

Physical Sciences

ASSOCIATE OF SCIENCE DEGREE (AS)

REQUIRED CREDITS: 60

DEGREE CODE: PHYS-AS

DESCRIPTION

The Associate of Science Degree is a general transfer program for students who are planning to transfer to a baccalaureate or pre-professional institution. A secondary objective may be employment upon completion of the AS degree.

STUDENT LEARNING OUTCOMES

- Demonstrate knowledge of Scientific Methods and the relationship of theory, experiment, data analysis, and general knowledge.
- Demonstrate the ability to analyze data and perform dimensional and graphical analysis of collected data.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (35 CREDITS)

MATHEMATICS (4-6 credits)

MATH 126 and 127; or 128; or 181 or above

ENGLISH COMPOSITION (6-8 credits)

See AA/AB/AS policy p. 45 for courses

LITERATURE (3 credits)

Recommended: ENG 231 or 232

HUMANITIES (6 credits)

COM 101; and one course from the following:
ENG 224 or above; HIST; International Languages 111 or above; PHIL

FINE ARTS (3 credits)

See AA/AB/AS policy p. 46 for courses

SOCIAL SCIENCE (9 credits)

(Nine credits must be from three different disciplines): ANTH; CRJ 104; ECON; PSC 200 or above; PSY; SOC; WMST 113

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

VALUES AND DIVERSITY

All students MUST fulfill this requirement. Course chosen may also be used to fulfill the corresponding general education or special program requirements. Completing ENG 231 or 232 as recommended for the "Literature" requirement will also cover the "Values and Diversity" requirement.

SPECIAL PROGRAM REQUIREMENTS (25 CREDITS)

CORE REQUIREMENTS (4 credits)

CHEM 121 General Chemistry I 4

Choose onegroup (4 credits)

Group 1:

PHYS 151 General Physics I 4

Group 2:

PHYS 180 Physics for Scientists and Engineers I 3

PHYS 180L Physics for Scientists and Engineers Lab I 1

SPECIAL PROGRAM REQUIREMENTS CONTINUED

PHYSICAL SCIENCES ELECTIVES (17 credits)

(Choose from the following, two must include a lab):

AST 103 Introductory Astronomy The Solar System 3
May choose AST 103 or AST 104 – NOT BOTH

AST 104 Introductory Astronomy: Stars and Galaxies 3
May choose AST 103 or AST 104 – NOT BOTH

AST 105 Introductory Astronomy Laboratory 1

CEE 241 Statics 3

CHEM 122 General Chemistry II 4

CHEM 241 Organic Chemistry I 4

CHEM 242 Organic Chemistry II 4

ENV 101 Introduction to Environmental Science 3

ENV 220 Introduction to Ecological Principles 3

GEOG 103 Physical Geography 3

GEOL 101 Geology: Exploring Planet Earth 4

GEOL 102 Earth and Life Through Time 4

MATH 182 Calculus II 4

MATH 283 Calculus III 4

ME 242 Dynamics 3

PHYS 152 General Physics II 4
May choose PHYS 152; or PHYS 181 and PHYS 181L – NOT BOTH

PHYS 181 Physics for Scientists and Engineers II 3
May choose PHYS 152; or PHYS 181 and PHYS 181L – NOT BOTH

PHYS 181L Physics for Scientists and Engineers Lab II 1
May choose PHYS 152; or PHYS 181 and PHYS 181L – NOT BOTH

PHYS 182 Physics for Scientists and Engineers III 3
Choosing PHYS 182 requires also taking PHYS 182L

PHYS 182L Physics for Scientists and Engineers Lab III 1
Choosing PHYS 182 requires also taking PHYS 182L

See Degree Plan on next page.

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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FULL-TIME STUDENT DEGREE PLAN

Plan can be modified to fit the needs of part-time students by adding more semesters.

FIRST SEMESTER	Credits
ENG 100 or 101 or 113	3-5
MATH 128 or 181 ¹	4
COM 101 Oral Communication	3
CHEM 121 General Chemistry I	4
TOTAL CREDITS	14-16

SECOND SEMESTER	Credits
ENG 102 or 114	3
Complete Humanities ² (see courses previous page)	3
Complete Electives ³ (see courses this page)	4
PHYS 151; or PHYS 180 and 180L	4
TOTAL CREDITS	14

THIRD SEMESTER	Credits
Complete Social Science (see courses previous page)	6
See AA/AB/AS Fine Arts p. 46	3
Complete Electives ³ (see courses previous page)	4
Complete Electives ⁴ (see courses previous page)	3
TOTAL CREDITS	16

FOURTH SEMESTER	Credits
ENG 231 or 232	3
PSC 101 Introduction to American Politics	4
Complete Social Science (see courses previous page)	3
See degree sheet for course choices ⁴ (see courses previous page)	6
TOTAL CREDITS	16

DEGREE PLAN TOTAL CREDITS..... **60-62**

¹Students who do not place into MATH 128 or 181 will need to complete MATH 126 and MATH 127 (which is listed on the degree sheet to count towards the completion of this degree). Students should understand this route will make them complete more credits in order to complete this degree and it will take them more semesters to complete the degree as well.

²Use the course list that follows “COM 101 and one course from the following”

³Choose a Physical Science Elective with a lab

