# University of California
## Options for Satisfying UC's “A-G” Subject Requirements for Freshman Applicants

<table>
<thead>
<tr>
<th>Subject Requirement</th>
<th>UC-Approved High School Courses</th>
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</tr>
</thead>
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| **History/Social Science (“a”)** | 2 years required:  
Two years of history/social science, including:  
One year of world history, world cultures and/or world geography (may be a single year-long course or two one-semester courses), and  
One year of U.S. history or one-half year of U.S. history and one-half year of civics or American government | SAT Subject Exam:  
World History: Score of 540 satisfies one year of the requirement.  
U.S. History: Score of 550 satisfies one year of the requirement. | World History/Cultures/Geography:  
AP Exam in European History, World History or Human Geography; or  
IB HL History or Geography each satisfies one year of the requirement.  
U.S. History:  
AP U.S. History or  
IB HL2 History of the Americas each satisfies one year of the requirement.  
U.S. Government:  
AP Government & Politics: U.S. or Comparative satisfies a one-half year of the requirement. | World History/Cultures/Geography: Grade of C or better in a UC-transferrable course in world history, world cultures and/or world geography satisfies one year of the requirement.  
U.S. History: Grade of C or better in a UC-transferrable course satisfies one year of the requirement.  
American Government or Civics: Grade of C or better in a UC-transferrable course satisfies one-half year of the requirement. |
| **English- Language of Instruction in Composition & Literature (“b”)** | 4 years required:  
Four years of English composition and literature required, integrating: extensive reading of classic and modern literature; frequent writing, from brainstorming to final paper, and practice listening and speaking with different audiences.  
No more than one year of an ESL/ELD course can be used to meet the first three years of this requirement. | ACT combined English/Writing section: Score of 24 satisfies the first three years; Score of 30 satisfies the entire four-year requirement.  
SAT Reasoning Exam Writing section: Score of 560 satisfies first three years; Score of 680 satisfies entire four-year requirement.  
SAT Subject Exam in Literature: Score of 560 satisfies first three years. | AP English Language and Composition or AP English Literature and Composition each satisfies all four years of the requirement.  
IB HL English: Literature (formerly IB Language A1 English) satisfies all four years of the requirement. | A grade of C or better in a UC-transferrable or non-transferrable English composition, literature (American or English) or foreign literature in translation satisfies one of the first three years of the requirement.  
A course used to satisfy the fourth year and/or the entire requirement must be UC-transferrable.  
Literature courses must include substantial work in composition. |
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<td>Mathematics (&quot;c&quot;)</td>
<td>3 years required, 4 years recommended: Three years of college-preparatory math including or integrating the topics covered in elementary and advanced algebra and two- and three-dimensional geometry. Math courses completed in the 7th and/or 8th grade and approved integrated math courses may be used to satisfy part or this entire requirement.</td>
<td>SAT Subject Exams: Math Level 1: Score of 570 satisfies the entire three-year requirement. Math Level 2: Score of 480 satisfies the entire three-year requirement. NOTE: Effective for fall 2015 applicants, all students must complete a Geometry course; SAT Math exam will not satisfy a year of Geometry.</td>
<td>AP Statistics satisfies elementary and intermediate algebra (not Geometry) AP Calculus AB or AP Calculus BC satisfies three years of the requirement. IB HL Mathematics satisfies three years of the requirement. NOTE: Effective for fall 2015 applicants, all students must complete a Geometry course; neither AP Calculus AB/BC nor IB HL Mathematics exam will satisfy a year of Geometry.</td>
<td>Grade of C or better in a non UC-transferrable course in Elementary Algebra, Geometry, or intermediate/advanced Algebra each satisfies one year of the requirement. Grade of C or better in a UC-transferrable course that has intermediate algebra as a prerequisite satisfies the entire 3 year requirement, as does a nontransferrable course in trigonometry. The entire requirement cannot be satisfied with statistics. Note: Effective for fall 2015 applicants, all students must complete a Geometry course; one transferrable college course will not satisfy the full three year math requirement.</td>
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<td>Laboratory Science (&quot;d&quot;)</td>
<td>2 years required, 3 years recommended: Two years of laboratory science providing fundamental knowledge in two of the following: biology, chemistry and physics. The final two years of an approved three-year integrated science program that provides rigorous coverage of at least two of the three foundational subjects can also satisfy this requirement.</td>
<td>SAT Subject Tests: Score of 540 in Biology (Ecological or Molecular) Score of 530 in Chemistry Score of 530 in Physics (Electrical &amp; Magnetic/Mechanical) Scores listed above each satisfy one year of the requirement.</td>
<td>Any two AP Exams in Biology, Chemistry, Physics (B or C: Electricity &amp; Magnetism or C: Mechanics), and Environmental Science satisfies the entire requirement. Any two IB HL exams in Biology, Chemistry, or Physics satisfies the entire requirement.</td>
<td>For each year of the requirement, a grade of C or better in a UC-transferrable in biology, chemistry or physics with at least 30 hours of laboratory work (not “demonstration”).</td>
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| Language Other Than English – (“e”) (Non-language of instruction/ foreign language) | 2 years required, 3 years recommended:  
Two years of the same language other than English. Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition and culture.  
American Sign Language and classical languages, such as Latin and Greek, are acceptable. | SAT Subject Tests:  
Score of 520 in Chinese With Listening  
Score of 540 in French/French With Listening  
Score of 510 in German/German With Listening  
Score of 520 in Italian  
Score of 510 in Japanese With Listening  
Score of 500 in Korean With Listening  
Score of 530 in Latin  
Score of 470 in Modern Hebrew  
Score of 520 in Spanish/Spanish With Listening  
Scores listed above satisfy the entire requirement. | AP Language & Cultures Exam in Chinese, French, German, Italian, Japanese, or Spanish; or Spanish Literature & Cultures, or Latin  
or  
Any IB HL Language B (formerly A2) exam satisfies the entire requirement. | Grade of C or better in any UC-transferrable course(s) (excluding conversation) equivalent to two years of high school language instruction. |
| Visual and Performing Arts (“f”) | 1 year required:  
One yearlong course of visual and performing arts chosen from the following: dance, drama/theater, music or visual art | No SAT Subject exam satisfies this requirement. | AP Art History, Studio Art (2-D, 3-D, or Drawing) or Music Theory each satisfies the one-year requirement. | Grade of C or better in any UC-transferrable course that clearly falls within one of four visual/performing arts disciplines: dance, drama/ theater, music or visual art |
| Additional College-Preparatory Elective (“g”) | 1 year required:  
One year (two semesters), in addition to those required in “a-f” areas above, or  
One year (two semesters) approved in the elective category. | SAT Subject Test: any one exam listed above with the score indicated (except Math Level ) each satisfies the one year requirement: | Any one AP Exam listed above, in addition to AP Computer Science A, Microeconomics, Macroeconomics or Psychology or U.S. Government & Politics: Comparative;  
or  
Any one IB HL Exam listed above, in addition to Computer Science, Economics, Philosophy, Psychology, or Social and Cultural Anthropology each satisfies the one-year requirement. | Grade of C or better in any UC-transferrable course beyond the minimum required number of courses in any of the “a-f” areas above; or a course that falls within the elective area (“g”) category |
### Advising Students with Some or All International Coursework

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<td><strong>History/Social Science (“a”)</strong></td>
<td><em>International Only Courses:</em> In lieu of U.S. History, the history of the home country is acceptable. When no history of home country course is available, students should complete other history or social science courses for this requirement. Two years of history/social science coursework is required. <strong>Mixed – US &amp; International Courses:</strong> If graduating from a U.S. high school, a U.S. History course, or one semester of U.S. History and one semester of U.S. Government is required, in addition to one year of World History/Geography/Cultures.</td>
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<td><strong>English- Language of Instruction in Composition &amp; Literature (“b”)</strong></td>
<td><em>International Only Courses:</em> Use courses in the language of instruction to meet the requirement. Four years are required. <strong>Mixed – US &amp; International Courses:</strong> Use courses in the language of instruction for coursework outside of U.S. and use appropriate English courses for coursework in the U.S. If the student will graduate from a U.S. high school, a non-ESL/ELD college prep English course is required in the senior year; a senior-year level course in English Composition/Literature is not specifically required.</td>
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<td><strong>Mathematics (“c”)</strong></td>
<td><em>International Only Courses:</em> Many international high schools use an integrated method of curriculum instruction. Math courses may be listed as “integrated math,” “general mathematics,” or simply “mathematics”, etc. All of these titles are appropriate listings of mathematics courses from an integrated-style program. At least 3 years of “integrated math” (IM) is required to satisfy the subject area. <strong>Mixed – US &amp; International Courses:</strong> Combinations of courses in an integrated math program (IMP) with other math courses are acceptable to satisfy the mathematics subject requirement. Depending upon how the geometry material is handled, the combinations for some integrated programs may be different. If a student completes only part of the sequence, the combinations listed may be used to satisfy the “c” subject requirement.</td>
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Any of the combinations below will satisfy the three year requirement.

- IM 1 + IM 2 + IM 3
- IM 1 + Geometry + Algebra 2
- IM 1 + IM 2 + Algebra 2
- IM 1 + IM2 + Precalculus
- IM 1 + IM 2 + Calculus
- Algebra 1 + IM 2 + IM 3
- Algebra 1 + Geometry + IM 3
- IM 1 + Geometry + IM 3
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| Laboratory Science ("d")<br>■ IS 1 + IS 2 + IS 3<br>■ IS 1 + IS 2 + one year in biology, chemistry or physics<br>■ IS 1 + two years in biology, chemistry and/or physics<br>■ IS 1 + one year in biology, chemistry or physics + IS 3<br>■ Introductory science (e.g. earth science, physical science, geosciences, environmental science)<br> + IS 2 + IS 3 | *International Only Courses*: If multiple science subjects are covered in a single course consider this as “integrated science”. Science courses may be listed as “integrated science,” “general science(s),” or “science”, etc. All of these titles are appropriate listings of science courses from an integrated-style program. At least 3 years of “integrated science” (IS) is required to satisfy the subject area. In most cases, the first year of an integrated science sequence fulfills only the “g” requirement; the second and third years of the sequence fulfill the “d” requirement. Students electing to enroll in an integrated science program (IS) are strongly advised to complete the entire three-year sequence.  
**Mixed – US & International Courses**: If a student completes only part of the sequence, the combinations listed here may be used to satisfy the “d” subject requirement. |

| LOTE–("e") Language Other Than the Language of Instruction (foreign language) | *International Only Courses*: Use English courses taken outside the U.S. to satisfy this requirement; it is also acceptable to use another Language Other Than the Language of Instruction (LOTLI) to satisfy this requirement. Two years of the same language are required.  
**Mixed – US & International Courses**: Use the language of instruction beginning with the U.S. equivalent of 6th grade. |

| Visual and Performing Arts ("f") | *International Only Courses*: Many educational systems follow a strict curriculum that does not allow flexibility in choosing courses, completing VPA coursework may not be an option. Any VPA-type coursework completed outside the US is acceptable. One year is required.  
**Mixed – US & International Courses**: If the student did not complete a year-long VPA-type international course, they must complete a year-long UC-approved VPA course. |

For more information about fulfilling A-G requirements, please visit: [http://admission.universityofcalifornia.edu/counselors/freshman/minimum-requirements/subject-requirement/index.html](http://admission.universityofcalifornia.edu/counselors/freshman/minimum-requirements/subject-requirement/index.html).