



MATHEMATICS

Program Code: MATH

PROGRAM DESCRIPTION: The Associates in Science degree is a program that offers students the mathematics courses needed for their first two years of a mathematics degree at most four-year institutions. Our courses start at College Math, work their way through the developmental series to College Algebra, Trigonometry, Pre-calculus, Statistics, Discrete Math, and Calculus. The Calculus series highest class offered is Differential Equations. The goals of all the mathematics courses are not just to prepare students for future math classes, beyond Differential Equations, but to develop an understanding and appreciation of how mathematics is used and applied in real-world situations. With small class sizes, our professors can help each student achieve what they are striving for in their chosen math class. The semester-by-semester plans described below are general guidelines. Students should work closely with their academic advisors to develop a plan that best meets their own individual needs and goals.

PROGRAM OUTCOMES AND CURRICULUM MAP.

Minimum Credit Hours Required to Graduate = 60

Semester 1		15-17 hours
Course No.	Course Title	Credit
*ENGL-101	English I.....	3
*MATH-122	Calculus & Analytic Geometry I.....	5
*	Lab Science Requirement.....	4-5
*	Student Success Requirement.....	1
*	Personal Wellness Requirement.....	2-3

Semester 2		16 hours
Course No.	Course Title	Credit
*ENGL-102	English II.....	3
**MATH-123	Calculus & Analytic Geometry II.....	5
***	Program Elective Course (select from list below).....	5
*PSYC-101/SOCI-102	General Psychology or Introduction to Sociology.....	3

Semester 3		14-16 hours
Course No.	Course Title	Credit
*COMM-101	Public Speaking.....	3
**MATH-205	Calculus & Analytic Geometry III.....	5
***	Program Elective Course (select from list below).....	3-5
*	Humanities & Fine Arts Requirement.....	3

Semester 4		12-14 hours
Course No.	Course Title	Credit
***	Program Elective Course (select from list below).....	3-5
	Open Elective Course.....	3
*	Social Science Requirement.....	3
*	Humanities & Fine Arts Requirement.....	3

*** PROGRAM ELECTIVE COURSES

Course No.	Course Title	Credit
BIOL-105	General Biology.....	4
BIOL-114	Biology I.....	4
CHEM-109	College Chemistry I.....	5
CHEM-110	College Chemistry II.....	5
CSCI-102	Introduction to Programming.....	3
CSCI-107	Advanced Programming.....	3
ECON-111	Principles of Economics: MACRO.....	3
ECON-112	Principles of Economics: MICRO.....	3
EDUC-105	Foundations of Education.....	3
EDUC-1062	Observation.....	2
EDUC-210	Exceptional Child.....	3
MATH-110	Fundamentals of Statistics.....	3
MATH-116	Discrete Mathematics.....	3
MATH-206	Differential Equations.....	3
PHYS-205	General Physics I.....	5
PHYS-206	General Physics II.....	5
PHYS-207	Engineering Physics I.....	5
PHYS-208	Engineering Physics II.....	5
PSYC-210	Developmental Psychology.....	3

* CORE CURRICULUM REQUIREMENT

Communications, Mathematics & Natural Sciences, Social Sciences, Humanities & Fine Arts, Personal Wellness, Student Success

** REQUIRED PROGRAM COURSE

*** PROGRAM ELECTIVE COURSE

Other courses are subject for approval with submission of Graduation Substitution form.