

ENGINEERING
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. Pre-requisite 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.

Students must have a minimum 2.0 grade point average and may not receive a grade of "D" or "F" in any of the courses required for transfer.

| | | | | Credit Hours | Grade |
|---------------------|-------|-------|--|-----------------|-------|
| 1st Semester | | | | | |
| _____ | CHEM | 111 | General Chemistry I | 4 | _____ |
| _____ | COSC | 118 | Computer Programming Fundamentals I with C++ | 3 | _____ |
| _____ | ENGL | 111 | Freshmen Composition | 3 | _____ |
| _____ | ENGR | 111 | Introduction to Engineering | 2 | _____ |
| _____ | MATH | 188 | Calculus I | <u>4</u> | _____ |
| | | | | Total 16 | |
| 2nd Semester | | | | | |
| _____ | CHEM | 112 | General Chemistry II | 4 | _____ |
| _____ | ENGL | 211 | Advanced Composition OR | | |
| _____ | ENGL | 218 | Advanced Technical Composition | 3 | _____ |
| _____ | _____ | _____ | Humanities and Fine Arts Course* | 3 | _____ |
| _____ | MATH | 189 | Calculus II | 4 | _____ |
| _____ | PHYS | 215 | Engineering Physics I | <u>4</u> | _____ |
| | | | | Total 18 | |
| 3rd Semester | | | | | |
| _____ | CE | 233 | Mechanical-Statics | 3 | _____ |
| _____ | EE | 201 | Engineering Circuit Analysis | 3 | _____ |
| _____ | MATH | 268 | Calculus III | 4 | _____ |
| _____ | PHYS | 216 | Engineering Physics II | 4 | _____ |
| _____ | _____ | _____ | Social and Behavioral Science Course* | <u>3</u> | _____ |
| | | | | Total 17 | |
| 4th Semester | | | | | |
| _____ | ECON | 251 | Macroeconomics OR | | |
| _____ | ECON | 252 | Microeconomics | 3 | _____ |
| _____ | _____ | _____ | Humanities and Fine Arts Course* | 3 | _____ |
| _____ | MATH | 282 | Differential Equations | 4 | _____ |
| _____ | ME | 159 | Graphical Communication and Design | 2 | _____ |
| _____ | ME | 234 | Mechanics –Dynamics | 3 | _____ |
| _____ | ME | 240 | Thermodynamics | <u>3</u> | _____ |
| | | | | Total 18 | |

Total credit hours required for this degree 69

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