

BACHELOR OF SCIENCE MATHEMATICS

GENERAL EDUCATION Courses that are **required** are in bold type.

Mathematics Major Code No. 134

REQUIRED HOURS.....	48-49
Communication.....	8
ENGL 1113 English Composition I	
ENGL 1213 English Composition II	
COMM 1312 Basic Speech	
*Mathematics.....	3
MATH 1143 Math Concepts	
MATH 1513 College Algebra OR a Higher numbered math course	
Computer Applications/Technology.....	2
COMSC 1022 Computers & Information Access	
TECH 1122 Technology & Society	
Economics.....	3
ECONO 1113 Contemporary Economics	
Health & Physical Education.....	3
HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)	
Natural Sciences.....	8
BIOL 1004 Biological Concepts	
SCI 1514 Concepts of Physical Science	
SCI 1614 Science & the Environment	
ASTRO 1904 Astronomy	
GEOL 1934 Physical Geology	
Fine Arts & Humanities.....	6
ART 1222 Art Survey	
LIT 2412 Introduction to Literature	
MUSIC 1012 Introduction to Music I	
PHILO 1452 Introduction to Philosophy	
U.S. History & Government.....	6
HIST 1063 U.S. History	
POLSC 1103 American Government & Politics	
International & Cultural Studies.....	6-7
HIST 1033 World History	
GEOG 1103 World Cultural Geography	
POLSC 1153 World Relations & Politics	
Foreign Language (4 hr/includes 3 hr class & 2 hr lab)	
Behavioral/Social Science.....	3
PSYCH 1003 General Psychology	
SOCIO 1003 Introduction to Sociology	

*Waived due to major requirement.

Required Courses.....	29-30 hours
MATH 1513 College Algebra AND MATH 1613 College Trigonometry	
OR MATH 1715 College Algebra and Trigonometry	
MATH 1834 Calculus I	
MATH 2834 Calculus II	
MATH 3653 Linear Algebra	
MATH 3834 Calculus III	
MATH 4213 Differential Equations I	
MATH 4653 Modern Algebra	
MATH 4853 Advanced Calculus	
Electives In Math.....	6 (3000-4000 Level Courses)
Computer Science.....	3
(Any Scientific Programming Language OR MATH 3533 Technology and Programming in Mathematics)	
A. Minor or Second Major.....	18-40
B. Free Electives.....	0-21
Electives to bring total to.....	124

Minor programs are listed on page 208.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....	124
Minimum credit hours in the liberal arts & sciences.....	55
Minimum credit hours in upper-division (3000/4000 courses).....	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU.....	8
Minimum credit hours at SWOSU (including last 8).....	30
Minimum Grade Point Average in all coursework.....	2.00
Minimum Grade Point Average in major.....	2.00

MATHEMATICS (CODE 134)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	2834 Calculus II.....4	3834 Calculus III..... 4
1113 English Comp I 3	1834 Calculus I.....4	Free Electives ²3	3653 Linear Algebra..... 3
1715 Coll Alg & Trig 5	Gen Educ Crses..... 8	Comp Programming ¹3	Gen Educ Crses 10
or 1513 & 1613		Gen Educ Crses.....6	
Gen Educ Crses..... 6		English Proficiency Exam**	
Total: 15	Total: 15	Total:16	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Math Electives ³ 6	4213 Differ Equations 3	4653 Modern Algebra3	4853 Advanced Calculus... 3
Gen Educ Crses..... 4	Math Electives ³ 3	Gen Educ Crse.....3	Free Electives ² 12
Free Electives ² 6	Gen Educ Crses..... 5	Free Electives ²9	
	Free Electives ² 5		
Total: 16	Total: 16	Total:15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

¹ Computer Programming: choose one from any scientific programming language OR MATH 3533 Technology and Programming in Mathematics

² Free Electives: Use to complete a second major or complete a double minor or complete a minor and take other courses of interest

³ Math Electives: choose from any 3000-4000 level math course except elementary or secondary educ courses