

General Education

How to form a Cohesive Cluster?

Students must complete 9 Gen Ed elective courses - 3 in *Arts & Humanities* (AH), 3 in *Social Sciences* (SS) and 3 in *Quantitative Sciences* (QS). Each group of three courses forms a *cohesive cluster*. Gen Ed cohesive clusters consist of **3 thematically or methodologically related courses at least one lower division course (100-level) and at least one upper division course (200-level)**.

To form a cluster all three courses should have the same quadrant number. For example, E&C 103, CHSS 130 and EPIC 231 form a cohesive cluster within the quadrant 1 The World of Human Symbols.

Courses that cluster in *more than one field can only be counted once* (e.g. CHSS 251 counts either as AH or SS).

Some courses offered by a major may also be offered as Gen Ed for non-majors, but cannot be counted as Gen Ed for students in the respective major. For example, CS students cannot count Human Computer Interaction as a Gen Ed course, BAB majors cannot count Introduction to Personal Finance as a Gen Ed course, E&C students cannot count Introduction to Filmmaking as a Gen Ed course.

Please note that freshman students are eligible to take lower division courses only.

Courses from the same quadrant form clusters that satisfy the GenEd breadth requirement.

- Arts & Humanities (AH) – Quadrants 1, 2, 3
- Social Sciences (SS) – Quadrants 4, 5, 6
- Quantitative Sciences (QS) – Quadrants 7, 8, 9

This approach to general education aims to give students flexibility to study subjects they are interested in and to find connections within and between disciplines, while assuring broad exposure to different kinds of thinking.

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The following are some sample clusters. They are not exhaustive. You are encouraged to propose other combinations, which are subject to **case-by-case approval**. If you changed majors and/or have questions about **case-by-case** clusters, please confer with the General Education Adviser or Dean of General Education.

Arts & Humanities	Social Sciences	Quantitative Sciences
<p>Quadrant # 1. The World of Human Symbols includes courses dealing with: Art, Literature, Music, Film, Cinema, Culture, Design, Drama, Linguistics, Media, Communications, Rhetoric, Logic, Great Books, Negotiation, Discourse Analysis,</p>	<p>Quadrant # 4. Society and Culture includes courses dealing with: Law, Political Science, Political Philosophy, Sociology, Culture, Economics, Media, Communications, Development Policy, Regional Politics/International Relations, Negotiation</p>	<p>Quadrant # 7. The Living World includes courses dealing with: Environmental/Climate, Biology, Health, Food, Water, and <u>supporting fields</u>, such as Engineering, Math, Chemistry, Physics, Statistics and Data & Information Science, Critical Thinking, Geography</p>
<p>Quadrant # 2. The Diversity of Human Experience in Time and Space, includes courses dealing with: History, Archeology, Political Science, Culture, Geography, Regional Politics/International Relations, Religion</p>	<p>Quadrant # 5. Economics & Finance includes courses dealing with: Economics, Business, Personal Finance, Accounting, Trade, Development Policy, Innovation/Entrepreneurship, Political Science</p>	<p>Quadrant # 8. The Physical World includes courses dealing with: Environmental/Climate, Physics, Chemistry, Engineering, Disasters, Water, Energy, and <u>supporting fields</u>, such as Math, Chemistry, Physics, Biology, Statistics and Data & Information Science, Critical Thinking</p>
<p>Quadrant # 3. Beliefs and Thought includes courses dealing with: Religion, Philosophy, Political Philosophy, Rhetoric, Logic, Critical Thinking, Ethics, Literature, Psychology, Culture, Discourse Analysis, Statistics for Humanities</p>	<p>Quadrant # 6. Individual & Society includes courses dealing with: Psychology and related fields, such as Critical Thinking, Education, Ethics, Social Psychology, Sociology, Media, Communications</p>	<p>Quadrant # 9. The Built World includes courses dealing with: Technology, Design, Engineering, Critical Thinking, Innovation, Entrepreneurship, Energy, Environmental/Climate and <u>supporting fields</u>, such as Math, Chemistry, Physics, Biology, Statistics and Data</p>

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Subject Code	Course Number	Course Title	Quad
<i>BUS</i>	<i>101</i>	<i>Introduction to Economics</i>	4, 5
<i>BUS</i>	<i>102</i>	<i>Introduction to Personal Finance</i>	5
<i>BUS</i>	<i>105</i>	<i>Foundations of Management</i>	5
<i>BUS</i>	<i>109</i>	<i>Introduction to Business</i>	5
<i>BUS</i>	<i>110</i>	<i>Applied Statistics</i>	7, 8, 9
<i>BUS</i>	<i>288</i>	<i>Business Analytics</i>	4, 5, 7, 8, 9
CHSS	108	Contemporary Issues in American Education	1, 2, 3, 6
CHSS	110	Introduction to Philosophy	3, 6
CHSS	111	Introduction to Ethics	3, 6
CHSS	112	Logic & Rhetoric	1, 3
CHSS	114	Introduction to Religion	3, 6
CHSS	125	Middle East History	2, 4
CHSS	127	World Civilizations 1	2, 4
CHSS	128	History of the Modern World	2, 4
CHSS	129	Global Perspectives and Site Stories	2, 4
CHSS	130	Introduction to Art	1
CHSS	140	Music Appreciation	1
CHSS	141	Understanding the XXth century through Music	1, 2
CHSS	142	Music Theory	1
CHSS	151	Introduction to French Language & Culture	1, 2, 4
CHSS	152	Introduction to Korean Language & Culture	1, 2, 4
CHSS	153	Introduction to Japanese Language & Culture	1, 2, 4
CHSS	154	Armenian Language & Culture (through 2017)	1, 2, 4
CHSS	154	Armenian Society and Culture	1, 2, 4
CHSS	155	Introduction to Russian Language & Culture	1, 2, 4
CHSS	157	Introduction to Italian Language & Culture	1, 2, 4
CHSS	159	Intro to Chinese Language & Culture	1, 2, 4
CHSS	159	Introduction to Chinese Language & Culture	2, 4, 1
CHSS	170	Religion in America	1, 2,3,4,6
CHSS	180	Introduction to Psychology	3, 6
CHSS	181	Introduction to Sociology	4, 6
CHSS	183	Statistics for Humanities and Social Sciences	3, 7, 8, 9
CHSS	184	Social Psychology	3, 4, 6
CHSS	185	Introduction to Genocide Studies	2, 4
CHSS	186	World Regional Geography	2, 4
CHSS	190	Armenian Heritage & Culture	1, 2, 4
CHSS	194	Introduction to Cultural Anthropology	2, 4
CHSS	195	Introduction to Archaeology	2, 4
CHSS	201	Comparative Education	3, 6
CHSS	202	Perspectives in Education	3, 6

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Subject Code	Course Number	Course Title	Quad
CHSS	210	Philosophy, Politics and Economics Seminar	3, 4, 5
CHSS	211	Great Books	1, 2, 3
CHSS	212	Epistemology & Philosophy of Science	3, 7, 8, 9
CHSS	220	Study of History	2, 4
CHSS	221	Ancient Near East	2, 4
CHSS	222	Soviet Armenia	2,4
CHSS	230	Asian Art	1, 2
CHSS	231	Armenian Visual Traditions: Illuminated Manuscripts and Miniatures	1, 2
CHSS	232	Topics in Western Art History	1, 2
CHSS	233	Creative Productions	1, 2
CHSS	234	Cultural Policy and Arts Management	1, 2, 4, 5
CHSS	235	Women/Gender and the Visual Arts	1,2,4,6
CHSS	236	Baroque Era	1,2
CHSS	240	Music and Literature	1
CHSS	251	Topics in Cinema	1, 2, 4
CHSS	255	Russian Professional Communication	1, 2, 5
CHSS	256	Latin Language & Literature	1, 2
CHSS	261	Armenian Literature in Perspective	1, 2
CHSS	262	Russian Language and Literature	1, 2
CHSS	272	Comparative Religion	1, 2, 3, 4, 6
CHSS	281	Human Development & Personality	3, 6, 7
CHSS	282	Trade	4, 5
CHSS	285	Genocide Studies and Human Rights Seminar	2, 4
CHSS	290	Cultural Geography	2, 4
CHSS	292	Gender & Social Change	2, 4
CHSS	293	Intro to Armenian Studies	1, 2
CHSS	TBD	Introduction to Arabic Language & Arab Culture	4, 2, 1
CHSS	156	Introduction to Latin Language & Culture	1, 2, 4
CHSS	192	Introduction to Classical Cultures	1, 2, 4
CHSS	210	Philosophy, Politics and Economics Seminar	4, 5, 3
CHSS	280	Clinical Psychology	3, 6
CHSS	291	Modernism	1, 2, 4
CS	100	<i>Calculus 1</i>	7, 8, 9
CS	102	<i>Calculus 3</i>	7, 8, 9
CS	104	<i>Linear Algebra</i>	7, 8, 9
CS	111	<i>Discrete Math</i>	7, 8, 9
CS	101	<i>Calculus 2</i>	7, 8, 9
CSE	111	The Scientific Method & Critical Thinking	3, 6, 7, 8, 9
CSE	112	Mathematical Thinking	7, 8, 9

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Subject Code	Course Number	Course Title	Quad
CSE	120	Introduction to the World of Programming	7, 8, 9
CSE	130	Technology Marketing	5,9
CSE	131	Industrial Technologies	5,8,9
CSE	141	Introduction to Data	7, 8, 9
CSE	145	Geographic Information Systems	7, 8, 9
CSE	150	Cybersecurity Essentials	5,8,9
CSE	151	Introduction to Energy Sources	8, 9
CSE	162	Bioscience	7, 8, 9
CSE	165	Introduction to Chemistry	7, 8, 9
CSE	171	Conceptual Physics	7, 8, 9
CSE	175	Relativity	8
CSE	181	Creativity and Technological Innovation	5, 9
CSE	190	Engineering for non-Engineers	7, 8, 9
CSE	210	Historical Development of Mathematical Ideas	3, 7, 8, 9
CSE	241	Data Mining	7, 8, 9
CSE	262	Human Brain	3, 6, 7
CSE	262	Quantitative Biology	7, 8, 9
CSE	263	Human Physiology	7
CSE	264	Human Brain	6, 3, 7
CSE	270	Sports Analytics	7, 8, 9
CSE	271	Number Statistics and the Environment	7, 8, 9
CSE	285	How things work	7, 8, 9
CSE	290	Start-up Culture	5, 7, 8, 9
CSE	291	Introduction to Product Design	1, 9
CSE	292	Building a Learning Organization	3,5,6,9
<i>E&C</i>	<i>103</i>	<i>Introduction to Language and Culture</i>	<i>1, 2, 4</i>
<i>E&C</i>	<i>104</i>	<i>Introduction to Communications</i>	<i>1, 4</i>
<i>E&C</i>	<i>105</i>	<i>Structure of English</i>	<i>1</i>
<i>E&C</i>	<i>120</i>	<i>American Literature 1</i>	<i>1</i>
<i>E&C</i>	<i>121</i>	<i>English Literature 1</i>	<i>1</i>
<i>E&C</i>	<i>122</i>	<i>World Literature 1</i>	<i>1, 2</i>
<i>E&C</i>	<i>125</i>	<i>Introduction to Acting Technique</i>	<i>1</i>
<i>E&C</i>	<i>130</i>	<i>Introduction to Journalism</i>	<i>1, 4</i>
<i>E&C</i>	<i>140</i>	<i>Expository Writing</i>	<i>1</i>
<i>E&C</i>	<i>141</i>	<i>Persuasive Writing</i>	<i>1</i>
<i>E&C</i>	<i>151</i>	<i>Consecutive & Simultaneous Interpreting</i>	<i>1</i>
<i>E&C</i>	<i>200</i>	<i>Discourse Analysis</i>	<i>1</i>
<i>E&C</i>	<i>220</i>	<i>American Literature 2</i>	<i>1</i>
<i>E&C</i>	<i>221</i>	<i>English Literature 2</i>	<i>1</i>
<i>E&C</i>	<i>222</i>	<i>World Literature 2</i>	<i>1, 2</i>

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Subject Code	Course Number	Course Title	Quad
E&C	227	<i>Modern Poetry</i>	1, 3
E&C	231	<i>Public Speaking</i>	1
E&C	232	<i>Public Relations</i>	1, 4, 5
E&C	233	<i>Professional Communications</i>	1, 5
E&C	234	<i>Advertising</i>	1, 4, 5
E&C	235	<i>Communications Ethics</i>	1, 3
E&C	236	<i>Survey and Polling Methodology</i>	4
E&C	237	<i>Filmmaking 1</i>	1, 4
E&C	238	<i>Media & Society</i>	1, 4, 5, 6
E&C	240	<i>Creative Writing</i>	1
E&C	243	<i>Practice of Art of Non-Fiction</i>	1
E&C	244	<i>Writing for Media</i>	1, 4
E&C	245	<i>Writing for Tourism, Culture and Country Promotion</i>	1, 4
E&C	246	<i>Business Journalism</i>	5, 1
E&C	250	<i>Introduction to Translation</i>	1
E&C	253	<i>Literary Translation</i>	1
E&C	260	<i>Negotiation</i>	1, 4
E&C	261	<i>World Media</i>	1, 2, 4
E&C	262	<i>Filmmaking 2</i>	1, 4
E&C	263	<i>Opinion Making in the Age of New Media</i>	1, 4, 6
E&C	264	<i>Intro to Photography</i>	1
ECON	121	Principles of Microeconomics	5
ECON	122	Principles of Macroeconomics	4, 5
ENV	101	Introduction to Environmental Sciences	7, 8, 9
ENV	105	Numbers, Responsibility and the Environment	4,7,8,9
ENV	120	Food	7, 9
ENV	140	Solid and Hazardous Waste	8, 9
ENV	150	Basics of Sustainable Energy	4,7,8,9
ENV	170	Chemistry in Everyday Life	7, 8, 9
ENV	202	Environmental Projects	7, 8, 9
ENV	203	Environmental Monitoring	4, 7, 8, 9
ENV	204	Environmental Impact Assessment	4, 7, 8, 9
ENV	210	Disasters	7, 8, 9
ENV	211	Sustainable Cities	4, 7, 8, 9
ENV	212	Mining	4, 7, 8, 9
ENV	215	Urban Environment Mapping	4, 7, 8, 9
ENV	230	Water	7, 8
ENV	250	Biodiversity: Conservation and Restoration	7
ENV	251	Forests	4, 7, 9
EPIC	231	Design and Fabrication	1, 9

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Subject Code	Course Number	Course Title	Quad
LAW	101	Law in Everyday Life	4
LAW	110	Introduction to Armenian Justice System	4
LAW	112	Armenian Constitution	4
LAW	142	Introduction to Human Rights	4
LAW	160	Law & Justice in Popular Culture	3, 4
LAW	202	Legal Anthropology	2,4
PH	101	Basics of Healthy Lifestyle	7
PH	201	Global Health	4, 7
PH	202	Causes, Treatment and Prevention of Cancer	4,7
PSIA	101	Introduction to Political Science	4
PSIA	102	Introduction to US Government	4
PSIA	103	Introduction to Armenian Government	4
PSIA	105	Intro to International Relations	4
PSIA	201	Political Philosophy	2, 3, 4
PSIA	272	Geopolitics of Asia	2, 4, 5
PSIA	281	Development Policy	4, 5
PSIA	273	Geopolitics of Europe	2, 4, 5
PSIA	282	Survey of Regional Politics	2, 4, 5