

MATHEMATICS
Associate of Science Degree
Catalog 2009–2010

The Associate of Science degree is intended for transfer to a four-year baccalaureate granting institution. Those wishing to transfer to a baccalaureate granting institution and pursue a degree program are strongly encouraged to check with their advisor and carefully coordinate their coursework at San Juan College with the requirements of the transfer institution. Prerequisite courses must be completed prior to the courses listed below (e.g., MATH 180 and 185 prior to MATH 188). In general, however, it is suggested that students complete the New Mexico Transfer Module as outlined below.

				Credit Hours	Grade
1st Semester					
_____	COSC	118	Computer Programming Fundamentals I with C++ OR		
_____	COSC	214	Visual Basic I	3	_____
_____	ENGL	111	Freshmen Composition	3	_____
_____	_____	_____	Humanities and Fine Arts course*	3	_____
_____	MATH	188	Calculus I	4	_____
_____	MATH	251	Statistics	<u>4</u>	_____
				Total 17	
2nd Semester					
_____	ENGL	211	Advanced Composition	3	_____
_____	_____	_____	Humanities and Fine Arts Course*	3	_____
_____	MATH	189	Calculus II	4	_____
_____	PHYS	215	Engineering Physics I	4	_____
_____	SPCH	110	Public Speaking OR		
_____	SPCH	111	Interpersonal Communication	<u>3</u>	_____
				Total 17	
3rd Semester					
_____	MATH	268	Calculus III	4	_____
_____	PHYS	216	Engineering Physics II	4	_____
_____	_____	_____	Social and Behavioral Science Course*	3	_____
_____	_____	_____	Approved Science Elective**	<u>4</u>	_____
				Total 15	
4th Semester					
_____	MATH	231	Discrete Mathematics	3	_____
_____	_____	_____	Humanities and Fine Arts Course*	<u>3</u>	_____
_____	_____	_____	Approved Science** OR		
_____	_____	_____	Mathematics Elective**	3–4	_____
_____	_____	_____	Approved Science** OR		
_____	_____	_____	Mathematics Elective**	3–4	_____
_____	_____	_____	Social and Behavioral Science Course*	<u>3</u>	_____
				Total 15-17	

Total credit hours required for this degree 64 - 66

* See page 158, 2009-2010 San Juan College catalog.

** Approved science and math courses are:

CHEM 111 – General Chemistry I (4.0)
CHEM 112 – General Chemistry II (4.0)
CE 233 – Mechanics-Statics (3.0)
EE 201 – Engineering Circuit Analysis (3.0)
GEOL 110 – Introduction to Geology (4.0)
GEOL 111 – Historical Geology (4.0)

MATH 275 – Linear Algebra (3.0)
MATH 282 – Differential Equations (4.0)
ME 159 – Graphical Communication and Design (2.0)
ME 234 – Mechanics-Dynamics (3.0)
ME 240 – Thermodynamics (3.0)
PHYS 217 – Engineering Physics III (3.0)