

UNDERGRADUATE MAJOR UNIT REQUIREMENTS

Undergraduate Major Unit Requirements

The Writing in the Major (WIM) courses listed below reflect courses are offered 2018-2019, which satisfy the WIM requirement for majors applying to graduate in the current academic year. Consult the applicable department section of the Bulletin, WIM courses (<https://undergrad.stanford.edu/programs/pwr/courses/writing-major/wim-courses>), or ExploreCourses (<http://explorecourses.stanford.edu>) for more information regarding WIM courses offered previous years.

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
Earth Systems	62-111	21	83-132	internship, senior capstone and project	BIOHOPK 172H, EARTHSYS 135, EARTHSYS 149, EARTHSYS 177 (COMM 177C), EARTHSYS 191
Energy Resources Engineering	78-84	36-37	114-121	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	27-45	24-42	69	-	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	47	60	107	-	AA 190
Architectural Design	40	63	103	-	CEE 32B, CEE32D or CEE 100
Atmospheric Energy	48-50	49-51	97-101	-	BIOE 131, COMM 120W, CEE 100, or EARTHSYS 200
Bioengineering	65	39	104	-	BIOE 131
Biomechanical Engineering	48-50	40	90-94	-	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	48-50	68	115-117	-	CEE 100
Computer Science	min. 30	min. 43	96-106	senior project	CS 181W, CS 191W, CS 194W, CS 210B, CS 294W
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, EE191W, EE 155, EE 168, EE 191W, EE 264W, EE 267W
Energy Resources Engineering	78-84	36-37	114-121	-	
Engineering Physics	min. 48	min. 45	min. 93	at least 45 units in	AA 190, BIOE 131, Engineering (ETHICSOC 131X), Fundamentals of Engineering (EE 131), Depth and elective courses must be engineering units
					CS 181W, EE 134, EE155, ENGR 199W, MATSCI 161, MATSCI 164, ME 112, ME 140, PHYSICS 107

2 Undergraduate Major Unit Requirements

Environmental Systems Engineering	30-41	40	96-98	Capstone course	BIOE 131, COMM 120W, EARTHSYS 191 or BIOHOPK 172H	Asian American Studies	40	20	60	Comparative Core Curriculum, Methodology/Research, Interdisciplinary Breadth Requirement
Individually Designed Major	41	40	90-107	Senior capstone	see adviser					
Management Science and Engineering	49	58	107	Senior Project	MS&E 108	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
Materials Science and Engineering	min. 43	min. 60	min 103	-	MATSCI 161, MATSCI 164					
Mechanical Engineering	45	68	113	-	ME 112, 140	Chemistry	20-39	47-68	82-104	The Biological Chemistry Concentration requires more units. CHEM 134
Product Design (Mechanical Engineering)	min. 54	52-56	106		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 American Studies	50	10	60	AAAS thesis seminar	AFRICAAM 200	Chicana/o Studies	40	20	60	Comparative Core Curriculum, Methodology/Research Course, Senior Research, Interdisciplinary Breadth Requirements
American Studies			60		AMSTUD 160					
Anthropology	5	50	65	ANTHRO 193 Senior Capstone ANTHRO 91. Method and Evidence Foreign Language requirement	ANTHRO 90B	Classics	-	-	60-65	majors seminar (Formerly CLASSICS 150) (CLASSICS 176)
Archaeology	45	20	65	foreign language 1st qtr. at 2nd-year level	ARCHLGY 103	Communications	5	60	65	- COMM 104W, COMM 120W, COMM 137W (AMSTUD 137)
Art History	-	65	65	library orientation, junior seminar	ARTHIST 294	Comparative Literature		40	65	Core COMPLIT 101,121,122,123, 199; and 15 units of electives in COMPLIT
Art Practice (Studio)	-	65	65	Interdisciplinary art survey, advanced undergraduate seminar, library orientation	ARTHIST 294	Comparative Studies in Race & Ethnicity	45	15	60	Comparative Core Curriculum, EDUC 99A Methodology/Research Course, Senior Research, Subplan Requirements Interdisciplinary Breadth Requirements

East Asian Studies	~ 70 units minimum	~ 8 units minimum	78 units minimum	Capstone Course (EALC 198); overseas studies in an East Asian country for 1 qtr; Senior Essay or Honors Thesis	CHINA 111, JAPAN 138 (COMPLIT 138A), KOREA 120	French	-	32	56	Gateway courses: FRENCH 120,121 & 129. Capstone: any FRENCH 200 level. Oral Proficiency Interview OPI.	FRENCH 133
East Asian Studies, China Subplan	~ 45 units minimum	~ 25 units minimum	70 units minimum	3rd-yr language proficiency; capstone/honors	CHINA 111	French and Philosophy	min. 21	32 above #100	65	Gateway course: FRENCH 18 Capstone: COMPLIT 153C, FRENCH 241 ILAC 240E, ITALIAN 246. Oral Proficiency Interview (OPI)	FRENCH 133
East Asian Studies, Japan Subplan	~ 45 units minimum	~ 20 units minimum	65 units minimum	3rd-yr language proficiency; capstone/honors	JAPAN 138	German	0-25	35-60	60	Gateway course: GERMAN 88; capstone; Oral Proficiency Interview (OPI)	GERMAN 116
East Asian Studies, Korea Subplan	~ 33 units minimum	~ 26 units minimum	59 units minimum	3rd-yr language proficiency; capstone/honors	KOREA 120	German and Philosophy	min. 21	min. 39	65	Gateway course; capstone; Oral Proficiency Interview (OPI)	GERMAN 116
Economics	-	80	80	-	ECON 101	History	-	63-74	63-74	2 from HISTORY 201-298 plus 1 from HISTORY 200-series	HISTORY 209S
English	-	64	68-70	-	ENGLISH 162W	Human Biology (B.A.)	min. 6	min. 40	min. 81	Capstone	HUMBIO 2B, HUMBIO 3B, HUMBIO 4B
English w/ Creative Writing	-	73-75	73-75	dept. approval	ENGLISH 162W, ENGLISH 164; ENGLISH 196A	Human Biology (B.S.)	min. 6	min. 40	min. 81	Capstone	HUMBIO 2B, HUMBIO 3B, HUMBIO 4B
English w/ Interdisciplinary Emphasis	15	58-60	73-75	dept. approval and interdisciplinary paper	ENGLISH 162W, ENGLISH 164; ENGLISH 196A	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
English w/ Interdepartmental Emphasis	16-20	53-55	69-75	16-20 units in foreign lang. lit.; dept. approval	ENGLISH 162W, ENGLISH 164; ENGLISH 196A						
English w/ Philosophy	20-25	57-59	77-84	-	ENGLISH 162W, ENGLISH 164; ENGLISH 196A						
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 102						

International Relations	55-70	0-15	70	2 yr. foreign lang; Overseas studies 1 qtr.	INTNLREL 140A, INTNLREL 140C (HISTORY 201C), INTNLREL 174, INTNLREL 200B, INTNLREL 103F	Mathematics Up to 15. Computer Science Theory/ Discrete Mathematics Subplan: minimum 18	49	64 units minimum	MATH 101, MATH 109, MATH 110, MATH 120, MATH 171
Italian	-	32	56	Gateway course; ITALLANG 2 or equiv.; Oral Proficiency Interview (OPI)	ITALIAN 128				
Italian and Philosophy	min. 21	32 above #100	72	Gateway course; Capstone: ITALIAN 236E; ITALLANG 22A or equiv.; Oral Proficiency Interview (OPI)	ITALIAN 128				
Jewish Studies (Individually Designed)	45	15	60	Comparative Core Curriculum, Methodology/ Research Course, Senior Research, Interdisciplinary Breadth Requirement	CSRE 200X, CSRE 201X				
Linguistics	-	28	55	Additional courses counting toward the 55 unit requirement should form a coherent program of study, and specific courses must be approved by the Undergraduate Adviser.	LINGUIST 121A, LINGUIST 130A				
Mathematics & Computer Science	-		78-84	Capstone course	CS 181W, MATH 109, MATH 110, MATH 120, MATH 171, STATS 155				
Music	-						63-78	63-78	Total units dependent upon selected, optional concentration area
Native American Studies	40						20	60	Comparative Core Curriculum, Methodology/ Research Course, Senior Research, Interdisciplinary Breadth Requirement
Philosophy	-						55	55	course in PHIL 80 194 series
Philosophy and Literature	min. 15						min. 47	65	Gateway course; PHIL 80 194
Philosophy and Religious Studies	-						60	60	3 seminars; PHIL 80 or RELIGST 290 in each dept. + 20 advanced units from both depts.
Physics	21-24						56-60	77-84	- PHYSICS 107
Political Science	0						45-70	70	Introductory course POLISCI 103, POLISCI 110C, POLISCI 110D, POLISCI 120C, advanced POLISCI 121, seminar POLISCI 236, (200 or 300 POLISCI 299A level)
Psychology	N/A						60	70	- PSYCH 138, PSYCH 164
Public Policy	25-54						25-68	min. 77	PUBLPOL 106 (ECON 154), PUBLPOL 154, PUBLPOL 156, PUBLPOL 200H
Religious Studies	-						60	60	introductory course, majors' seminar, senior essay or honors thesis, senior colloquium

Russian Language & Literature	0-10	46-56	56	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146
Russian Language, Culture, & History	12-20	36-39	56	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146
Russian Literature & Philosophy	21	40	67	1st- and 2nd- year Russian; Gateway course; capstone; language assessment	SLAVIC 146
Science, Technology, & Society (B.A.)	68	8	min. 76	Gateway course; capstone	CS 181W, STS 191
Science, Technology, & Society (B.S.)	68	8	min. 76	Gateway course; capstone	CS 181W, STS 191
Slavic Languages and Literatures	-	-	56	Capstone: any SLAVIC 300-level course	SLAVIC 146
Sociology	5-15	45-55	60		SOC 202, SOC 204
Spanish	0	35	60	Gateway course: ILAC 130, ILAC 131; Senior Seminar: ILAC 277; Oral Proficiency Interview (OPI)	ILAC 277
Studio Art: See Art Practice (Studio)					
Symbolic Systems	66-81	4	70-85	-	PHIL 80
Theater and Performance Studies	-	60	60	Gateway course; capstone	TAPS 151T, TAPS 153H
Urban Studies	34	36	70	20 units in concentration; capstone courses	URBANST 202 (SOC 202), URBANST 203