

ARTS AND SCIENCES TRANSFER DEGREE

Pure and Applied Mathematics (Area of Concentration) – M503

Associate of Science Degree (AS)

CATALOG DESCRIPTION OF PROGRAM:

Increasingly, highly motivated students whose sights are set on careers in law, medicine, pharmacy, business, education, government service, journalism, the visual arts, music, the social sciences, languages, and other fields are finding that the most strongly recommended path to a bachelor's degree and professional school training is a liberal arts education. BCCC's Arts and Sciences Transfer Program is an excellent means to begin this path.

COURSE	CURRENT SEQUENCE	CREDITS	PREREQUISITES	SEMESTER	GRADE
1st Semester					
PRE 100	Preparation for Academic Achievement	1	None		
ENG 101	English Writing	3	ENG 82 or RENG 92 or appropriate course		
HLF-Elective	Health and Life Fitness	1	Depends on course chosen		
MAT 140	Calculus I	4	MAT 129		
PHI 104	Logic and Critical Thinking	3	ENG 82 or RENG 92		
SP 101	Fundamentals of Speech Communication	3	ENG 82 or RENG 92 or appropriate course		
Semester Credits		15			
2nd Semester					
CSC 108	Programming in C	3	ENG 82 or RENG 92; MAT125 or MAT 128; CISS 116		
ECO 201	The American Economy I: Macroeconomic Theory	3	ENG 82 or RENG 92		
ENG 200	Introduction to Literature	3	ENG 101		
MAT 141	Calculus II	4	MAT 140		
MAT 107	Modern Elementary Statistics	3	MAT 86 or MAT 91 and RENG 92		
Semester Credits		16			
3rd Semester					
MAT 219	Discrete Mathematics	3	MAT 129		
H 101 or H 151	History of American Civilization I or World History I	3	ENG 82 or RENG 92		
MAT 210	Advanced Calculus	4	MAT 141		
PHY 203	General Physics I	5	MAT 140		
Semester Credits		15			
4th Semester					
HLF-Elective	Health and Life Fitness	1	None		
MAT 211	Differential Equations	4	MAT 141		
MAT 212	Linear Algebra	4	MAT 141		
PHY 204	General Physics II	5	MAT 141; PHY 203		
Semester Credits		14			
PROGRAM TOTAL		60			

Advisor Signature: _____

Date: _____

Student Signature: _____

Date: _____

Pre-Requisites for Students in Developmental Courses

COURSE	CURRENT SEQUENCE	CREDITS	PREREQUISITES	SEMESTER	GRADE
RENG 90	Intensive Program Writing	4 hrs.	Placement Test		
RENG 91	Composition Skills I	4 hrs.	Placement Test or RENG 90		
RENG 92	Composition Skills II	4 hrs.	Placement Test or RENG 91		
MAT 80	Arithmetic	3 hrs.	Placement Test		
MAT 86/	Integrated Pre-Algebra and Introductory Algebra	5 hrs.	Placement Test or MAT 80 Students who complete MAT 80 with an A or B within a one year period; Students who recently (within one year) failed and need to repeat MAT 91; students whose ACUPLACER placement score on Elementary Algebra falls within the range 52-62.		
MAT 87M	Integrated Elementary and Intermediate Algebra				
MAT 91	Elementary Algebra	4 hrs.	Placement Test or MAT 80		
MAT 92	Intermediate Algebra	4 hrs.	Placement Test or MAT 91		