MATHEMATICS
Associate of Science Degree
Catalog 2010–2011

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	4		_____
				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		_____
____	COMM	110	Public Speaking **OR**			
____	COMM	111	Interpersonal Communication	3		_____
				Total	17	
3rd Semester						
____	MATH	268	Calculus III	4		_____
____	PHYS	216	Engineering Physics II	4		_____
____	_____	____	Social and Behavioral Science Course*	3		_____
____	_____	____	Approved Science **OR** Mathematics Elective**	4		_____
				Total	15	
4th Semester						
____	MATH	231	Discrete Mathematics	3		_____
____	_____	____	Humanities and Fine Arts Course*	3		_____
____	_____	____	Approved Science **OR** Mathematics Elective**	3–4		_____
____	_____	____	Approved Science Elective**	3–4		_____
____	_____	____	Social and Behavioral Science Course*	3		_____
				Total	15-17	

Total credit hours required for this degree 64 - 66

* See page 101 for Social and Behavioral Science; and Humanities and Fine Arts 2010-2011 San Juan College catalog.

** Approved science and mathematics courses are:

CHEM 111 – General Chemistry I (4.0)
CHEM 112 – General Chemistry II (4.0)
DRFT 121 – Engineering Graphics (3.0)
ENGR 230 – Engineering Circuit Analysis (3.0)
ENGR 233 – Mechanics-Statics (3.0)
ENGR 234 – Mechanics-Dynamics (3.0)
ENGR 236 – Thermodynamics (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)
PHYS 217 – Engineering Physics III (3.0)