

PHYSICS  
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.

|                     |       |       | <b>Credit<br/>Hours</b>                     | <b>Grade</b> |       |
|---------------------|-------|-------|---|--------------|-------|
| <b>1st Semester</b> |       |       |   |              |       |
| _____               | CHEM  | 111   | General Chemistry I                         | 4            | _____ |
| _____               | COSC  | 118   | Computer Programming Fundamentals I with C+ | 3            | _____ |
| _____               | _____ | _____ | Humanities and Fine Arts course*            | 3            | _____ |
| _____               | ENGL  | 111   | Freshmen Composition                        | 3            | _____ |
| _____               | MATH  | 188   | Calculus I                                  | <u>4</u>     | _____ |
|                     | Total |       |   | 17           |       |
| <b>2nd Semester</b> |       |       |   |              |       |
| _____               | CHEM  | 112   | General Chemistry II                        | 4            | _____ |
| _____               | ENGL  | 211   | Advanced Composition                        | 3            | _____ |
| _____               | _____ | _____ | Humanities and Fine Arts Course*            | 3            | _____ |
| _____               | MATH  | 189   | Calculus II                                 | 4            | _____ |
| _____               | PHYS  | 215   | Engineering Physics I                       | 3            | _____ |
| _____               | PHYS  | 215L  | Engineering Physics Lab I                   | <u>1</u>     | _____ |
|                     | Total |       |   | 18           |       |
| <b>3rd Semester</b> |       |       |   |              |       |
| _____               | EE    | 201   | Engineering Circuit Analysis                | 3            | _____ |
| _____               | MATH  | 268   | Calculus III                                | 4            | _____ |
| _____               | PHYS  | 216   | Engineering Physics II                      | 3            | _____ |
| _____               | PHYS  | 216L  | Engineering Physics Lab II                  | 1            | _____ |
| _____               | SPCH  | 110   | Public Speaking <b>OR</b>                   |              |       |
| _____               | SPCH  | 111   | Interpersonal Communications                | 3            | _____ |
| _____               | _____ | _____ | Social and Behavioral Science Course*       | <u>3</u>     | _____ |
|                     | Total |       |   | 17           |       |
| <b>4th Semester</b> |       |       |   |              |       |
| _____               | ECON  | 251   | Macroeconomics <b>OR</b>                    |              |       |
| _____               | ECON  | 252   | Microeconomics                              | 3            | _____ |
| _____               | MATH  | 282   | Differential Equations                      | 4            | _____ |
| _____               | PHYS  | 217   | Engineering Physics III                     | 3            | _____ |
| _____               | ME    | 240   | Thermodynamics                              | 3            | _____ |
| _____               | _____ | _____ | Humanities and Fine Arts Course*            | <u>3</u>     | _____ |
|                     | Total |       |   | 16           |       |

Total credit hours required for this degree 68

\* See page 158, 2009-10 San Juan College catalog.