



# AST-Chemistry for Transfer Degree 19-20

## Recommended Program Sequence

All courses with a + sign indicate a pre-requisite or co-requisite

| Term 1 (Semester: Maximum 19 units, 15 units recommended)                     | Units        | Term 5 (Semester: Maximum 19 units, 15 units recommended)   | Units     |
|---|--------------|---|-----------|
| CSU GE Area B1&3. *CHEM 110+, General Chem. 5A&C IGETC                        | 5            | <b>CHEM 210+, Organic Chemistry</b>   | 4         |
| CSU GE B4 *MATH 140+, Pre-Cal. (or as placed) Area 2 IGETC                    | 4            | <b>PHYS 120+, General Physics</b>   | 4         |
| CSU GE Area A2 (English 101+) Area 1a IGETC                                   | 3            | <b>MATH 160+, Calculus &amp; Analytic Geometry</b>  | 4         |
| CSU GE Area E (CSU Only) or Area 3 Humanities IGETC                           | 3            | CSU GE C2 LOTE 101 (UC only) (Any Term) **IGETC   | 5         |
| <b>Total</b>  | <b>15</b>    | IGETC LOTE 102** (UC only) required w/out 2 yrs of H.S Foreign Language   | <b>17</b> |
| Term 2: (Interession(6/3)-Summer (9/6) Max./Recommended units)                |              | Term 6: (Interession(6/3)-Summer (9/6) Max./Recommended units)  |           |
| Term 3 (Semester: Maximum 19 units, 15 units recommended)                     | Units        | Term 7 (Semester: Maximum 19 units, 15 units recommended)   | Units     |
| <b>CHEM 120, General Chemistry</b>  | 5            | <b>CHEM 220+, Organic Chemistry</b>   | 4         |
| <b>MATH 150+, Calculus &amp; Analytic Geometry: Elec. (Transfer required)</b> | 5            | CSU Area D2 POLS 101 Area 4 IGETC   | 3         |
| <b>PHYS 110+, General Physics</b>   | 4            | CSU Area D2 HIST 107 or 108 or 110 or 111 Area 4 IGETC  | 3         |
| CSU GE Area A1 Area 1c (CSU only) or Area 3 A/H IGETC                         | 3            | CSU GE C1/C2 LOTE 102 (UC only) (Any Term) **IGETC  | 5         |
| CSU GE Area A3 Area 1b IGETC  | 3            | CSU GE B2 (Life/Biological Science) (Lab may be optional) 5B IGETC  | 3         |
| *Satisfies CSU Gen. Ed. or IGETC  | <b>Total</b> | CSU B3 & IGETC 5C must correspond with a Science Lecture  | <b>18</b> |
| Term 4: (Interession(6/3)-Summer (9/6) Max./Recommended units)                |              | <b>Transfer or Graduate</b>   |           |
| CSU GE Area C1 Area 3Arts IGETC   | 3            | *This degree may only be earned by completing the Intersegmental General Education Transfer Curriculum (IGETC) for STEM <i>or</i> the California State University General Education – Breadth Requirements for STEM. Please consult a counselor for additional information. |           |
| CSU Area D2 Area 4 IGETC  | 3            |   |           |
| <b>Total</b>  | <b>6</b>     |   |           |

Take Summer or Interession classes if needed to complete the program in a timely manner.

The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call.

| Required Courses:                          |           |
|--|-----------|
| *CHEM 110+, General Chemistry              | 5         |
| CHEM 120+, General Chemistry               | 5         |
| CHEM 210+, Organic Chemistry               | 4         |
| CHEM 220+, Organic Chemistry               | 4         |
| *MATH 150+, Calculus and Analytic Geometry | 5         |
| MATH 160+, Calculus & Analytic Geometry    | 4         |
| PHYS 110+, General Physics                 | 8         |
| PHYS 120+, General Physics                 | 4         |
| <b>Units Required for Major:</b>           | <b>35</b> |

other requirements for degree

|  |       |
|--|-------|
| CSU GE Breath (39 min.) or IGETC (34 min.) Pattern     | 34-39 |
| CSU Transferrable Elective Units to reach Degree Total | 0     |

**Minimum Units Required 60**

\*Courses denoted with an asterisk will fulfill the completion requirements for both the major and general education.

**General Education Requirements:** Complete either the CSU Breath Requirements or IGETC.

\*\*LOTE: Language Other than English

**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 "CSU" at the end of a course description can be used as an elective for a CSU transfer and a "UC" designation for a UC school.

Policies in the back page.....

For an educational plan, please consult with a counselor. To obtain counseling services please call: (661) 722-6338. Antelope Valley College's website: www.avc.edu.

To contact the Mathematics, Science, and Engineering Division, please call: 661-722-6300 ext. 6415

## AST-Chemistry for Transfer Degree 19-20 Recommended Program Sequence

The Associate in Science in Chemistry for Transfer (AS-T in Chemistry) degree offers students a fundamental knowledge of chemistry and its relation to science, technology, and engineering. Students will enhance their problem solving and critical thinking skills by employing scientific principles. The Associate in Science in Chemistry for Transfer (AS-T in Chemistry) degree meets the requirements of SB 1440 for Associate Degrees for Transfer (ADT). These degrees are intended to make it easier for students to transfer to California State University campuses, but do not exclude admittance to other colleges or universities.

To earn an Associate in Science in Chemistry for Transfer (AS-T in Chemistry) degree a student must complete the following:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

- (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
- (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.

**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 corequisite.

**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.

• **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>.

**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 or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: [www.assist.org](http://www.assist.org)

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.