



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 a STEM counselor, or review articulation agreements at WWW.ASSIST.ORG. Career information for the field of Mathematics is available in the El Camino College Career/Transfer Center.

AS-T Requirements: total units 24-25

Core Requirements: 15 units: Math 190, 191, 220;

List A: 5 units: Math 270

List B: 4 or 5 units from: Computer Science 1, 2, 3, Mathematics 150, 210, Physics 1A, 3A

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (2022-2023)

BS Mathematics: Math 190, 191, 220, 210; Computer Science 2, 3; Physics 1A

BS Mathematics Education: Math 190, 191, 220, 210, 150; Physics 1A

CALIFORNIA STATE UNIVERSITY, FULLERTON (2022-2023)

BA Mathematics (all concentrations): Math 190, 220; Computer Science 1

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

CALIFORNIA STATE UNIVERSITY, LONG BEACH (2022-2023)

BS Mathematics: Math 190, 191, 220, 270, 210; Computer Science 1 or 3 or 14; Physics 1A, 1B

Applied Math (Science and Engineering.): add Physics 1C; Physics 1D or Engineering 9 or 11

Applied Math (Economics & Finance): add Economics 101, 102

Statistics: no additional course

Math Education: no additional course

NOTE: Major specific admissions requirements, please visit: <https://www.csulb.edu/admissions/transfer-admission-eligibility>

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (2022-2023)

BS Mathematics: Biology 120, Math 190, 191, 210, 220, 270; Physics 1A

Applied Math: add Biology 110; Chemistry 1A; Computer Science 2; Math 150; Physics 1C

General Math: add Biology 110; Chemistry 1A; Computer Science 2; Math 150; Physics 1C

Integrated Teaching: add Math 150

Traditional Teaching: add Math 150, Computer Science 2

NOTE: Major specific admissions requirements, please visit:

<https://www.calstatela.edu/admissions/major-specific-criteria>

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (2022-2023)

BA Mathematics: Computer Science 1; Math 190, 191, 220; Physics 1A

Option in Secondary Teaching: no additional classes

BS Mathematics: Computer Science 1; Math 190, 191, 220; Physics 1A

Option in Applied Mathematical Sciences: no additional classes

Option in Statistics: no additional classes

CALIFORNIA POLYTECHNIC UNIVERSITY, POMONA (2022-2023)

BS Mathematics: Math 190, 191, 220, 270; Physics 1A; Physics 1C or Biology 110 and 120

Option in Applied Math/Statistics: no additional classes

Option in Secondary Teacher Prep: no additional classes

NOTE: Major specific admissions requirements, please visit:

<https://www.cpp.edu/admissions/transfer/impacted-majors.shtml>

CALIFORNIA POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO (2022-2023)

BS Mathematics: Math 190, 191, 220, 270; Computer Science 1 or 3; Physics 1A, 1C

Other Courses (concentration/emphasis/elective) add: Computer Science 2, 16, 30; Engineering 9

NOTE: Major specific admissions requirements, please visit:

<https://www.calpoly.edu/admissions/transfer-student/selection-criteria/major-specific-transfer-criteria>

SAN DIEGO STATE UNIVERSITY (2022-2023)

BA Mathematics: Math 190, 191, 210, 220, 270, and Math 150

Options in Integrated Teacher Education Program, Single Subject Teaching: no additional classes

BS Mathematics: Math 190, 191, 210, 220, 270, and Math 150

Options in Applied Math, Computational Science, Mathematics Education: no additional classes

NOTE: Major specific admissions requirements, please visit:

https://sunspot.sdsu.edu/pubred/tap_disp?p_action=list_majors **For some options, SDSU requires classes for transfer admission that ECC currently does not have equivalents according to SDSU Transfer Admission Planner (TAP)

UNIVERSITY OF CALIFORNIA, BERKELEY (2022-2023)

BS Mathematics/Applied Mathematics: Math 190, 191, 220, 270; highly recommend Math 210. 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.

BS Engineering Mathematics and Statistics: Math 190, 191, 220, 270; Chemistry 1A; Physics 1A, 1B, 1C, 1D; English 1A, 1B; strongly recommended: Math 210; Computer Science 2, 8, 30

UNIVERSITY OF CALIFORNIA, IRVINE (2022-2023)

BS Mathematics: Math 190, 191, 220, 270; Chemistry 1A & 1B **or** Physics 1A & 1C **or** 1A & 1B & 1D **or** 1B & 1C & 1D **or** Physics 1A and Math 150; Computer Science 17

NOTE: Major specific admissions requirements, please visit:

<https://www.admissions.uci.edu/apply/transfer/requirements.php>

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2022-2023)

BS Mathematics: Math 190, 191, 220, 270; Computer Science 1; Physics 1A; Two additional courses from: Biology 110; Chemistry 1A, 1B; Physics 3A and 3B or Physics 1C and 1D; Philosophy 106

BS Applied Mathematics: Math 190, 191, 220, 270; Computer Science 1; Physics 1A, 1C; one course from Physics 1D or Chemistry 1A or 1B

BS Mathematics/Applied Science: Math 190, 191, 220, 270; Computer Science 1.

Programs include individual plan, medical and life sciences plan, and history of science 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.

Medical and Life Science Plan add: Chemistry 1A, 1B, 7A; Biology 110, 120; Physics 1A, 1C

BS Mathematics of Computation: Math 190, 191, 220, 270, 210; Physics 1A, 1C; Computer Science 1; one course from: Physics 1D or Chemistry 1A or 1B

BS Atmospheric and Oceanic Sciences/Mathematics: Math 190, 191, 220, 270; Chemistry 1A, 1B; Physics 1A, 1C, 1D; Computer Science 1

BS Financial Actuarial Mathematics: Math 190, 191, 220, 270; Economics 101, 102; Business 150, 151; Computer Science 1

BS Mathematics for Teaching: Math 190, 191, 220, 270, 210; Physics 1A or 3A; Computer Science 1; two courses from: Chemistry 1A and 1B; Physics 1C, 1D, 3B

BS Mathematics/Economics: Math 190, 191, 220, 270, 210; Computer Science 1; Economics 101, 102
UCLA Transfer Admission Guide: <https://admission.ucla.edu/apply/transfer/deciding-on-major>

UNIVERSITY OF CALIFORNIA, RIVERSIDE (2022-2023)

BA & BS Mathematics and BS Mathematics for Secondary School Teachers: Math 190, 191, 220, 270; one sequence from Chemistry 1A-1B or Biology 110-120 or Physics 1A-1B-1C

*Note: Students will need a minimum 2.70 GPA in UC transferable course work for admission consideration. 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.

NOTE: Major specific admissions requirements, please visit: <https://admissions.ucr.edu/transfer/majors-preparation-guide>

UNIVERSITY OF CALIFORNIA, SANTA BARBARA (2022-2023)

BA and BS Mathematics, BS Applied Mathematics: Math 190, 191, 220, 270; Physics 1A or 2A or 3A; Computer Science 1 or 14 or 17

BS Financial Mathematics and Statistics: Math 190, 191, 220, 270; Economics 101, 102; Computer Science 1 or 14 or 17

Note: UCSB Selective Majors: <https://admissions.ext-prod.sa.ucsb.edu/selective-majors>

UNIVERSITY OF CALIFORNIA, SAN DIEGO (2022-2023)

BS Mathematics: Math 190, 191, 220, 270

BS Applied Mathematics: Math 190, 191, 220, 270; Computer Science 3

BS Mathematics/Applied Science: Math 190, 191, 220, 270; Computer Science 3

BS Mathematics/Computer Science: Math 190, 191, 220, 270; Computer Science 2, 3

BS Mathematics: Joint Major in Mathematics and Economics: Math 190, 191, 220, 270; Economics 101, 102

BS Mathematics: Probability and Statistics: Math 190, 191, 220, 270; Computer Science 3

BA Mathematics/Secondary Education: Math 190, 191, 220, 270; Computer Science 3

NOTE: Major specific admissions requirements, please visit: <https://admissions.ucsd.edu/transfer/transfer-major-preparation.html>

LOYOLA MARYMOUNT UNIVERSITY (LMU) (2022-2023)

BA/BS: Math 190, 191, 220, 270; Computer Science 1; one course from Physics 1A, 1C; Computer Science 2, 3; Biology 110, 120; Chemistry 1A, 1B

Note: LMU Recommended Courses by Major:

<https://transfer.lmu.edu/howtotransfer/prepare/recommendedcoursesbymajor/>

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2022-2023)

BA: Math 190, 191, 220, 270

BS: Math 190, 191, 220, 270; Select 12 units from: Astronomy 15 or 20 or 25; Biology 110 and 120; Chemistry 1A or 7A or 7B; Geology 2 or 3 or 4; Oceanography 10H; Physics 1A and 1B, Physics 1B and 1C, Physics 1D, Physics 2A or 2B, Physics 3A or 3B

NOTE: USC Transfer Planning Guide: <https://camel2.usc.edu/TPG/>