



MATHEMATICS MAJOR ADVISEMENT

COURSE	TITLE	AS-T	CSUDH	CSUF	CSULB	CSULA
MATH G160	Statistics	0.2	MAT 131 (1.2)			
MATH G180	Calculus 1	X	MAT 191	MATH 150A	MATH 122	MATH 2110
MATH G185	Calculus 2	X	MAT 193	MATH 150B	MATH 123	MATH 2120
MATH G280	Calculus 3	X	MAT 211	MATH 250A	MATH 224	
MATH G285	Lin Algebra/Diff Equation	0.1		MATH 250B (2.1)		MATH 2150
MATH G282	Ordinary Diff Equations	0.1		MATH 250B (2.1)		
MATH G230	Discrete Mathematics					
MATH G235	Intro Linear Algebra	0.1		MATH 250B (2.1)	MATH 247	MATH 2550
PHYS G185	Calc Physics: Mechanics	0.2	PHY 130 + 132 + 134	PHYS 225 + 225L (2.2)	PHYS 151 (3.3, 3.4)	
PHYS G280	Calc Physics: Elect/Mag			PHYS 226 + 226L (2.2)	PHYS 152 (3.2, 3.3, 3.4)	
PHYS G285	Calc Physics: Modern				PHYS 254 (3.2, 3.4)	
CS G145	Intro to C Language					
CS G153	Intro to Java		CSC 121		CECS 174 (3.1)	CS 2011 (4.1)
CS G175	C++ Programming	0.2		CPSC 121	CECS 174 (3.1)	CS 2011 (4.1)
CS G189	Discrete Structures		CSC 123 (1.1)	CPSC 131 (2.2)		
CS G262	Discrete Structures		MAT 281			MATH 2450
ACCEPTS AA-T?						
OTHER					3.4	4.1

AA-T / AS-T: ASSOCIATE DEGREE FOR TRANSFER. See www.adegreewithaguarantee.com or consult with a counselor for more information.

0.1: Complete one course from MATH G282, MATH G235, or MATH G285

0.2: Select one additional course from: MATH G282 or MATH G135 (if not selected above); PHYS G185, CS G175, MATH G160

CSU DOMINGUEZ HILLS: BS Degree. Options in general Mathematics and Mathematics Education. Transfer students should complete three semesters of calculus and one additional course prior to transfer.

1.1: Recommended course for General Mathematics option.

1.2: Required for Math Education option.

CSU FULLERTON: BA Degree. Options in Actuarial Science, Pure Mathematics, Applied Mathematics, Probability and Statistics, and Teaching Mathematics.

2.1: Complete either MATH G285 OR MATH G282 + G235

2.2: Students are required to complete one of the following cognates: Chemistry, Civil Engineering, Computer Science, Economics, Finance, Information Systems and Decision Sciences, Mathematics, Physics, or Research.

For Chemistry: Complete CHEM G180 + G185

For Computer Science: Complete CS G189, CS G242, plus one course from CS G177 or CS G153, or CS G178.

For Economics: Complete ECON G170 + G175

For Physics: Complete PHYS G185 + G280 + G285

All other Cognates: Complete coursework after transfer.

CSU LONG BEACH: BS Degree. Options available in Mathematics, Applied Mathematics (with an additional sub-option in Economics and Management), Mathematics Education, and Statistics. All majors at this campus are impacted. Please see counselor for admission and selection criteria for this major. Local Admission: Minimum 2.5 GPA required and completion of major preparation coursework above for admission.

3.1: Complete either CS G153 or CS G175

3.2: Additional courses required for Option in Applied Mathematics. For Sub-option in Economics and Management, complete ECON G170 + G175.

3.3: For Option in Mathematics Education, complete either PHYS G185 + G280, or PHIL G115 + an additional course in Symbolic Logic after transfer.

3.4: For Option in Statistics: Physics not required for this option.

CSU LOS ANGELES: BS Degrees offered. Options available in General Mathematics, Pure Mathematics, Single Subject Teaching, Applied Mathematics, and Applied Mathematics/Computer Science. Articulation for this college is under review.

4.1: Select one course from CS G153 or CS G175.



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COURSE	TITLE	UCB	UCI	UCLA	UCR	UCSD
MATH G160	Statistics				STAT 48 (8.4)	
MATH G180	Calculus 1	MATH 1A	MATH 2A + 2B	MATH 31A	MATH 9A +9B + 9C	MATH 20A
MATH G185	Calculus 2	MATH 1B		MATH 31B		MATH 20B
MATH G280	Calculus 3	MATH 53	MATH 2D/2E	MATH 32A + 32B	MATH 10A / 10B	MATH 20C
MATH G285	Lin Algebra/Diff Equation	MATH 54 (5.1)	MATH 3A (6.1)	MATH 33A or 33B	MATH 46 (8.1)	MATH 20D (9.1)
MATH G282	Ordinary Diff Equations		MATH 3D (6.2)			MATH 46 (8.1)
MATH G230	Discrete Mathematics		MATH 3D (6.2)			
MATH G235	Intro Linear Algebra	MATH 54 (5.1)	MATH 3A (6.1)	MATH 33A	MATH 31 (8.3)	MATH 20F
PHYS G185	Calc Physics: Mechanics		6.3a	PHYSICS 1A	PHYS 40 A + 40 B + 40 C (8.4)	
PHYS G280	Calc Physics: Elect/Mag		6.3a	7.1, 7.2, 7.3, 7.4		
PHYS G285	Calc Physics: Modern		6.3a	7.1		
CS G145	Intro to C Language		6.3a		CS 10 (8.2)	
CS G153	Intro to Java		6.3a			
CS G175	C++ Programming		6.3a	COMPTNG 10A (7.3)	CS 10 (8.2)	
CS G189	Data Structures with C++			COMPTNG 10B		
CS 262	Discrete Structures			MATH 61 (7.3; 7.5)		
OTHER		5.1		7.1; 7.2, 7.5	8.4	9.2, 9.3

UC BERKELEY: BA Degree Mathematics / Applied Mathematics.

5.1: Complete MATH G285 + G235 for MATH 54 credit.

UC IRVINE: BS Degree. Specializations in Applied and Computational Mathematics, Mathematical Biology, or Mathematics in Education.

Concentrations in Mathematical Finance and Mathematics for Educational with Secondary Teaching Certification are also offered. Preference will be given to junior level applicants with the highest grades overall and who have completed one year of approved calculus. Minimum 3.0 GPA required for consideration. Additional coursework in multivariable calculus, linear algebra, and differential equations is strongly recommended.

6.1: Complete either MATH G235 or G285 for MATH 3A credit.

6.2: Complete either MATH G282 or MATH G285 for MATH 3D credit.

6.3: Students are required to complete:

a) One additional science sequence. Select from CHEM G180 + G185, PHYS G185 + G280 or PHYS G185 + G285, OR PHYS G185 + G280 + G285.

b) One Computer Science course Select from CS G145 or CS G153 or CS G175.

UCLA: BS Degree. Degrees available in Mathematics, Mathematics for Teaching, Mathematics of Computation, Mathematics/Applied Science, Mathematics Economics, Mathematics/Atmospheric and Oceanic Sciences. Students must complete at least four semesters of math through multivariable and linear algebra or differential equations prior to transfer.

7.1: Mathematics: Complete two additional sciences from: CHEM G180, CHEM G185, 7.2: Mathematics for Teaching Degree. Complete two courses from: PHYS G280, PHYS G285, CHEM G180, CHEM G185, CS G189

7.3: Mathematics for Computation: CS 262 required for this major. Complete PHYS G280, CS G175, CS G189 and one course from PHYS G285, or CHEM G180 or CHEM G185

7.4: Mathematics/Applied Science, additional courses required for Medical and Life Sciences Plan: CHEM G180 + G185; CHEM G220, BIOL G180 + G220 or G225; PHYS G185 + G280

7.5: Mathematics / Economics: Complete ENGL G110, CS G175, CS G262 ECON G170, and ECON G175

UC RIVERSIDE: Minimum 2.70 GPA required for admission consideration. Applicants must have at least one year of calculus, and one year of either chemistry, biology, physics, or Calculus 3 + Ordinary Differential Equations for entry. IGETC not accepted in this major. Three tracks available: Pure Math, Computational Math, and Applied Math with options in Biology, Chemistry, Economics, Environmental Science, Physics, and Statistics.

8.1: Complete either MATH G282 or G285

8.2: Complete either CS G145 or CS G175

8.3: Recommended prior to transfer. Course at UCR is taught at the upper division level. Subject credit granted if completed prior to transfer.

8.4: For Applied Math/Biology: Complete BIOL G180 + G182 + G183. For Applied Math/Chemistry: Complete CHEM G180 + G185 and PHYS G185 + G280 + G285. For Applied Math/Econ: Complete ECON G170; For Applied Math/EnvSci track: Complete CHEM G180 + G185, PHYS G185 + G280 + G285, and GEOL G110. For Applied Math/Physics: complete PHYS G185 + G280 + G285. For Applied Math/Statistics: Complete MATH G160

UC SAN DIEGO: BS Degree. Degrees available in Mathematics, Mathematics / Applied Science, Mathematics/Computer Science, Mathematics/Secondary Education, Applied Mathematics, Joint major in Mathematics and Economics, Mathematics: Probability and Statistics, and Mathematics: Scientific Computation.

9.1: MATH G185 + G285 or G282 is credited for MATH 20D at UCSD

9.2: For Mathematics/Computer Science, and Mathematics: Scientific Computation: Add CS G189

9.3: For Mathematics and Economics Joint Major: Add ECON G170 + G175