

UNDERGRADUATE MAJOR UNIT REQUIREMENTS

Undergraduate Major Unit Requirements

The Writing in the Major (WIM) courses listed below reflect courses, offered in past or present years, which satisfy the WIM requirement for majors applying to graduate in the current academic year. Such WIM courses may or may not be offered in the current year. Consult the applicable department section of the Bulletin or ExploreCourses (<http://explorecourses.stanford.edu>) for more information.

School of Earth, Energy and Environmental Sciences

Major Department	Units required outside the dept./program	Units required within the dept./program	Total # of units	Notes/Special Requirements	WIM Course
Aeronautics and Astronautics	47	60	107		
Earth Systems	62-111	21	83-132	internship, senior capstone and project	BIOHOPK 172H, EARTHSYS 135, EARTHSYS 145, EARTHSYS 177, EARTHSYS 191, EARTHSYS 200
Energy Resources Engineering	77-86	33-34	110-120	Senior Project and Seminar (ENERGY 199)	ENERGY 199
Geological Sciences	38-48	65-72	102-121	advanced summer field experience	GS 150, GEOPHYS 199
Engineering Geology & Hydrogeology	55-81	19-31	85-101	-	GS 150, GEOPHYS 199
Geophysics	43-45	15	min. 58	-	GS 150, GEOPHYS 199

School of Engineering

Major Department	Units required outside the dept./program	Units required within the dept./program	Total # of units	Notes/Special Requirements	WIM Course
Aeronautics and Astronautics	46	57	103		AA 190
Architectural Design	40	63	103	-	CEE 100, CEE 32B, CEE 32D
Atmosphere Energy	48-50	49-51	97-101	-	CEE 100, EARTHSYS 200, BIOE 131, COMM 120W, MS&E 152W
Bioengineering	min. 64	min. 39	min. 103	-	BIOE 131

Biomechanical Engineering	48-50	49-51	97-101		ENGR 199W with directed research units; ME 112
Biomedical Computational	51-65	47-56	109-114	Two quarters guided research	ENGR 199W with directed research units (preferred), CS 191W, or CS 272 / BIOMEDIN 212
Chemical Engineering	min. 70	50	min. 120	-	CHEMENG 185A
Civil Engineering	39	62	116	-	CEE 100, CEE 32B, CEE 32D (Architectural Design); CEE 100, EARTHSYS 200, BIOE 131, COMM 120W, MS&E 152W (Atmosphere/Energy); CEE 100 (Civil Engineering); BIOE 131, COMM 120W, EARTHSYS 191, EARTHSYS 200, CEE 100,
Computer Science	min. 33	min. 43	96-106	senior project	CS 181W, CS 191W, CS 194W

Electrical Engineering	40	60	100	EE191W only applies for Honors Thesis. EE191W may satisfy WIM only if it is a follow-up to an REU or independent study project, where a faculty agrees to provide supervision of writing a technical paper and with suitable support from the Writing Center.	CS 194W, EE 109, EE 133, EE 134, EE 153, EE 155, EE 168, EE 191W, EE 264W, EE 264W, EE 155
Energy Resources Engineering	78-84	36-37	114-121		
Engineering Physics	min. 48	min. 45	min. 93	at least 45 units in Engineering Fundamentals with Depth and elective courses must be engineering units	EE 152/ EE 155, ENGR 199W with research or, depending upon specialty track, one of the following: AA 190, BIOE 131 (ETHICSOC 131X), CS 181W, EE 134, ENGR 199W, MATSCI 161, MATSCI 164, ME 112, ME 131A, ME 140, ME 141, PHYSICS 107
Environmental Systems Engineering	20	57	97	Capstone course	BIOE 131, COMM 120W, EARTHSYS 191, EARTHSYS 200, CEE 100
Individually Designed Major	41	40	90-107	-	see adviser

Management Science and Engineering	42	65	107	Senior Project	MS&E 108
Material Science and Engineering	min. 53	min. 50	min 103	-	MATSCI 161, MATSCI 164
Mechanical Engineering	48	68	116	-	3-course required sequence to fulfill WIM for ME majors: ME 112, ME 131A, ME 140, ME 141
Product Design	min. 58	53-56	113		ME 112

School of Humanities and Sciences

Major Department	Units required outside the dept./ program	Units required within the dept./ program	Total # of units	Notes/ Special Requirements	WIM Course
African and African Studies	50	10	60	AAAS thesis seminar	AFRICAAM 200X
American Studies			60		AMSTUD 160
Anthropology	45	50	65	ANTHRO 193A, ANTHRO 90B, Contemporary Debates in Anthropology	ANTHRO 90B, ANTHRO 90C
Archaeology	45	20	65	foreign language 1st qtr. at 2nd-year level	ARCHLGY 103
Art History	-	65	65	library orientation, junior seminar	ARTHIST 294
Art Practice (Studio)	-	65	65	Interdisciplinary art survey, advanced undergraduate seminar, library orientation	ARTHIST 294
Asian American Studies	40	20	60	Comparative and Major- Core Curriculum, Methodology/ Research, Interdisciplinary Breadth Requirement	CSRE 200X, CSRE 201X

Biology	33-47	55	88-102	BIO 46, BIO 47, BIO 107 (HUMBIO 136), BIO 168, BIO 196A, BIO 197WA, BIO 199W, BIOHOPK 47, BIOHOPK 172H	East Asian Studies	75	3	78	Capstone Course (EALC 198); studies in an East Asian country for 1 qtr; Senior Essay or Honors Thesis	CHINA 111, JAPAN 138 (COMPLIT 138A), KOREA 120	
Chemistry	20-39	47-68	82-104	The Biological Chemistry Concentration requires more units.	CHEM 134						
Chicana/o Studies	40	20	60	Comparative Core Curriculum, Methodology Research Course, Senior Research, Interdisciplinary Breadth Requirements	CSRE 200X, CSRE 201X						
						Economics	-	80	80	-	ECON 101
						English	-	64	68-70	-	ENGLISH 162W
						English w/ Creative Writing	-	73-75	73-75	dept. approval	ENGLISH 162W, ENGLISH 164; ENGLISH 196A, ENGLISH 164C
						English w/ Interdisciplinary Emphasis	15	58-60	73-75	dept. approval and interdisciplinary paper	ENGLISH 162W, ENGLISH 164; ENGLISH 196A, ENGLISH 164C
Classics	-	-	60-65	majors seminar (CLASSICS 100)	CLASSICS 150 (Formerly CLASSGEN 176)	English w/ Interdeptn Emphasis	16-20	53-55	69-75	16-20 units in foreign lang. lit.; dept. approval	ENGLISH 162W, ENGLISH 164; ENGLISH 196A, ENGLISH 164C
Communication	5	60	65	-	COMM 137W, COMM 104W, COMM 142W	English w/ Philosophy	20-25	57-59	77-84	-	ENGLISH 162W, ENGLISH 164; ENGLISH 196A, ENGLISH 164C
Comparative Literature		40	65	Gateway Course: COMPLIT 101. Core: COMPLIT 121, COMPLIT 122, COMPLIT 123. Capstone course: COMPLIT 199, and 25 units of electives in COMPLIT	COMPLIT 101	Feminist, Gender, and Sexuality Studies	45	18 core	63	Practicum	AMSTUD 160, ANTHRO 90B, FEMGEN 157
						Film and Media Studies	-	64	64	library orientation, senior seminar	FILMSTUD 101, FILMSTUD 102
Comparative Studies in Race & Ethnicity	45	15	60	Comparative Core Curriculum, Methodology Research Course, Senior Research, Major Concentration Interdisciplinary Breadth Requirements	CSRE 200X, CSRE 201X, EDUC 199A	French	-	32	56	Gateway courses: FRENCH 10 FRENCH 121; Capstone: any FRENCH 200-level. Oral Proficiency Interview (OPI).	FRENCH 131, FRENCH 133

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French and Philosophy	min. 21	32 above #100	65	Gateway course: FRENCH 131, FRENCH 133, FRENCH 181. Capstone: COMPLIT 153C, FRENCH 246, ILAC 240E, ITALIAN 246. Oral Proficiency Interview (OPI)	FRENCH 131, FRENCH 133	Italian and Philosophy	min. 21	32 above #100	72	Gateway course; Capstone: ITALIAN 236 or equiv.; Oral Proficiency Interview (OPI)	ITALIAN 127, ITALIAN 128
German	0-25	35-60	60	Gateway course: GERMAN 116, GERMAN 150 capstone; Oral Proficiency Interview (OPI)	GERMAN 116, GERMAN 150	Jewish Studies (Individually Designed)	75-77	-	75-77	Comparative Studies and Major-Core Curriculum, Methodology/Research Course, Senior Research, Interdisciplinary Breadth Requirement	CSRE 201X
German and Philosophy	min. 21	min. 39	65	Gateway course; capstone; Oral Proficiency Interview (OPI)	GERMAN 116, GERMAN 150	Linguistics	-	28	55	Additional courses counting toward the 50 unit requirement should form a coherent program of study, and specific courses must be approved by the Undergraduate Adviser.	LINGUIST 121A, LINGUIST 121B, LINGUIST 130A
History	-	63-74	63-74	3 from #200-298	HISTORY 209S						
Human Biology (B.A.)	min. 6	min. 40	min. 81	Capstone	HUMBIO 2B, HUMBIO 3B, HUMBIO 4B						
Human Biology (B.S.)	min. 6	min. 40	min. 81	Capstone	HUMBIO 2B, HUMBIO 3B, HUMBIO 4B						
Iberian and Latin American Cultures	0	40	60	Gateway course (2 of 3): ILAC 130, ILAC 131, ILAC 132. Senior Seminar: ILAC 278A. Oral Proficiency Interview (OPI)	ILAC 278A	Mathematical & Computational Science	-		78-84	Capstone course	CS 181W, MATH 109, MATH 110, MATH 120, MATH 171
International Relations	55-70	0-15	70	2 yr. foreign lang; Overseas studies 1 qtr.	INTNLREL 110L, INTNLREL 140A, INTNLREL 140C, INTNLREL 174, INTNLREL 200B	Mathematical up to 15 units	49		64	-	MATH 101, MATH 109, MATH 110, MATH 120, MATH 171
Italian	-	32	56	Gateway course; or equiv.; Oral Proficiency Interview (OPI)	ITALIAN 127, ITALIAN 128, ITALLANG 22A	Music	-	62-78	62-78	Total units dependent upon selected, optional concentration area	3 from the following: MUSIC 144K, MUSIC 145K, MUSIC 146J, MUSIC 146L

Native American Studies	40	20	60	Comparative and Major-Core Curriculum, Methodology Research Course, Senior Research, Interdisciplinary Breadth Requirement	CSRE 200X, CSRE 201X	Russian Literature & Philosophy	21	40	67	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146
Philosophy	-	55	55	course in 194 series	PHIL 80	Science, Technology, & Society (B.A.)	max. 72	min. 8	min. 76	Gateway course; capstone	ANTHRO 90C; CS 181W; COMM 142W; COMM 120W; HISTORY 140A; HISTORY 232F
Philosophy and Literature	min. 15	min. 47	65	Gateway course;	PHIL 80 194	Science, Technology, & Society (B.S.)	max. 72	min. 8	min. 76	Gateway course; capstone	ANTHRO 90C; CS 181W; COMM 142W; COMM 120W; HISTORY 140A; HISTORY 232F
Philosophy and Religious Studies	-	60	60	3 seminars; 20 units in each dept. + 20 advanced units from both depts.	PHIL 80 or RELIGST 290	Slavic Languages and Literatures	-	-	56	Capstone: any SLAVIC 300-level course	SLAVIC 146
Physics	21-24	56-60	77-84	-	PHYSICS 107	Sociology	5-15	45-55	60		SOC 202, SOC 204
Political Science	0	45-70	70	Introductory course	POLISCI 103, POLISCI 110D, POLISCI 1, and advanced seminar (200 or 300 level)	Spanish	0	35	60	Gateway course: ILAC 130, ILAC 131; Seminar: ILAC 277; Oral Proficiency Interview (OPI)	ILAC 277
Psychology	N/A	60	70	-	PSYCH 164, PSYCH 175	Studio Art: See Art Practice (Studio)					
Public Policy	25-54	25-68	min. 77		PUBLPOL 106 (ECON 154), PUBLPOL 154, PUBLPOL 156,	Symbolic Systems	66-81	4	70-85	-	PHIL 80
Religious Studies	-	60	60	introductory course, majors' seminar, senior essay or honors thesis, senior colloquium	RELIGST 290	Theater and Performance Studies	-	60	60	Gateway course; capstone	TAPS 157, TAPS 167H
Russian Language & Literature	0-10	46-56	56	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146	Urban Studies	34	36	70	20 units in concentration; capstone courses	URBANST 202, URBANST 203
Russian Language, Culture, & History	12-20	36-39	56	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146						