270; Computer Science 1 or 3* or 30*

Joint Major in Mathematics and Economics B.A.: Math 190, 191, 220, 270; Economics 1 and 2

LOYOLA MARYMOUNT UNIVERSITY (LMU) (2009-2010)

<http://www.lmu.edu/pagefactory.aspx?PageID=28630>

BA/BS: Math 190, 191, 220, 270: two courses from Physics 1A, 1B, CS 2, CS 3*

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2009-2010) <http://math.usc.edu>

BA: Math 190, 191, 220, 270

BS: Math 190, 191, 220, 270; Highly recommended: Physics 1A-1B-1C-1D

* Computer Science 3 & 10 is offered fall semester only; Math 210 & Computer Science 30 is offered spring semester only.