# AST-Biology for Transfer Degree 24-25 



## ABOUT THIS MAJOR

Biology is the scientific study of life through the observation of structure, function, reproduction, growth, origin, evolution, and behavior of living organisms and their relation to each other and their environment. Biologists have deepened our understanding of processes and interactions on all levels of biological organization from elucidating cellular processes to fight cancer to assessing interactions in communities that might help prevent the extinction of species. Studying biology provides a background for students to evaluate and understand new discoveries and to make informed decisions about the use of scientific knowledge to benefit all living organisms. The Associate of Science in Biology for Transfer (AS-T) prepares student for upper division biology courses, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, evolution, genetics, anatomy, physiology, microbiology, and agricultural sciences. For more information, visit the Mathematics, Sciences, and Engineering division.

## TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

[1] Completion of 60 -semester units
[2] Completion of General Education Requirements
[3] Minimum grade point average of 2.0
[4] AC or better in all courses required for the major
Residency: Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000: http://ccr.oal.ca.gov.

## AST - Biology [Total Units 33]

| Required Courses: (10 units) |  |
| :--- | :---: |
| BIOL110 - General Molecular Cell Biology | 5 |
| BIOL120 - General Organismal, Ecological Evol. Biology | 5 |


| Required Electives A: Complete all of the following (15 units) |  |
| :--- | :---: |
| CHEM110 - General Chemistry | 5 |
| CHEM120 - General Chemistry | 5 |
| MATH150 - Calculus and Analytic Geometry | 5 |


| Choose one of the following groupings: (total 8 units) |  |
| :--- | :---: |
| PHYS101 - Introductory Physics | 8 |
| PHYS102 - Intro Physics $\quad$ OR | 8 |
| PHYS110 - General Physics |  |
| PHYS120 - General Physics |  |



## RECOMMENDED PATHWAY: AST Biology

The Recommended Plan of Study is determined by the discipline faculty. All Program Electives for the Major and General Education Courses are recommended only. Except for ENGL 101, you can make other selections for this area if you choose (See back page for GE options).

- $\left[{ }^{*}\right]=$ Courses will fulfill the completion requirements for Major \& Gen Ed ।
- [\#] recommended courses may select other options.
- Electives are courses that count toward your credits for graduation, but not specific to degree of study.
- IGETC GE transfer pathways: CSU - UC - PRIVATE - OUT OF STATE - OR UNSURE
- CSU GE transfer pathways: CSU ONLY
- IGETC GE PATTERN: 2yrs HS LOTE or IGETC LOTE 101 \& 102 Requirement (UC ONLY)
- Take classes in Summer or Intersession if needed to complete your degree in a timely manner! Fall/Spring: Max 19 units, 12-15 units Recommended.

| TERM 1 |  |  |  |
| :--- | :--- | :---: | :---: |
| CSU Gen-Ed Sequence | IGETC Gen-Ed Sequence | Units |  |
| CSU B1/B3:*CHEM 110 | IGETC5A/5C:*CHEM 110 | $\mathbf{5}$ |  |
| CSU B4: *MATH 150 | IGETC 2: *MATH 150 | $\mathbf{5}$ |  |
| CSU GE A2: ENGL 101 | IGETC 1A : ENGL 101 | $\mathbf{3}$ |  |
| CSU GE E: \#COMM 107 | IGETC 3AH | $\mathbf{3}$ |  |
| Total Units |  |  |  |


| TERM 2 |  |  |
| :--- | :--- | :---: |
| CSU Gen-Ed Sequence | IGETC Gen-Ed Sequence | Units |
| CHEM 120 | IGETC 4: \#POLS 101 | 5 |
| CSU D: \#POLS 101 | IGETC 1B: \#ENGL 103 | 3 |
| CSU A3:\#ENGL 102 | 3 |  |
| \#MATH 160 (Transfer Requirement) |  |  |
| Total Units |  |  |


| TERM 3 |  |  |
| :--- | :--- | :---: |
| CSU Gen-Ed Sequence | IGETC Gen-Ed Sequence | Units |
| CSU GE B2: *BIOL 110 | IGETC 5B: *BIOL 110 | 5 |
| CSU A2: \#COMM 101 | IGETC 1C ( CSU ONLY) | 3 |
| CSU C2: \#HIST 107 | IGETC 3H: \#HIST 110 | 3 |
| PHYS 101 or PHYS 102 | 4 |  |
| Total Units |  |  |


| TERM 4 |  |  |
| :--- | :--- | :---: |
| CSU Gen-Ed Sequence | IGETC Gen-Ed Sequence | Units |
| CSU F | IGETC 7 | 3 |
| CSU D | IGETC 4: | 3 |
| CSU C1 | IGETC 3A | 3 |
| BIOL 120 | 5 |  |
| PHYS 102 or PHYS 120 | Total Units | 17 |
|  |  |  |


| COUNSELING NOTE SECTION |  |  |
| :---: | :---: | :---: |
| Prerequisite: If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade to enroll in the next course. 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. Title 5, Section 55200(d) |  |  |
| AVC 24-25 CATALOG: ACADEMIC POLICIES |  |  |
| INFORMATION and RESOURCES |  |  |
| Tutoring Assistance | Career Center | AVC Student Health Services |
| Transfer Center | Office of Students with Disabilities | Palmdale Center |
| Basic Needs | Financial Aid | Counseling Division |

TRANSFER BEGINS DAY 1

## AST－Biology for Transfer Degree 24－25

TRANSFER OPTION 1 －MIN GPA 3.0 ［CSU－UC－PRIVATE－OUT OF STATE－OR UNSURE］ 24－25 IGETC PLAN
［Intersegmental General Educational Transfer Curriculum］
Completion of all the requirements in the Intersegmental General Education Transfer Curriculum（IGETC）may satisfy lower division general education requirements for students who transfer from Antelope Valley College to a campus in either the California State University or University of California system．The course requirements for all areas must be completed before the IGETC can be certified．
All courses must be completed with grades of＂C＂or better and may not be used in more than one area．Legend：（ ）＝Newly Approved，Effective Fall 2024

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| :---: | :---: | :---: | :---: | :---: |
| AREA 1：ENGLISH COMMUNICATION <br> CSU－ 3 courses required，one from each group 9 semester or 12 quarter units <br> UC -2 courses required，one each from groups $(A)$ and $(B) 6$ semester or 8 quarter units |  |  |  |  |
| 1A |  |  |  | Group A English Composition：ENGL 101，（101H） |
| 1B |  |  |  | Group B Critical Thinking：ENGL 102，（102H）， 103 （103H）；PHIL 201 |
| 1C |  |  |  | Group C Oral Communication（CSU ONLY）：COMM 101，（101H） |

AREA 2：MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
1 course， 3 semester or 4 quarter units

2A $\quad|\quad| \quad$| MATH 110，115，（115H），116，124，128，140，148，150， |
| :---: |
| $(150 \mathrm{H}), 160,220,230,250$ |,

AREA 3：ARTS AND HUMANITIES
3 courses， 9 semester units or 12 quarter units
At lease one course from $3 A$ ，one from the $3 B$ ，and one additional course from either $3 A$ or $3 B$ ARTS：ART 100，101，（101H），102，103，104，106；DA 101；ENGL 235；FTV 101，107，108，201，203；MUS 101，（101H），105；MUSC 102，103，107，108；（109）；THA 101，（101H），110， 225

HUMANITIES：CHIN 102；COMM 114，217；ENGL 221，222， 225，227，230，231，235，242，253，（253H）256，257，259，265，279； FREN 102，201，202，203；FTV 201，203，251；GER 102，201， 202；HIST 101，102，104，105，107，（107H），108，（108H），110， （110H），111，（111H）113，115，119；LATN 102，201；PHIL 105， $(105 H), 106,108,109 ;$ PHOT 107；SPAN 110SS，201，202，203， 210SS，220SS；THA 239，（239H）
AREA 4：SOCIAL AND BEHAVIORAL SCIENCE
2 courses， 6 semester units or 8 quarter units．Courses shall be completed in at least 2 different disciplines．


## AREA 5：PHYSICAL AND BIOLOGICAL SCIENCES

At least 2 courses required， 7 semester units or 9 quarter units
One physical science course and one biological science course；at least one course must include a lab．\＃meets 5 C requirement

A：PHYSICAL SCIENCES：ASTR 101 （101H）；CHEM 101\＃，102\＃， |  |  | A：PHYSICAL SCIENCES：ASTR 101（101H）；CHEM |
| :--- | :--- | :--- | :--- |
| $5 A$ | $\left.\begin{array}{l}\text { 110\＃，120\＃，210\＃，220\＃；ERSC 101\＃；GEOG 101，102；}\end{array}\right]$ |  | GEOL 101，（101H），102；PHYS 101\＃，102\＃，110\＃，120\＃，211\＃；PSCI 101\＃

|  |  |
| :--- | :--- | :--- |
| 5B | $\quad$ B：BIOLOGICAL SCIENCES：ANTH $101(101 \mathrm{H}) ;$ BIOL 101＊\＃，102\＃， |
| 103\＃，104，（104H），110\＃，120\＃，201\＃，202\＃，204\＃，205\＃ |  | ＊\＃Must register for required lab component separately

C：LABORATORY：ANTH 101L；ASTR 101L；BIOL 101L； GEOG 101L，102L；GEOL 101L，102L
AREA 6：LANGUAGE OTHER THAN ENGLISH（UC REQUIREMENT ONLY）
Proficiency equivalent to two years of high school in the same language with a grade of＂C＂ OR earn a score of 3 or higher on the AP Foreign Language test，OR 550 on the College Board Achievement Test in Foreign Language OR complete one of the foreign language courses listed below．

CHIN 102，201，202；DFST 102，201，202；FREN 102，201，202， 203；GER 102，201，202；LATN 102，201； SPAN 102，201，202，203，110SS，210SS，220SS

AREA 7：ETHNIC STUDIES1 course， 3 semester or 4 quarter units
＊Reduction of units in Area 4 and inclusion of Area 7 take effect for students matriculating at a California community college beginning in Fall 2023

| 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| CSU GRADUATION REQUIREMENT IN U．S．HISTORY，CONSTITUTION，AND AMERICAN IDEALS |  |  |  |

（Not part of IGETC，may be completed prior to transfer）． 2 courses， 6 semester units or 8 quarter units．May also apply to Area 3B \＆ 4.

HIST 107 \＆POLS 101；HIST 108 \＆POLS 101；HIST 110 \＆POLS 101；HIST 111 \＆POLS 101

# TRANSFER OPTION 2 －MIN GPA 2.0 



