

Mathematics - General Emphasis

Associate in Science

Minimum of 61 Credits

Students who study mathematics have opportunities in many career fields. This is because mathematics plays such a central role in areas such as the physical and social sciences, engineering, computer science and business. At Oklahoma City Community College, mathematics students concentrate on algebra, analytical geometry, trigonometry and calculus. Mathematicians should have a high degree of reasoning ability and logic and be able to present facts and ideas clearly. When completing the Mathematics Program, students earn associate degrees and become prepared to continue their education at a four-year college or university. Career opportunities may be found in science, education, engineering, research, finance, economics, computers, government and construction.

Course #	Course Name	Credits	Type	Prerequisites
<i>Suggested Freshman 1st Semester</i>				
SCL 1001	SUCCESS IN COLLEGE AND LIFE	1	Life Skills	None
MATH 2104	(C) CALCULUS AND ANALYTIC GEOMETRY I	4	Major	(R) (W), MATH 1533 and MATH 1613 or adequate Math Placement Test Score
ENGL 1113	ENGLISH COMPOSITION I	3	Gen Ed	(R) (W), Adequate reading and writing assessment scores or LS 0033 College Writing II, either taken within the last year, with strong encouragement for immediate continuation.
HIST 1483	U.S. HISTORY TO THE CIVIL WAR --OR--		Gen Ed	(R) (W)
HIST 1493	U.S. HISTORY SINCE THE CIVIL WAR	3	Gen Ed	(R) (W)
BIO 1114	GENERAL BIOLOGY --OR--	4	Gen Ed	(R) (W) (M)
BIO	BIOLOGICAL SCIENCE 2000 LEVEL	3-4	Gen Ed	
<i>Suggested Freshman 2nd Semester</i>				
MATH 2214	(C) CALCULUS AND ANALYTIC GEOMETRY II	4	Major	(R) (W), MATH 2104 or equivalent within the last year
ENGL 1213	ENGLISH COMPOSITION II	3	Gen Ed	(R) (W), ENGL 1113 English Composition I taken within the last year, with strong encouragement for immediate continuation.
POLSC 1113	AMERICAN FEDERAL GOVERNMENT	3	Gen Ed	(R) (W)
PHYS 2014	ENGINEERING PHYSICS I	4	Gen Ed	(R) (W), MATH 2104 (or at least 4 hours of calculus) within the last year or Evaluation by Instructor Prerequisite or Corequisite: MATH 2214
GEN ED	GEN ED ELECTIVE	3	Gen Ed	
<i>Suggested Sophomore 1st Semester</i>				
MATH 2314	(C) CALCULUS AND ANALYTIC GEOMETRY III	4	Major	(R) (W), MATH 2214 or equivalent within the last year
HUM	HUMANITIES ELECTIVE (PHIL 1603 recommended)	3	Gen Ed	
SUPP	GUIDED SUPPORT ELECTIVE	6	Support	
GEN ED	GEN ED ELECTIVE	3	Gen Ed	
<i>Suggested Sophomore 2nd Semester</i>				
SUPP	GUIDED SUPPORT ELECTIVE	5	Support	
GEN ED	GEN ED ELECTIVE	6	Gen Ed	
HUM	HUMANITIES ELECTIVE	3	Gen Ed	

Major Courses: (12 credit hours) Mathematics: (C) MATH 2104; (C) MATH 2214; (C) MATH 2314

*General Education Courses: (37 credit hours) English: ENGL 1113; ENGL 1213; History: HIST 1483 or HIST 1493; Political Science: POLSC 1113; Sciences: Seven or eight credit hours which include: PHYS 2014 and BIO 1114 or any 2000 level general education BIO course.; Humanities: Six credit hours (PHIL 1603 recommended); Electives: General Education Electives 12 credit hours
Life Skills Courses: (1 credit hour) Life Skills: SCL 1001*

Support Courses: (11 credit hours) Selected from the following approved support courses with at least one course at the 2000 level: MATH 1503; MATH 1533; MATH 1613; MATH 2000; MATH 2013; MATH 2023; MATH 2213; MATH 2413; CS 1143; CS 2123; CS 2163; CS 2363; any 2000 level BIO; CHEM 1115; CHEM 1215; any 2000 level CHEM; ECON 2113; ECON 2123; any ENGR; GEOL 1114; PHYS 1504 or PHYS 1514 (but not both); any 2000 level PHYS.

Notes: This program is designed for students planning to continue their education at a four-year college or university. See University Parallel/Transfer Programs for information and requirements in the general information section of the catalog.

(C) A grade of "C" or higher must be achieved.