

Liberal Arts & Science: Math & Science Emphasis (IGETC-UC GE Track)

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

Program Description: The Liberal Arts and Sciences major is designed for students planning to transfer to either the California State University or University of California. To earn the Associate in Arts degree with a Liberal Arts and Sciences major, students must complete either the Intersegmental General Education Transfer Curriculum (IGETC) UC or CSU option or the CSU General Education Certification pattern and one of the three areas of emphasis. The areas of emphasis are: Mathematics and Science, Social and Behavioral Sciences, Health Sciences, or Humanities. The area of emphasis requires a minimum of 18 units with a grade of "C" or better in all courses in the area of emphasis. The courses identified for each area of emphasis fulfill major preparation requirements as demonstrated through ASSIST.org articulation. A minimum of six units must be within a single discipline and in the case of the Mathematics and Science area of emphasis at least one mathematics course must be completed. Select courses based on ASSIST.org data for major preparation articulation with selected transfer institutions. Consult a counselor for specific information regarding the intended major at the college the student is choosing. Courses used to complete a student's area of emphasis can double count for general education just as they may for any other major. Although the associate degree recognizes the completion of lower division general education requirements, it does not guarantee admission to a specific campus in the CSU or UC system, nor does it guarantee admission to a specific major. Some majors and schools require a higher GPA than is necessary for the associate degree. Students should meet with a counselor to determine the lower division major preparation needed for their intended transfer school.

To meet requirements for the IGETC-UC associate degree program, students must: Complete IGETC-UC Certification pattern. Meet the American Institutions and Diversity requirements. Consult with the Counseling Office for the appropriate list of applicable courses. Earn a "C" or "CR" grade or higher in all IGETC courses. Complete a minimum of 60 degree applicable UC transferable semester units. Earn a cumulative G.P.A. of 2.0 in all college coursework completed. Meet College of the Canyons residency requirements for graduation. **Note:** No Physical Education and/or Wellness courses are required.

Program SLO: Students will be able to analyze concepts from the liberal arts and sciences.

Important Transfer Information: The sequence listed below, may not meet all your transfer admissions requirements. Connect with a counselor to develop an individual student education plan through the Counseling Department @ <https://www.canyons.edu/counseling> or (661) 362-3288/(661) 362-3822.

Major courses are sequenced and **BOLDED** based on recommendations by the [Counseling Department](#). This pathway is mapped with the assumption that placement into Math 211-Calculus 1, has occurred. If not, please begin at your math placement level, which might be Math 102 (with or without Math 092) (FA, WI, SP, SU) and 104 (FA, SP, SU).

First Semester (3-14 units minimum)		FA=Fall; WI=Winter; SP=Spring; SU=Summer	
Course	Title	Units	Major and GE Courses
Group 1 Class (dept recommends Math 211, if eligible)	Calculus I (FA, SP, SU) or choose one course from Group 1, listed below (FA, WI, SP, SU)	5-4	Major Course – (dept recommends MATH 211 and counts toward Area 2)
Group 1 Class	Choose one course from Group 1, listed below (FA, WI, SP, SU)	3-4	Major Course & Area 5A or 5B (possibly 5C if lab is included)
English 101/ 101H	English Composition (FA, WI, SP, SU)	4	Area 1A
*Social Science	Choose one course from IGETC GE Area 4 (FA, WI, SP, SU)	3	Area 4 and *Diversity possibly (check with a Counselor)
Term Totals:		14-16	

Check the Honors website for most recent course offerings. Must be enrolled in the Honors program to take courses, see below.
Courses with an () next to them will double-count toward the Diversity GE Requirement (talk with Counseling).

Second Semester (15-26 units minimum)			
Course	Title	Units	Major and GE Courses
Group 1 Class	Choose one course from Group 1, listed below (FA, WI, SP, SU)	3-5	Major Course & Area 5A, 5B (possibly 5C if lab is included), or 2
Group 1 Class	Choose one course from Group 1, listed below (FA, WI, SP, SU)	3-5	Major Course & Area 5A, 5B (possibly 5C if lab is included), or 2
^Critical Thinking	Choose one course from the IGETC GE Area 1B category (FA, WI, SP, SU)	3	Area 1B
Arts Course	Choose one course from the IGETC GE Area 3A category (FA, WI, SP, SU)	3	Area 3A
		Term Totals:	12-16

^Some UC's will require a second semester of English Composition.

Interession (27-29 units minimum)			
Course	Title	Units	Major and GE Courses
COMS 105/105H	Fundamentals of Public Speaking (FA, WI, SP, SU)	3	Area 1C
		Term Totals:	3

Third Semester (30-45 units minimum)			
Course	Title	Units	Major and GE Courses
Group 1 Class	Choose one course from Group 1, listed below (FA, WI, SP, SU) –Consider it being Calculus 1, if it hasn't been taken yet, since it's required for this degree	4-5	Major Course & Area 5A, 5B (possibly 5C if lab is included), or 2
*Social Science	Choose one course from IGETC GE Area 4 (FA, WI, SP, SU)	3	Area 4 and *Diversity possibly (check with a Counselor)
*American Institutions – Choose Option I or II	Complete first course in chosen option – (note: must take both classes within one option) (FA, WI, SP, SU)	3	American Institutions, Area 3B, and *Diversity possibly (check with a Counselor)
Foreign Language	Choose any course from IGETC GE Area 6 (FA, WI, SP, SU)	4-5	Area 6 (check with a Counselor if you already have AP credit for language or 2 years HS credit)
UC Elective	Choose any course that is UC transferable (FA, WI, SP, SU)	2-3	Elective
		Term Totals:	16-18+

Fourth Semester (46-61 units minimum) -may not need all UC elective units if you have already reached 60 UC applicable units, have all of IGETC completed, and major requirements met.			
Course	Title	Units	Major and GE Courses
Group 1 Class	Choose one course from Group 1, listed below (FA, WI, SP, SU)	4-5	Major Course & Area 5A, 5B (possibly 5C if lab is included), or 2
American Institutions Choose Option I or II	Complete second course in chosen option – (note: must take both classes within one option) (FA, WI, SP, SU)	3	American Institutions and Area 4
Arts or Humanities Course	Choose one course from either IGETC GE Area 3A or 3B (FA, WI, SP, SU)	3	Area 3A or 3B
UC Elective	Choose any course that is UC transferable (FA, WI, SP, SU)	3	Elective
UC Elective	Choose any course that is UC transferable (FA, WI, SP, SU)	3	Elective
		Term Totals:	16-17

Total Units: 61+

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Note: Foreign language is required as part of the transfer general education breadth. Please see the Counseling Office for additional information.

Group 1: Select 6 units from a single discipline and at least one mathematics course (must take 18 units minimum)

BIOSCI 106/106H	Organismal & Environmental Biology (FA, SP, SU)	4
BIOSCI 107/107H	Molecular & Cellular Biology (FA, SP, SU)	4
BIOSCI 115	General Zoology (FA)	4
BIOSCI 116	General Botany (SP)	4
CHEM 151/151H	Preparatory General Chemistry (FA, WI, SP, SU)	4
CHEM 201/201H	General Chemistry I (FA, WI, SP, SU)	5
CHEM 202	General Chemistry II (FA, SP, SU)	5
CHEM 255	Organic Chemistry I (FA, SP)	5
CHEM 256	Organic Chemistry II (FA, SP)	5
GEOGRAPH 100/100H	Physical Geography (FA, WI, SP, SU)	3
GEOGRAPH 101	Physical Geography Lab (FA, WI, SP, SU)	4
GEOGRAPH 101L	Physical Geography Lab (FA, WI, SP, SU) <i>-must be taken with GEOGRAPH 100</i>	1
GEOLOGY 100	Physical Geology (FA, WI, SP, SU)	3
GEOLOGY 101	Physical Geology with Lab (FA, WI, SP, SU)	4
GEOLOGY 101L	Physical Geology Lab (FA, WI, SP, SU) <i>-must be taken with GEOLOGY 100</i>	1
MATH 211	Calculus I (FA, SP, SU)	5
MATH 212	Calculus II (FA, SP, SU)	5
MATH 213	Calculus III (FA, SP, SU)	5
MATH 214	Linear Algebra (FA, SP, SU)	4
MATH 215	Differential Equations (FA, SP, SU)	4
PHYSIC 110	General Physics I (FA, SP, SU)	4
PHYSIC 111	General Physics II (FA, SP, SU)	4
PHYSIC 220	Physics for Scientists and Engineers: Mechanics of Solids and Fluids (FA, SP, SU)	4
PHYSIC 221	Physics for Scientists and Engineers: Electricity and Magnetism (FA, SP, SU)	4
PHYSIC 222	Physics for Scientists and Engineers: Wave Motion, Heat, Optics, and Modern Physics (FA, SP)	4

American Institutions Requirement – Select one of the options below and complete a total of 6 units

Option 1	One course from the following: Economics 170/170H, History 111/111H, History 112/112H, History 120*/120H*, or History 130* AND Political Science 150/150H (FA, WI, SP, SU)
Option 2	History 111/111H AND History 112/112H (FA, WI, SP, SU)

Counseling Resources

Counseling Department: www.canyons.edu/counseling

UC General Education Guide:

<https://www.canyons.edu/resources/documents/student-services/counseling/degrees/IGETC20192020.pdf>

CSU/UC Articulation Agreements: www.assist.org

University of California: www.universityofcalifornia.edu

COC Honors Program: <https://www.canyons.edu/academics/honors/index.php>

MESA Program: www.canyons.edu/mesa

Career Resources

California Career Zone: www.californiacareerzone.com

O*Net Online: www.onetonline.com

Bureau of Labor and Statistics: www.bls.gov