Yan, Simon
Yang, Christie
Ysais, Rey S.
Zhou, Zhiming
Zhuang, Eagle Y.

EDUCATIONAL PROGRAMS

ASSOCIATE DEGREE PROGRAMS:

- ***Mathematics - A.A., A.S.***

TRANSFER CURRICULUM:

- ***Computer Science***
- ***Mathematics***

ASSOCIATE DEGREE PROGRAMS

MATHEMATICS

Associate in Arts Degree

The program is designed to award the Associate in Arts degree to those students who have completed a specialization in mathematics. This degree program is intended to meet the needs of mathematics students who do not require a science component for their degree. The requirements were chosen to optimize student preparation for upper division coursework at a four-year institution leading to a minor in mathematics or a Bachelor's degree in a field related to mathematics. The degree program offers training in both pure and applied mathematics leading to careers in research, business, industry, and government. In addition, many areas, such as accounting, actuarial science, management, and operations research depend upon the use of mathematics in developing solutions to practical problems.

SUBJECT & NO.	COURSE	UNITS
MATH 173	Introduction to Mathematical Programming	3
MATH 261	Calculus I	5
MATH 262	Calculus II	5
MATH 263	Calculus III	5
ONE COURSE FROM AMONG THE FOLLOWING:		
MATH 270	Linear Algebra	3
MATH 275	Ordinary Differential Equations	3
MATH 280	Introduction to Numerical Analysis	3
MATH 282	Introduction to Abstract Algebra	3
MATH 284	Introduction to Number Theory	3
General Education Courses (Plan A):		
Area A	Natural Sciences	3
Area B	Social and Behavioral Sciences	9
Area C	Humanities	3
Area D	Language and Rationality	12
Area E	Health and Physical Education.	3
ELECTIVES - 9 UNITS FROM AMONG THE FOLLOWING		**9**
MATH 132	Graphics Calculator	1
MATH 192	TI Graphing Calculator	1
MATH 227	Statistics	4
MATH 241	Trigonometry with Vectors.	4
MATH 260	Pre-Calculus	5
MATH 270	Linear Algebra	3
MATH 273	Introduction to Object-Oriented Programming	3
MATH 275	Ordinary Differential Equations	3
MATH 280	Introduction to Numerical Analysis	3
MATH 282	Introduction to Abstract Algebra	3
MATH 284	Introduction to Number Theory	3
	Total	*60*

MATHEMATICS

Associate in Science Degree

The program is designed to award the Associate in Science degree to those students who have completed a specialization in mathematics. The requirements were chosen to optimize student preparation for upper division coursework for a Bachelor's degree in mathematics at a four-year institution. The degree program offers training in both pure and applied mathematics leading to career in research, education, business, industry, and government. In addition, many areas, such as the physical and biological sciences, engineering, business, and economics depend upon the use of mathematics in developing solutions to practical problems.

SUBJECT & NO.	COURSE	UNITS
MATH 173	Introduction to Mathematical Programming	3
MATH 261	Calculus I	5
MATH 262	Calculus II	5
MATH 263	Calculus III	5
PHYSICS 1	Mechanics of Solids	4
MATH 270	Linear Algebra	3
MATH 275	Ordinary Differential Equations	
OR		
MATH 280	Introduction to Numerical Analysis	
OR		
MATH 282	Introduction to Abstract Algebra	
OR		
MATH 284	Introduction to Number Theory	3
General Education Courses (Plan B):		
Area A	Natural Sciences	3
Area B	Social and Behavioral Sciences	3
Area C	Humanities	3
Area D	Language and Rationality	6
Area E	Health and Physical Education.	3
ELECTIVES - 14 UNITS FROM AMONG THE FOLLOWING		**14**
MATH 132	Graphics Calculator	1
MATH 192	TI Graphing Calculator	1
MATH 227	Statistics	4
MATH 273	Introduction to Object-Oriented Programming	3
BIOLOGY 6	General Biology I	5
BIOLOGY 7	General Biology II	5
CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II.	5
PHYSICS 2	Mechanics of Fluids, Heat, and Sound	4
PHYSICS 3	Electricity and Magnetism	4
PHYSICS 4	Optics and Modern Physics	4
	Total	*60*

TRANSFER CURRICULUM

Transfer requirements are subject to change. Students should check with a counselor for current transfer information.