

For course prerequisites, refer to the “Course Descriptions” section of the catalog. Academic advisors should be consulted when scheduling courses.

**GENERAL EDUCATION (GE) 2001**

(60)

72 units required; 12 units are in Major/Support.  
Refer to catalog for selection of GE courses.

MAJOR REQUIREMENTS (85)	UNITS
MATH 141 Calculus I (B1)	4
MATH 142 Calculus II (B1)	4
MATH 143 Calculus III	4
MATH 202 Orientation to the Math Major	1
MATH 206 Linear Algebra I	4
MATH 241 Calculus IV	4
MATH 242 Differential Equations	4
MATH 248 Methods of Proof in Mathematics	4
MATH 306 Linear Algebra II	4
MATH 336 Combinatorial Mathematics	4
MATH 412 Introduction to Analysis I	4
MATH 459 Senior Seminar	4
MATH 461 Senior Project	2
MATH 462 Senior Project	2
MATH 481 Abstract Algebra I	4
<b>Advanced Work in Concentration:</b>	<b>32</b>

SUPPORT REQUIREMENTS (28)	UNITS
CSC/CPE 101 and 102 Fund Comp Sci I, II <b>or</b> CSC/CPE 235 and 236 Fund Comp Sci for Eng. I, II	8
PHYS 131 or 141 General Physics	4
PHYS 132 General Physics (B3 & B4)	4
PHYS 133 General Physics	4
STAT 321 Prob. and Stat. for Engrs and Scientists	4
STAT 322 Stat. Analysis for Engrs and Scientists	4

**FREE ELECTIVES:****UNITS**

7

Area A: Communication		Units
A1	Expository Writing	4
A2	Oral Communication	4
A3	Reasoning, Argumentation and Writing	4

**Area B: Science and Mathematics**

B1	Mathematics/Statistics	0
B2	Life Science	4
B3	Physical Science	0
B4	B2 or B3 Lab	0

**Area C: Arts and Humanities**

C1	Literature	4
C2	Philosophy	4
C3	Fine/Performing Arts	4
C4	Upper-Division Elective	4
	Area C Elective (Choose one course from C1-C4)	4

**Area D/E: Society and the Individual**

D1	The American Experience	4
D2	Political Economy	4
D3	Comparitive Social Institutions	4
D4	Self Development (CSU Area E)	4
D5	Upper-Division Elective	4

**Area F: Technology**

F	Upper-Division Elective	4
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**ADVANCED WORK IN CONCENTRATION****CONCENTRATION: (32 units)**

MATH 300 Technology in Mathematics Education (4)  
 MATH 341 Theory of Numbers (4)  
 MATH 419 Introduction to the History of Mathematics (4)  
 MATH 423 Advanced Mathematics for Teaching (4)  
 MATH 442 Euclidean Geometry (4)  
 MATH 443 Modern Geometries (4)  
 MATH 482 Abstract Algebra II (4)

**Select four units from the following:**

MATH 304, MATH 333, MATH 335, MATH 344, MATH 406, MATH 408,  
 MATH 413, MATH 417, MATH 431, MATH 437, MATH 440, MATH 470,  
 IME 301, PHYS 301, PHYS 302, PHYS 323, PHYS 405, STAT 425