



COUNSELING CENTER ADVISING

AS-Associate Degree

BIOLOGICAL SCIENCES

- Every course in the major requires a minimum grade of “C”
- Maximum of 12 pass/no pass units accepted
- Minimum of 12 units must be completed at AVC (credit earned by examination will not be included in these 12 units)
- Refer to catalog or online website for course listings, descriptions, and suggested course sequence if available
- Certificate in Biological Science is not Available
- Students who intend to transfer are strongly encouraged to complete either the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breath (CSU GE).

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| Major Required Courses | units |
| BIOL 110, General Molecular Cell Biology | 5 |
| BIOL 120, General Organismal, Ecological and Evolutionary Biology | 5 |
| Program Electives (see below) | 8 |
| Units Required for Major | 18 |

Program Electives

Complete 8 or more units from the following:

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|------------------------------------|----|
| BIOL 201, General Human Anatomy | 4 |
| BIOL 202, General Human Physiology | 4 |
| BIOL 204, General Microbiology | 5 |
| CHEM 110, 120, General Chemistry | 10 |

other requirements for degree

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|--|-------|
| General Education | 21-27 |
| Proficiency (See Proficiency Requirements) * | * |
| Electives | 15-21 |

Minimum Units Required 60

*Fulfilling proficiencies will not require any extra units if the competencies are demonstrated by including the required courses in the general education, or major requirements, or by satisfying the reading proficiency through AVC’s policy.

Specific areas of study, e.g., Environmental Science, Anatomy, Physiology, Microbiology, etc. should be arranged with the assistance of the biology faculty. The faculty suggests that appropriate courses in chemistry, physics, and mathematics be taken concurrently with the biology courses.

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| Suggested Courses: | units |
| MATH 140, Precalculus | 4 |
| PHYS 101, 102, Introductory Physics | 8 |

Completion of this degree is only a partial fulfillment of the requirements for transfer as a Biology major to an institution granting a baccalaureate degree.

(See Graduation/Associate Degree Requirements.)

NOTE: The Biology faculty highly recommend that BIOLOGY majors enroll in BIOL 110 or 120 as soon as the Prerequisites are met.

General Education Requirements

At least 3 units from each of the following areas below: A, B, C, D1, D2, E, and F.

Minimum Total GE Units Required 21

Area A Natural Sciences

- (min. 3 units)
- ANTH 101, 101L
 - ASTR 101, 101L
 - BIOL 100, 101, 101L, 102, 103, 104, 110, 120, 201, 202, 204, 205
 - CHEM 101, 102, 110
 - ELTE 101
 - ERSC 101
 - GEOG 101, 101L, 102, 102L
 - GEO 101, 101L, 102, 102L
 - PHYS 101, 102, 110, 120, 211
 - PSCI 101

Area B Social & Behavioral Sciences

- (min. 3 units)
- AJ 201, 204, 206
 - ANTH 102, 103, 112, 140
 - BUS 101
 - CFE 102
 - COMM 217
 - DFST 105
 - ECON 100, 101, 102, 110
 - GEOG 105, 106, 110
 - HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116, 118, 119
 - POLS 101, 103, 200, 201, 202, 203
 - PSY 101, 201, 212, 230, 232, 233, 234, 235, 236
 - SOC 101, 105, 110, 111, 112, 115, 116, 120

Area C Humanities

- (min. 3 units)
- ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136, 137, 140, 145, 150, 163, 170, 210, 213
 - CHIN 101, 102, 201, 202
 - COMM 103, 112, 114, 214
 - DA 101
 - DFST 101, 102, 105, 106, 201, 202
 - ENGL 102, 111, 112, 113, 221, 222, 225, 227, 230, 231, 235, 236, 240, 242, 246, 250, 253, 256, 257, 259, 265, 279
 - FREN 101, 102, 201, 202, 203
 - FTV 101, 103, 107, 108, 201, 203, 241, 251, 261
 - GER 101, 102, 201, 202
 - HIST 115
 - ID 150, 201
 - LATN 101, 102, 201
 - MUS 101, 105, 111, 131, 132, 151, 153, 185, 231, 232, 251A, 251B, 253A, 253B
 - MUSC 102, 103, 107, 108
 - PHIL 105, 106, 108, 109
 - PHOT 107
 - PHTC 101, 150, 201
 - SPAN 101, 110SS, 102, 201, 202, 210SS, 220SS

Biological Sciences

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- THA 101, 102, 103, 110, 115A, 115B, 116A, 116B, 117A, 117B, 118A, 118B, 121A, 121B, 130, 133, 225, 239

Area D Language & Rationality

- (min. 3 units from (1) and 3 units from (2))
1. *Academic Composition:* Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.
 - ENGL 101
 2. *Communication and Analytical Thinking*
 - BUS 113
 - CA 103
 - CIS 101, 111, 141, 157, 161
 - COMM 101, 103, 107, 109, 112, 114, 115, 217, 219
 - ENGL 102, 103
 - GEOG 201, 205
 - MATH 102, 110, 115, 116, 120, 124, 128, 135, 140, 148, 150, 160, 220, 230, 250
 - PHIL 101, 106, 110, 201

Area E - Additional Breadth

- (min. 3 units)
- From areas A**, B**, C**, D2 **or
- CFE 102
 - COMM 103, 107, 219
 - DFST 105
 - HD 100, 101, 102, 103, 105
 - HE 101, 120, 201
 - ID 100, 120
 - KINT 100
 - LIB 107, 110
 - MUSC 108
 - NF 100, 102, 103, 110, 150
 - PSY 212
 - SOC 111, 116
- Any DA activity course(s) from DA102-205, except DA 107A-C, 108, 109, and 111.
- Any Kinesiology Fitness (KINF) activity course, Intercollegiate Athletics (IATH) activity course, or up to 4 units for military experience.

** Courses must be taken from a discipline not previously selected.

Area F Diversity Studies

- (min. 3 units)
- ANTH 102, 112
 - BUS 212
 - CFE 116
 - COMM 114, 217, 219
 - DFST 105, 106
 - ECON 110
 - ENGL 250, 253, 256, 257, 259
 - FTV 201, 203
 - HE 201
 - HIST 110, 111, 113
 - MUSC 107, 108
 - POLS 202
 - SOC 105, 110, 116
 - THA 239

Proficiency Requirements

Proficiency requirements exist for the areas of Reading, Writing and Math. Students must demonstrate competency in each of these areas in order to be eligible for the associate degree.

A. READING

Eligibility for College Level Reading (AVC assessment) or completion of READ 099 with a minimum grade of "P" (Pass), or completion of an Associate Degree or higher from a regionally accredited institution of higher education.

B. WRITING

Completion of ENGL 101 with a minimum grade of "C." NOTE: ENGL 101 may be taken with the Pass/No Pass option; however, students are cautioned that other colleges and universities may not accept ENGL 101 courses taken on a Pass/No Pass basis, especially for satisfaction of general education and major requirements. Students planning to transfer should check college catalogs for applicable policies.

C. MATHEMATICS

Completion of MATH 102 or higher or CIS 121 with a satisfactory grade or placement by AVC assessment into a math course higher than MATH 102.

Electives

The remaining number of units (up to a minimum of 60) are considered electives. Any course that has already been counted toward (1) the general education requirements, or (2) the major, cannot be used as an elective. Any course with a designation of "AVC" at the end of a course description can be used as an elective.

Grade Point Average Requirement

An overall grade point average of 2.0 ("C" average) is required.

Double Counting: While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.

Residence Requirement

Of the required 60 units, "at least 12 semester units must be completed in residence at the college granting the degree." Title 5, Section 54000 et seq. Title 5 of the California Code of Regulations is available at <http://ccr.oal.ca.gov> and in the Antelope Valley College Library.

Requirements for Two or More Associate Degrees

To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

Transfer

Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center and consult with a counselor as soon as possible to develop a plan of studies. Additional information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: www.assist.org

Transferability of courses to the CSU or UC systems is indicated at the end of a course description by the notation "(UC, CSU)." For the transferability of courses to all other universities, please consult with a counselor or the Transfer Resource Center.

The "Catalog Rights Policy" sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.

For an educational plan, please consult with a counselor. To obtain counseling services please call: (661) 722-6300 ext. 6338.

Prerequisite Completion

If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade in order to enroll in the next course. According to Title 5, Section 55200(d), a satisfactory grade is a grade of "A," "B," "C" or "P". Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop.

Antelope Valley College's website: www.avc.edu
To contact the Mathematics, Science, and Engineering Division, please call: 661-722-6300 ext. 6415

BIOL 110 GENERAL MOLECULAR CELL BIOLOGY. **Prerequisite:** Completion of MATH 102, and CHEM 110. *Advisory:* Completion of a general biology course is recommended, and Eligibility for College Level Reading and ENGL 101. (CSU, UC, AVC)

BIOL 120 GENERAL ORGANISMAL, ECOLOGICAL AND EVOLUTIONARY BIOLOGY. **Prerequisite:** Completion of MATH 102. *Advisory:* Completion of a general biology course and/or BIOL 110, and Eligibility for College Level Reading and ENGL 101. (CSU, UC, AVC)

BIOL 201 GENERAL HUMAN ANATOMY **Prerequisite:** Completion of BIOL 100 or 101 or 102 or 110 or 120. *Advisory:* Eligibility for College Level Reading and MATH 070. (CSU, UC, AVC)

BIOL 202 GENERAL HUMAN PHYSIOLOGY. **Prerequisite:** Completion of BIOL 201 and CHEM 101. *Advisory:* Eligibility for College Level Reading, ENGL 101 and MATH 070. (CSU, UC, AVC)

BIOL 204 GENERAL MICROBIOLOGY **Prerequisite:** Completion of BIOL 101 or 110 or 120, and CHEM 101. *Advisory:* Completion of BIOL 201, BIOL 202, CHEM 102, COMM 103 and ENGL 101. (CSU, UC, AVC)

CHEM 110 GENERAL CHEMISTRY **Prerequisite:** Completion of MATH 102. *Advisory:* Completion of CHEM 101 and Eligibility for College Level Reading and ENGL 100A. (CSU, UC, AVC)

CHEM 120 GENERAL CHEMISTRY **Prerequisite:** Completion of CHEM 110 and MATH 140. *Advisory:* Eligibility for College Level Reading and ENGL 101. (CSU, UC, AVC)

Advisory:

A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Prerequisite:

A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).

Corequisite:

A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated requisite.