



Fresno City College

ENVIRONMENTAL SCIENCE
Associate in Science for Transfer
2024-2025

Name: _____

ID: _____

Date: _____

Counselor Contact: _____

Major Requirements: 42 units

A grade of "C" or better is required in the following courses

ASSOCIATE IN SCIENCE FOR TRANSFER (F.8152.AS-T)	C-ID	Units	Completed	In Progress	Planned
Required Core:					
GEOL 1, Physical Geology	GEOL 101	4			
GEOL 12, Environmental Science	ENVS 100	3			
ECON 40, Introduction to Microeconomics	ECON 201	3			
MATH 5A, Mathematical Analysis I	MATH 210	5			
MATH 11, Elementary Statistics	MATH 110	4			
Complete ONE of the following Biology and Chemistry sequences options below:					
OPTION 1: BIOL 11A, Biology for Science Majors I AND BIOL 11B, Biology for Science Majors II AND CHEM 1A, General Chemistry I	BIOL 190 BIOL 140 CHEM 110				
OPTION 2: BIOL 11A, Biology for Science Majors I AND CHEM 1A, General Chemistry I AND CHEM 1B, General Chemistry II	BIOL 190 CHEM 120S				
Select a Physics sequence:					
PHYS 2A, General Physics 1 AND PHYS 2B, General Physics 2	PHYS 105 PHYS 110	8			
OR PHYS 4A, Physics for Scientist and Engineers AND PHYS 4B, Physics for Scientist and Engineers	PHYS 205 PHYS 210	8			

NOTES:

1. An Associate in Science in Environmental Science for Transfer is designed for students who are interested in a interdisciplinary approach to the natural sciences with an emphasis on biology, chemistry, and geology.
2. Additional recommended courses (not part of degree): GEOL 12L (Environmental Science Lab) and Chem 1B (General Chemistry II) depending on the requirements of the university for major preparation. See a counselor for more information.
3. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
4. The *Associate Degree for Transfer* requires completion of the major (42 units) with a "C" or better grade in each course plus the completion of the General Education requirements (IGETC for STEM) for a total of 60 semester units minimum with a 2.0 or better GPA



2024-25 FRESNO CITY COLLEGE

STEM-Intersegmental General Education Transfer Curriculum (IGETC)

(F.5020.CA IGETC Breadth/CSU)

(F.5030.CA IGETC Breadth/UC)

All courses must be completed with grades of "C" (2.0) or better.

Area Completed
Completed
In Progress
Needed

DISCLAIMER: EVERY EFFORT HAS BEEN MADE TO ENSURE THE MATERIAL IN THIS PUBLICATION IS ACCURATE. HOWEVER, THIS INFORMATION IS USED AS AN ADVISING TOOL AND SHOULD BE CHECKED AGAINST THE OFFICIAL INFORMATION FOUND IN THE ASSIST WEBSITE BY VISITING WWW.ASSIST.ORG. THE IGETC IS NOT AN ADMISSION REQUIREMENT FOR THE CSU OR UC NOR DOES COMPLETION OF THE IGETC GUARANTEE ADMISSION TO THE CAMPUS OR PROGRAM OF CHOICE. PLEASE SEE A COUNSELOR TO MAKE SURE THAT THE IGETC IS APPROPRIATE FOR YOUR USE.

AREA 1 – ENGLISH COMPOSITION
 CSU: 3 courses required, one each from Group A, B, and C listed below (9 semester units minimum or 12-15 quarter units)
 UC: 2 courses required, one each from Group A and B listed below (6 semester units minimum or 8-10 quarter units)

Group A – English Composition (3 semester units minimum): ENGL 1A/1AH				
Group B – Critical Thinking – English Composition (3 semester units minimum): ENGL 3/3H, PHIL 2/2H				
Group C – Oral Communication (CSU and ADT REQUIREMENT ONLY) (3 semester units minimum): COMM 1, 4, 8/8H, 25				

AREA 2 – MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
 1 course required (3 semester units minimum or 4-5 quarter units)

CSCI 26; DS 21, 23; MATH 3A, 4B, 5A, 5B, 6, 10A, 10B, 11/11H, 17 21, 26, MATH/PSY 42

AREA 3 – ARTS AND HUMANITIES
 At least 3 courses, with at least one from Group A: Arts and one from Group B: Humanities (9 semester units minimum or 12-15 quarter units)

A. ARTS: AFRAM 3, 8, 15; AMIND 35; ARCH 15A, 15B; ART 2, 5/5H, 6/6H, 50, 60, 70; ART/ASAMER 55; CLS 20, 22; DANCE 30; FILM 6; MUS 3*, 12, 13, 15, 16, 17; TA 30, 31, 32

B. HUMANITIES: AFRAM/ENGL 17; ARMEN 2* (Phase out Fall 2026); ASAMER 8; ASL 2* (Phase out Fall 2026), 3*, 4*, 5, 7, 8; CHIN 2*; CLS 21; ENGL 1B, 12, 14, 40, 44A, 44B, 45, 46A, 46B, 47, 48A, 48B; ENGL/HUMAN 42; ENGL/WSTS 36; FILM 1, 2A, 2B, 3; FRENCH 2* 3*; GERMAN 2; HIST 1, 2; HMONG 2*; HUMAN 10, 11; JAPAN 2*; LING 10; PHIL 1A/1AH, 1B, 1C/1CH, 3A, 3B; PORT 2*; SPAN 2*, 2NS, 3* or 3NS*, 4* or 4NS*, 5, 6, 7*, 41

ARTS OR HUMANITIES: Complete an additional course from Area 3, Arts or Humanities. *EXEMPT FOR STEM

AREA 4 – SOCIAL AND BEHAVIORAL SCIENCES
 1 course required (3 semester units minimum or 4-5 quarter units) *FOR STEM ONLY*

AFRAM 1; AMIND 31; ANTHRO 12; ASAMER 1, 10, 15, 25; CLS 11, 12A, 12B, 24, 33; ETHNST 10; GLST 1, 2; HIST 20, 22, 23; POLSCI 2/2H; WSTS 24, 22; (A.) ANTHRO 2/2H, 3, 4, 8; (B.) ECON 40/40H, 50/50H; (C.) AMIND 34; HIST/AFRAM 34; JOURN 16; (D.) JOURN 16; WSTS 10, 47; (E.) GEOG 2, 4A, 4B, 6, 20; (F.) AFRAM 4; HIST 3, 11, 12/12H, 15, 17, 18, 21, 25, 26, 30, 35; HIST/AFRAM 34; HIST/CLS 29; (G.) CHDEV 30; JOURN 1; PSY/CHDEV 39; (H.) ETHNST 11; POLSCI 1, 2/2H, 3, 5, 17, 24; (I.) PSY 2/2H, PSY/CHDEV 38, PSY/CHDEV 39; (J.) SOC 1A/1AH, 1B, 2, 32, SOC/HS 10

AREA 5 – PHYSICAL AND BIOLOGICAL SCIENCES
 At least 2 courses, one course from Group A: Physical Science and one course from Group B: Biological Science; at least one must include a laboratory, indicated by (L) (7-9 semester units minimum or 9-12 quarter units)

A. PHYSICAL SCIENCES: ASTRO 10(L); CHEM 1A(L), 1B(L), 3A(L), 8A, 28A, 28B; GEOG 1(L), 8(L); GEOL 1(L), 2(L), 4, 5, 9(L) 12; NATSCI 1A(L); PHYS 2A(L), 2B(L), 4A(L), 4B(L), 4C(L); PHYSC 11

B. BIOLOGICAL SCIENCES: ANTHRO 1; BIOL 3(L), 5(L), 7(L), 11A(L), 11B(L), 14, 15(L), 16(L) 20(L), 21A(L), 21B(L), 22(L), 31(L), 55

C. Have you completed at least one lab course in Area 5? OR one of the following: ANTHRO 1L; CHEM 29A(L), 29B(L) Yes No

AREA 6A – LANGUAGE OTHER THAN ENGLISH - (U.C. Requirement only) Students transferring to the UC are required to demonstrate competencies (proficiency) in a language other than English equivalent to 2 years of high school study by meeting one of the following below:

- Completion of one course (4-5 semester units) at a college level, that is considered equivalent to 2 years of high school language, with a grade of "C" or better; **OR**
- Completion of two years of high school course work (U.S High School or high school in country where language of instruction is English) in one language other than English with a grade of "C" or better (official transcript required); **OR**
- Completion of two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English (documentation required); **OR**
- Satisfactory score on the College Board Subject Test (formerly SAT II) in a language other than English (see a counselor for required scores); **OR**
- Score of 3 or better on the College Board Advanced Placement Examination in a language other than English; **OR**
- Score of 5 or better on the International Baccalaureate Higher Level Examination in a language other than English; **OR**
- Satisfactory completion of a proficiency test administered by a community college or university in a language other than English (Documentation required).

Proficiency met by completing one of the following:
 _____ ARMEN 1, ASL 1, CHIN 1, FRENCH 1, GERMAN 1, HMONG 1, JAPAN 1, PORT 1, SPAN 1 or higher
 (Note: Courses above proficiency level may be used to meet this requirement and may also be used to clear if listed in another IGETC area)

AREA 7 – ETHNIC STUDIES
 1 course required (3 lower division semester units minimum or 4-5 quarter units)

AFRAM 1; AMIND 31; ASAMER 15, 25; CLS 11, 12A, 12B, CLS/WSTS 24, CLS 33; ETHNST 10

US HISTORY, CONSTITUTION & AMERICAN IDEALS - (CSU Requirement only) Students satisfy this CSU graduation requirement through coursework in three areas, Group 1, 2, and 3. NOTE: This requirement is NOT part of IGETC, but it may be completed prior to transfer. At the CSU campus discretion, courses used to meet this requirement might double count for certain areas— see a counselor.

Group 1: HIST 11 or 12/12H				
Group 2: POLSCI 2/2H				
Group 3: POLSCI 2/2H, 6				

IGETC ADVISING NOTES:

1. Full or Partial IGETC certification of coursework is certified by the last California community college attended for a regular (fall or spring) semester prior to transfer. Students should request certification at the time when final transcripts are sent to the transfer institution. Partial certification is defined as completing all but two (2) courses on the IGETC pattern. **Warning:** Students need Area 1 and Area 2 completed to meet minimum transfer admission requirements.
2. + = Transfer credit is limited by either UC or CSU or both. Please consult with a counselor.
* = Courses listed in multiple areas shall not be certified in more than one area except for courses in Languages Other Than English, which can be certified in both areas 3B and 6.
3. **Advanced Placement credit** - exam scores of 3, 4, or 5 can be used to meet IGETC subject areas and English Composition, but not Critical Thinking. Contact individual UC campus for application of advanced placement credit toward major requirements.

GENERAL IGETC INFORMATION

- a. The IGETC is a general education program that California Community College students can use to fulfill lower division (freshman-sophomore) general education requirements for any CSU or UC campus and many California private colleges/universities.
- b. Many students attend multiple California Community College campuses. If that's you, be sure to follow the IGETC at each college of attendance. IGETC policy states that IGETC coursework completed in a specific subject area will be used in the area designated by the California Community College at which the course was completed. This is also the policy if you complete courses at more than one of the SCCC campuses. You must follow the IGETC of each campus you attend.
- c. For IGETC to be certified, all courses must be completed with a "C" or better.
- d. A grade of "CR" (credit) or "P" (pass) may be used if the grading policy of the community college states that "CR" or "P" is equivalent to a grade of "C" or better. The UC will allow no more than 14 semester units taken CR/P toward UC eligibility or IGETC. The CSU campuses vary on the number of units they allow. Please check each college's catalog or see a counselor for more information.
- e. Courses may be used only once to satisfy one subject area even if they are listed in more than one subject area.

CAMPUS SPECIFIC IGETC INFORMATION

The following list specifies the various majors, by campuses that have substantial lower division prerequisites. The most up-to-date information regarding the acceptance of IGETC at specific colleges in each UC is available online at <http://admission.universityofcalifornia.edu/>

- 1) **UC BERKELEY: College of Letters and Science:** Either IGETC or the college's requirements (Reading and Composition, Quantitative Reasoning, and Language Other than English) are acceptable. **Colleges of Engineering and Chemistry:** In general, IGETC is not appropriate. **College of Natural Resources:** IGETC is acceptable; however specific lower division major requirements must still be satisfied. **College of Environmental Design:** IGETC is acceptable with full certification to fulfill CED's breadth requirements. Partial certification will not complete the requirements. **Haas School of Business:** IGETC is not accepted.
- 2) **UC DAVIS:** All undergraduate colleges accept IGETC. However, Bachelor of Science degrees and high- unit majors often have many courses for lower-division preparation; in these cases, IGETC is not recommended and the UC Davis general education pattern is the better choice.
- 3) **UC IRVINE:** All schools accept IGETC. However, selection by the campus is based on demonstrated academic achievement and preparation for the intended major.
- 4) **UC LOS ANGELES:** IGETC is acceptable in all schools except **The Henry Samueli School of Engineering and Applied Science:** IGETC is not accepted.
- 5) **UC MERCED: School of Engineering:** IGETC is strongly discouraged but accepted as students are encouraged to focus on lower-division major preparation prior to transfer. **School of Natural Sciences:** IGETC is not recommended but accepted as students are encouraged to focus on lower-division major preparation prior to transfer. **School of Social Sciences, Humanities, and Arts:** IGETC is recommended and students are encouraged to complete as much lower-division major preparation as possible prior to transfer.
- 6) **UC RIVERSIDE: College of Humanities, Arts and Social Sciences:** IGETC is recommended. **College of Natural and Agricultural Sciences:** IGETC is not accepted. **The Marlan and Rosemary Bourns College of Engineering:** IGETC is acceptable; some additional coursework may be required after enrollment. **School of Business Administration (SOBA):** IGETC is required
- 7) **UC SAN DIEGO: John Muir, Earl Warren, Thurgood Marshall and Sixth Colleges:** IGETC is acceptable. **Eleanor Roosevelt and Revelle Colleges:** IGETC is acceptable; however some additional coursework may be required after enrollment.
- 8) **UC SANTA BARBARA: College of Letters and Science:** IGETC is acceptable. **College of Creative Studies:** IGETC is acceptable. **College of Engineering:** Students are encouraged to focus on major preparation rather than general education, but may use IGETC to substitute for most general education requirements. However, some additional coursework may be required after enrollment to complete the depth requirement if not satisfied during IGETC certification.
- 9) **UC SANTA CRUZ:** For majors in the physical and biological sciences or **the Jack Baskin School of Engineering:** IGETC is not recommended. Students should ensure completion of lower-division courses for their intended major, as indicated in the UCSC Catalog and on ASSIST.org.

OTHER UC INFORMATION

The UC TAP tool is designed for use by students transferring from California community colleges, including those students who are seeking a Transfer Admission Guarantee (TAG) with one of the six participating UC campuses. Students can use the Transfer Admission Planner to enter their coursework (completed and planned) from the very beginning of their college careers, or at any point when they decide to transfer to a UC campus. To access TAP visit: <https://uctap.universityofcalifornia.edu/students/index.cfm>

Six UC campuses offer the Transfer Admission Guarantee (TAG) program for California community college students who meet specific requirements. By participating in TAG, students will receive early review of your academic records, early admission notification and specific guidance about major preparation and general education coursework. Keep in mind: TAG applications are due Sept. 30, but you can only apply for a TAG at one campus. To keep your options open, apply to other UC campuses during the regular application cycle (Oct 1st through Nov 30th). To access TAG visit:

<https://uctap.universityofcalifornia.edu/students/index.cfm>