PROGRAM OF STUDY

Mathematics Associate in Science

The Mathematics program provides curriculum from basic arithmetic to algebra, statistics, linear algebra, calculus, and differential equations. These courses fulfill breadth requirements, associate degree requirements and transfer major requirements for degrees in mathematics, physics, chemistry and engineering. Many B.A./B.S. level careers require extensive background in mathematics. Virtually all two-year career programs in the business or technology fields require a solid foundation in mathematics. Examples of these career options include computer programmer, financial analyst, statistician, systems analyst, urban planner, and teacher.

Student Learning Outcome:
Students will be prepared for the mathematical reasoning required in upper division work in their major, including the ability to generalize concepts and comprehend increasing levels of abstraction.
Students will demonstrate mathematical literacy, problem solving ability, and modeling ability.

Program Requirements:		**Units**
MATH 211	Calculus I	5 - 0
MATH 212	Calculus II	5 - 0
MATH 213	Calculus III	5 - 0

Plus three units from the following:		**Units**
MATH 140	Introductory Statistics	4 - 0
	or	
MATH 140H	Introductory Statistics - Honors	4 - 0
MATH 214	Linear Algebra	3 - 0
MATH 215	Differential Equations	3 - 0
CMPSCI 111	Introduction to Algorithms & Programming/Java	3 - 0
PHYSIC 220	Physics for Scientists and Engineers: Mechanics of Solids and Fluids	4 - 0

Total Units	**18**

Major Code: 1562.MATH.AS