

GENERAL EDUCATION APPROVED COURSE SUBSTITUTION LISTS

Only students approved for a substitution by the Course Substitution Committee (<https://curricula.unc.edu/course-substitution-petition-process/>) may use the below listed courses to fulfill global language or quantitative General Education requirements. The below lists were approved effective fall 2024. Students approved for a course substitution prior to fall 2024 may use courses from this list in addition to their originally approved course list. All students approved for a substitution may continue to use courses approved for the applicable requirement to fulfill the requirement in addition to any of the below substitutions.







Quantitative Substitution








For students following the IDEAs in Action General Education curriculum (<https://catalog.unc.edu/undergraduate/ideas-in-action/>), this substitution list applies to the Focus Capacity: Quantitative Reasoning (FC-QUANT (<https://catalog.unc.edu/undergraduate/ideas-in-action/quantitative/>)) requirement. Courses used for substitution will follow the overlap rules for Focus Capacity courses as outlined in the IDEAs in Action General Education curriculum (<https://catalog.unc.edu/undergraduate/ideas-in-action/>).

For students following the Making Connections General Education curriculum, this substitution list applies to the Quantitative Reasoning (QR) and Quantitative Intensive (QI) requirements. In addition to the substitution courses listed below, approved students following the Making Connections General Education curriculum may use any QI course to fulfill the QR requirement and may use any FC-QUANT (<https://catalog.unc.edu/undergraduate/ideas-in-action/quantitative/>) course to fulfill either QR or QI (see lists at the end of this page (p. 6)).

Students may request an adjustment to which course(s) are being used as a substitution if they would prefer to retain a General Education credit the course is approved to fulfill which cannot overlap with substitution. They can do so by contacting the course evaluation coordinator (<https://curricula.unc.edu/staff-contacts/>) in the Office of Undergraduate Curricula.

Quantitative Substitution Course List

Code	Title	Hours
ANTH 220	 Principles of Archaeology	3
COMP 126	 Practical Web Design and Development for Everyone	3
EDUC 408	Research Methods in Human Development	3
GEOG 50	 First-Year Seminar: Mountain Environments ^H	3
GEOG 110	 The Blue Planet: An Introduction to Earth's Environmental Systems ^H	3
GEOG 111	 Weather and Climate	3
GEOG 115	Maps: Geographic Information from Babylon to Google	3
GEOG 230	The World at Eight Billion	3
GEOG 269	 Human-Environment Interactions in the Galapagos Islands	3

GEOG 391	Quantitative Methods in Geography	3
GEOG 412	Synoptic Meteorology	3
GEOG 414	 Climate Change	3
GEOG/ENEC 437	 Social Vulnerability to Climate Change	3
GEOG 441	Introduction to Watershed Systems	3
GEOG/ENEC 451	 Population, Development, and the Environment	3
GEOG/PLAN 491	Introduction to GIS	3
GEOG 544	Geographic Information Systems for Impact Evaluation and Health Studies	3
INLS 151	 Retrieving and Analyzing Information	3
LING 101	 Introduction to Language ^H	3
LING 200	 Phonology	3
LING 201	Syntax	3
LING 427	Morphology	3
MUSC 121	 Fundamentals of Tonal Music I	3
MUSC 239	Introduction to Music Technology	3

^H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

Global Language Substitution



For students following the IDEAs in Action General Education curriculum (<https://catalog.unc.edu/undergraduate/ideas-in-action/>), this substitution list applies to the Global Language (GLBL-LANG (<https://catalog.unc.edu/undergraduate/ideas-in-action/global-language/>)) requirement. GLBL-LANG approved courses will follow the overlap rules as outlined in the IDEAs in Action General Education curriculum (<https://catalog.unc.edu/undergraduate/ideas-in-action/>). Courses used as a GLBL-LANG substitution course may overlap with one or more of the following Gen Ed requirements: FY-Seminar/FY-Launch, Research and Discovery, High-Impact Experience, Communication Beyond Carolina.

For students following the Making Connections General Education curriculum, this substitution list applies to the Foreign Language (FL) requirement. Courses used for substitution may not overlap with any other General Education requirements, as FL is a Foundations requirement.


























































Students may request an adjustment to which course(s) are being used as a substitution if they would prefer to retain a General Education credit the course is approved to fulfill which cannot overlap with substitution. They can do so by contacting the course evaluation coordinator (<https://curricula.unc.edu/staff-contacts/>) in the Office of Undergraduate Curricula.

Each student is required to take 1–3 substitution courses. The number of courses required is based on course and placement credit already earned at the time of approval and will be stated in the student's approval letter.


Global Language Substitution List




































Code	Title	Hours
AAAD 201	 Introduction to African Literature	3
AAAD 421	 Introduction to the Languages of Africa	3
AMST 246	Indigenous Storytelling: Oral, Written, and Visual Literatures of Native America	3

2 General Education Approved Course Substitution Lists

ANTH/FOLK 130	Anthropology of the Caribbean	3	ASIA/JWST/ PWAD 425	 Beyond Hostilities: Israeli-Palestinian Exchanges and Partnerships in Film, Literature, and Music	3
ANTH/LING 138	Linguistic Anthropology	3			
ANTH/ENEC 191	Peoples of Siberia	3			
ANTH 206	American Indian Societies	3	ASIA/PWAD 427/ CMPL 527	 Cold War Culture in East Asia: Transnational and Intermedial Connections	3
ANTH 232	 Ancestral Maya Civilizations ^H	3			
ANTH/ASIA 330	 Melancholy Japan: Myth, Memory, and Everyday Life	3	ASIA/PWAD 435/ CMPL 535	 The Cinemas of the Middle East and North Africa	3
ANTH/FOLK 340	Southern Styles, Southern Cultures	4	ASIA/JWST 436	 Language, Exile, and Homeland in Zionist Thought and Practice	3
ANTH/FOLK/RELI 342	African-American Religious Experience	3			
ANTH 343/ AAAD 319/ ARTH 353	Africa and Masks	3	ASIA/CMPL 442	 Postcolonial Literature of the Middle East	3
ANTH 360	Latin American Economy and Society	3	ASIA 522	 Beauty and Power in the Classical Indian World	3
ANTH 361	Community in India and South Asia	3	CHIN 150	 Introduction to Chinese Civilization	3
ANTH 406	 Native Writers	3	CHIN 252	 Introduction to Chinese Culture through Narrative	3
ANTH 454	The Archaeology of African Diasporas	3	CHIN/CMPL 238	 From Martial Arts to Street Dance: Rebellion with Chinese Characteristics	3
ARAB 150	 Introduction to Arab Cultures	3	CHIN/CMPL 247	 Indigenous Spiritualities in Literatures of China and Taiwan ^H	3
ARAB 151	 Arabic Literature through the Ages	3	CHIN 346	 History as Fiction or Fiction as History? Early Chinese History in Film and Literature	3
ARAB 211	 Arab Comics	3			
ARAB/ANTH 214	 Medicine in the Arab World	3	CHIN 356	 Chinese Environmental Literature	3
ARAB 255	 Arab World Photography	3	CHIN 361	 Chinese Traditional Theater	3
ARAB 337	 Borders and Walls in the Arab World	3	CHIN 463	 Narrative Ethics in Modern China	3
ARAB/ANTH 354	 Everyday Lives in the Middle East: Anthropological Perspectives	3	CHIN 475	 Confucianism: Origin, History, and Contemporary Relevance	3
ARAB/ANTH 432	 Science and Society in the Middle East	3	CHIN 476	 Daoism: Origin, History, and Contemporary Relevance	3
ARAB 434	 Modern Arabic Literature in Translation	3	CHIN/CMPL/ WGST 480	 Queering China	3
ARAB 453	 Film, Nation, and Identity in the Arab World	3	CHIN/CMPL 545	 Chinese Science Fiction	3
ASIA/WGST 127	 Iranian Women Writers	3	CHIN 551	 Chinese Poetry in Translation	3
ASIA 150	 Asia: An Introduction	3	CLAR 120	 Ancient Mediterranean, Egyptian, and Near Eastern Archaeology ^H	3
ASIA 152	 Survey of South Asian Cultural History	3	CLAS 121	 The Greeks ^H	3
ASIA/WGST 167	 Gender, Sexuality, and Social Justice in South Asia	3	CLAS 122	 The Romans ^H	3
ASIA 211	 The Silk Road: Markets, Metaphysics, and Music	3	CLAS 126	Medical Word Formation and Etymology	3
ASIA 229	 Breakdancers, Vocaloids, and Gamers: East Asian Youth Cultures	3	CLAS 131	 Classical Mythology ^H	3
ASIA 231	 Bollywood Cinema	3	CLAS 263	 Athletics in the Greek and Roman Worlds ^H	3
ASIA/CMPL 258	 Iranian Prison Literature	3	CMPL 120	 Great Books I: Epic and Lyric Traditions	3
ASIA/CMPL 261	 India and Orientalism	3	CMPL 122	 Great Books I: Visual Arts and Literature from Antiquity to 1750 ^H	3
ASIA 262	 Nation, Film, and Novel in Modern India	3	CMPL 123	 Great Books I: Politics and Literature from Antiquity to 1750	3
ASIA 350/ AMST 352	 The Asian American Experience	3	CMPL 124	 Great Books I: Science and Literature from Antiquity to 1750	3
ASIA/JWST 358	 Religion and Tradition in Israeli Cinema, TV, and Literature	3	CMPL 130	 Great Books II ^H	3
ASIA/CMPL 359	 Literary Diasporas of the Middle East	3	CMPL 454	 Literature of the Continental Renaissance in Translation ^H	3
ASIA/RELI 383	 The Mahabharata: Remembered and Reimagined—Experiential	3			

CMPL 470	Concepts and Perspectives of the Tragic	3	GERM 211	Concepts in Medieval Culture	3
CMPL 472	The Drama from Ibsen to Beckett	3	GERM/WGST 220	Women in the Middle Ages	3
COMM 113	Public Speaking	3	GERM/RELI 227	Luther and the Bible	3
COMM/MNGT 120	Introduction to Interpersonal and Organizational Communication ^{H, F}	3	GERM 245	Marx, Nietzsche, and Freud	3
COMM 160	Introduction to Performance Studies ^H	3	GERM 247	Music, Madness, and Genius: The Pathologies of German Musical Literature	3
COMM/MNGT 223	Small Group Communication	3	GERM 249	German Literature in Translation	3
COMM/WGST 224	Introduction to Gender and Communication ^H	3	GERM/CMPL 263	European Exile Cinema	3
COMM 312	Persuasion	3	GERM 265	Hitler in Hollywood: Cinematic Representations of Nazi Germany	3
COMM/MNGT 325	Introduction to Organizational Communication ^H	3	GERM/CMPL 266	Weimar Cinema	3
COMM 372	The Rhetoric of Social Movements	3	GERM 268	Auteur Cinema	3
CZCH 280	Closely Watched Trains: Czech Film and Literature	3	GERM/CMPL/ WGST 271	Women in German Cinema	3
CZCH 411	Introduction to Czech Literature	3	GERM/CMPL 272	History of German Cinema	3
CZCH/CMPL 469	Milan Kundera and World Literature	3	GERM/JWST 274	Representing the Holocaust: Mediating Trauma in Art and Theory ¹	3
DRAM 281	Theatre History and Literature I	3	GERM 278	Performance, Drama, Translation, Adaptation and Ethnographic Exchange	3
DRAM 282	Theatre History and Literature II	3	GERM 279	Once Upon A Fairy Tale: Fairy Tales and Childhood, Then and Now	3
DRAM 283	Theatre History and Literature III	3	GERM 281	The German Idea of War: Philosophical Dialogues with the Literary and Visual Arts in WWI	3
DRAM 486	Latin American Theatre	3	GERM/PWAD 283	Freedom, Terror, and Identity: Modern Philosophy from Kant to Arendt	3
DTCH 275	Rising Fortunes and Rising Tides: The Dutch Golden Age and its Legacy	3	GERM 284	Translations and Adaptations of German Pop Literature	3
ENGL 115	History of the English Language	3	GERM 285	Contemporary German Literature in Translation	3
ENGL 213	Grammar of Current English	3	GERM 286	(Un)Welcomed Guests? German Reflections on Exile and Immigration	3
ENGL 215	English in the U.S.A. ^H	3	GERM 416	The Viking Age ¹	3
ENGL 301	Professional Writing in the Arts	3	GERM 450	Nietzsche, Hesse, and Mann	3
ENGL 302	Professional Communication for Social Movements	3	GERM 467	Contemporary German and Austrian Cinema	3
ENGL 303	Scientific and Technical Communication	3	GERM 475	Different than the Others: Stories of Queer German Liberation, 1864-2021 ¹	3
ENGL 304	Advanced Business Communication	3	GERM 555	Interrogating Cultures of Fascism: Introduction to Frankfurt School's Critical Theory 1923-Present ¹	3
ENGL 305	Advanced Legal Communication	3	GERM/JWST 556	Language Remains: Exploring the German-Jewish Dialogue ¹	3
FREN 186	Food for Thought: Cultures of Cuisine in Modern France (Renumbered from FREN 286 effective Fall 2021)	3	GERM 560	20th-Century German Philosophy and Modern Youth Cultures ¹	3
FREN 280	French "Discoveries" of the Americas in Translation	3	GERM/CMPL 579	What is a Medium? German Media Theory from Aesthetics to Cultural Techniques ¹	3
FREN 285	Sex, Philosophy, and Politics: Revolutionary Literature in Translation	3	GSL 50	First-Year Seminar: Literary Fantasy and Historical Reality	3
GEOG 59	First-Year Seminar: Space, Identity, and Power in the Middle East	3	GSL 51	First-Year Seminar: Stalin and Hitler. Historical Issues in Cultural and Other Perspectives	3
GEOG 64	First-Year Seminar: Vietnam	3	GSL 52	First-Year Seminar: Nature and Death: Ecological Crises in German Literature and Film	3
GEOG 259	Society and Environment in Latin America	3			
GEOG 266	Society and Environment in Southeast Asia	3			
GEOG 457	Rural Latin America: Agriculture, Environment, and Natural Resources ^H	3			
GEOG 458	Urban Latin America: Politics, Economy, and Society	3			
GERM 210	Getting Medieval: Knights, Violence, and Romance	3			

GSSL 53	 First-Year Seminar: Early Germanic Culture: Myth, Magic, Murder, and Mayhem	3	GSSL/CMPL 270/ JWST 239/RELI 239	German Culture and the Jewish Question	3
GSSL 54	 First-Year Seminar: Once upon a Fairy Tale: Fairy Tales and Childhood, Then and Now	3	GSSL 271	Vampires and Empires	3
GSSL/JWST 56	 First-Year Seminar: Germans, Jews, and the History of Anti-Semitism	3	GSSL 272	Poland, Russia, and Germany through the Prism of Film	3
GSSL 59	 First-Year Seminar: Moscow 1937: Dictatorships and Their Defenders	3	GSSL 273	 Close Your Eyes and See a Film: The Documentary in Central Europe	3
GSSL 60	 First-Year Seminar: Avant-Garde Cinema: History, Themes, Textures	3	GSSL 278	Music, Image, Text	3
GSSL 67	 First-Year Seminar: Blackness in the European Imaginary, Europe in the Black Imaginary	3	GSSL 279	A River Runs Through It: Cultural Geography Through Imaginative Literature	3
GSSL 68	 First-Year Seminar: Intensity, Vitality, Ecstasy: Affects in Literature, Film, and Philosophy ^H	3	GSSL 280	The Dialectic of Whiteness and Blackness in Atlantic Cultures	3
GSSL 69	 First-Year Seminar: Laughing and Crying at the Movies: Film and Experience	3	GSSL/CMPL 281	Holocaust Cinema in Eastern Europe	3
GSSL 70	 First-Year Seminar: Teenage Kicks: Race, Class, and Gender in Postwar Youth Cultures	3	GSSL/AAAD 282	Afropessimism in American and European Film	3
GSSL 75	 First-Year Seminar: The Book of Books: Literature and the Bible	3	GSSL 283	Hungarian Cinema since World War II	3
GSSL 76	 First-Year Seminar: Uncharted Territory: Underworlds in Literature and the Visual Arts	3	GSSL 285	Dissent and Protest in Central Europe	3
GSSL 80	 Not Just Dogs: Animals in Russian Literature	3	GSSL 286	 The Upright and the Toppled: Public Lives of Monuments in Europe and the American South	3
GSSL 83	 First-Year Seminar: We, Robots: Identifying with our Automated Others in Fiction and Film	3	GSSL 287	 Into the Streets: 1968 and Dissent in Central Europe	3
GSSL 84	 First-Year Seminar: Terror for the People: Terrorism in Russian Literature and History	3	GSSL/JWST/ PWAD 465	Literature of Atrocity: The Gulag and the Holocaust in the Soviet Union and Eastern Europe	3
GSSL 85	 First-Year Seminar: Children and War	3	GSSL 481	Grand Hotels and Empty Fields: Inventing Central Europe through Culture	3
GSSL 86	 First-Year Seminar: Literature and Madness ¹	3	ITAL 241	 The Renaissance Mind and Body	3
GSSL 87	 First-Year Seminar: Literature Confronting Totalitarianism	3	ITAL 242	Italy and Modernity: Culture in a Changing Country	3
GSSL 88H	 First-Year Seminar: Gender and Fiction in Central and Eastern Europe	3	JAPN 160	 Introduction to Japanese Literature in Translation	3
GSSL 212	 "Game of Thrones" and the Worlds of the European Middle Ages	3	JAPN 162	 Japanese Popular Culture	3
GSSL/RELI 218	Christianity and Islam in the Middle Ages	3	JAPN 231/ HIST 271	 Ancient and Medieval Japanese History and Culture	3
GSSL/JWST 225	 Popular and Pious: Early Modern Jewish Literature	3	JAPN 246/ HIST 247	 Early Modern Japanese History and Culture	3
GSSL 254	The Division of Germany, Reunification, and Conflict with Russia ^H	3	JAPN 277	 Empire of Sex: Eroticism, Mass Culture, and Geopolitics in Japan, 1945-Present	3
GSSL 255	Germany and Cold War: Occupation, Division, Reunification, Renewed Conflict with Russia (1945-Today)	3	JAPN 375	 The Culture of Modern, Imperial Japan, 1900-1945	3
GSSL 259	 Ideology and Aesthetics: Marxism and Literature	3	JAPN 482	 Embodying Japan: The Cultures of Beauty, Sports, and Medicine in Japan	3
GSSL 260	From Berlin to Budapest: Literature, Film, and Culture of Central Europe	3	KOR 150	 History, Memory, and Reality in Contemporary Korea	3
GSSL/JWST 268	Cultural Trends in Post-Communist Central Europe: Search for Identity, Importance of Jewish Voices	3	KOR 151	 Education and Social Changes in Contemporary Korea	3
			KOR/CMPL 232	 Imagining the City in Modern Korea: Text, Image, Space	3
			KOR/CMPL/ WGST 237	 Rebel, Lover, Martyr: Gender and Sexuality in North and South Korean Screen Cultures	3
			KOR 327	 Korean Diasporas	3
			KOR 346/ CMPL 246	 Body Politics in Modern Korean Literature ^H	3

KOR 447/ CMPL 547	 Documenting Diasporas: Korean Diasporas in Films and Documentaries	3	PSYC 438	 Research Topics in the Psychology of Language	3
LTAM 101	 Introduction to Latin American Studies	3	RELI/JWST 211	 Classical Hebrew I: A Linguistic Introduction to the Hebrew Bible	3
LTAM 314	 Law and Society in Latin America	3	ROML 229	 Literature in the Romance Languages ^H	3
LTAM 350	 The United States and Latin America	3	RUSS 270	 Crimes and Punishments: Russian Literature of the 19th Century	3
LING 101	 Introduction to Language ^H	3	RUSS 275	 Russian Fairy Tale	3
LING 165	 Exploring the World's Languages	3	RUSS 276	 Mystery and Suspense in Russian Literature	3
LING 202	 Linguistic Variation and Language Change	3	RUSS 277	 Love, Sex, and Marriage in Soviet Culture	3
LING/ASIA 260	 Languages of Southeast Asia	3	RUSS 278	 Russian and Soviet Science Fiction	3
LING/ANTH/ WGST 302	 Language and Power	3	RUSS 279	 Sunstrokes in Dark Alleys: Russian Short Stories	3
LING 304	 Introduction to Discourse	3	RUSS 280	 Russian Villains, Western Screens: Ethno- Cultural Stereotypes on Page and Stage, in Movies and Minds	3
LING 305	 Race against Time: Language Revitalization	3	RUSS/CMPL 282	 Russian Literature in World Cinema	3
LING/AAAD 335	 Structure of African American English	3	RUSS 445	 19th Century Russian Literature and Culture	3
LING 427	 Morphology	3	RUSS 450	 The Russian Absurd: Text, Stage, Screen	3
LING 558	 Ancient Mayan Hieroglyphs	3	RUSS 455	 20th-Century Russian Literature and Culture	3
LING 560	 Mesoamerican Languages and Linguistics	3	RUSS 464	 Dostoevsky	3
LING 561	 Native Languages of the Americas	3	RUSS 465	 Chekhov	3
LING/RUSS 562	 Structure of Russian	3	RUSS 471	 Gogol	3
LING/JAPN 563	 Structure of Japanese	3	RUSS 477	 Wicked Desire: Vladimir Nabokov, Lolita, on Page and Screen	3
LING 573	 Linguistic Field Methods I	3	RUSS 479	 Tolstoy	3
PHIL/LING 145	 Language, Communication, and Human and Animal Minds ^H	3	RUSS/JWST 480	 Russian-Soviet Jewish Culture: Lofty Dreams and Stark Realities ^H	3
PHIL 411	 Aristotle	3	RUSS/EURO/ WGST 486	 Exploration of Russian "Women's Prose" and Svetlana Alexievich (Nobel Prize in Literature 2015)	3
PHIL 412	 Plato	3	SLAV 248	 Childhood and Adolescence in Slavic Literature ^H	3
PHIL 423	 Kant's Theoretical Philosophy	3	SLAV 277	 Songs of Liberty, Light, and Resilience: Ukrainian Literature Today	3
PHIL 424	 Kant's Practical Philosophy	3	SLAV/JWST 464	 Imagined Jews: Jewish Themes in Polish and Russian Literature	3
PHIL 426	 Nietzsche	3	SLAV/JWST 469	 Coming to America: The Slavic Immigrant Experience in Literature	3
PLSH 280	 The Modern Cinema of Poland	3	SLAV 470	 20th-Century Russian and Polish Theater	3
PLSH 411	 19th-Century Polish Literature and Culture	3	SPAN 170	 Reading América Now. Fourteen Spanish American Prose Fictions Written While You've Been Around (added 12-6-2024)	3
PLSH/JWST 412	 From Communism to Capitalism: 20th- and 21st- Century Polish Literature and Culture	3	SPHS 401	 American Sign Language I	3
POLI 270	 Classical Political Thought ^H	3	SPHS 402	 American Sign Language II	3
PORT 316	 Brazilian Performance in Music and Dance: Capoeira	3	SPHS 530	 Introduction to Phonetics	3
PORT 370	 Modern Brazil through Literature and Film in Translation	3	SPHS 540	 Speech Science	3
PORT 375	 Portuguese and Brazilian Fiction in Translation	3			
PORT 382	 Women Writers: Brazil and Beyond	3			
PORT 385	 Verbal Art, Identities, and Nation in Portuguese- Speaking Africa	3			
PORT 387	 Brazilian Religious Movements through Film and Literature	3			
PORT 388	 Portuguese, Brazilian, and African Identity in Film	3			
PSYC 58	 First-Year Seminar: The Psychology of Mental States and Language Use ^H	3			
PSYC 432	 Psychology of Language	3			












^H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

















F FY-Launch class sections may be available. A FY-Launch section fulfills the same requirements as a standard section of that course, but also fulfills the FY-SEMINAR/FY-LAUNCH First-Year Foundations requirement. Students can search for FY-Launch sections in ConnectCarolina using the FY-LAUNCH attribute.

¹ Course renumbered effective fall 2024.

Additional Course Lists for Making Connections Quantitative Substitution Approved Students

Quantitative Intensive (QI) Course List

Code	Title	Hours
ANTH 411	 Laboratory Methods in Archaeology ^H	3
ANTH 680	 Quantitative Methods in Archaeology	3
ASTR 63	 First-Year Seminar: Catastrophe and Chaos: Unpredictable Physics ^H	3
ASTR 390	Research and Special Topics for Juniors and Seniors	1-12
BIOL 201	Ecology and Evolution ^H	4
BIOL 226	Mathematical Methods for Quantitative Biology	3
BIOL 534	Mathematical Modeling in the Life Sciences	3
BIOL 553	Mathematical and Computational Models in Biology	3
COMP 50	 First-Year Seminar: Everyday Computing ^H	3
COMP 60	 First-Year Seminar: Robotics with LEGO® ^H	3
COMP 665	Images, Graphics, and Vision	3
ECON 400	 Introduction to Data Science and Econometrics ^H	4
ECON 470	 Econometrics ^H	3
ECON 485	Economics of Sports	3
ECON 550	 Advanced Health Econometrics	3
ECON 575	Applied Time Series Analysis and Forecasting	3
EMES 51	 First-Year Seminar: Global Warming: Science, Social Impacts, Solutions	3
EMES 203	 Data Analysis for Earth, Marine, and Environmental Sciences	3
EMES 435	Principles of Environmental Consulting: Mechanics of Groundwater Flow	3
EMES 436	Geochemistry of Natural Waters	3
EMES 460	Fluid Dynamics of the Environment	3
EMES 470	Estuarine and Coastal Marine Science	4
EMES 561	Time Series and Spatial Data Analysis	3
EMES 655	Recent Advances in Non-Traditional Stable Isotope Geochemistry	3
ENEC 222	Estuarine and Coastal Marine Science	4
ENEC 435	Principles of Environmental Consulting: Mechanics of Groundwater Flow	3
ENEC 473	 Business and Finance Fundamentals for Change Makers	3

ENVR 205	Engineering Tools for Environmental Problem Solving	3
EURO 285	Applied Experimental Research: Politics in the US and Europe	3
EXSS 273	 Research in Exercise and Sport Science	3
GEOG 215	 Introduction to Spatial Data Science	3
GEOG 410	 Modeling of Environmental Systems	3
GEOG 567	 Geospatial Data Analysis with Google Earth Engine	3
LING 333	 Human Language and Animal Communication Systems	3
LING 540	 Mathematical Linguistics	3
MATH 51	 First-Year Seminar: 'Fish Gotta Swim, Birds Gotta Fly': The Mathematics and the Mechanics of Moving ^H	3
MATH 62	 First-Year Seminar: Combinatorics ^H	3
MATH 65	 First-Year Seminar: Colliding Balls and Springs: The Microstructure of How Materials Behave	3
MATH 68	 First-Year Seminar: The Mathematics of Voting	3
MATH 69	 First-Year Seminar: Unfolding Infinity: Mathematical Origami and Fractal Symmetry	3
MATH 70	 First-Year Seminar: Topology and Symmetry	3
MATH 232	 Calculus of Functions of One Variable II ^H	4
MATH 233	 Calculus of Functions of Several Variables ^H	4
MATH 307	Revisiting Real Numbers and Algebra	3
MATH 347	Linear Algebra for Applications	3
MATH 381	Discrete Mathematics ^H	3
MATH 383	First Course in Differential Equations ^H	3
MATH 521	Advanced Calculus I ^H	3
MATH 522	Advanced Calculus II ^H	3
MATH 523	Functions of a Complex Variable with Applications	3
MATH 524	Elementary Differential Equations	3
MATH 528	Mathematical Methods for the Physical Sciences I	3
MATH 529	Mathematical Methods for the Physical Sciences II	3
MATH 533	Elementary Theory of Numbers	3
MATH 534	Elements of Modern Algebra	3
MATH 535	Introduction to Probability	3
MATH 548	Combinatorial Mathematics	3
MATH 550	Topology	3
MATH 551	Euclidean and Non-Euclidean Geometries	3
MATH 553	Mathematical and Computational Models in Biology	3
MATH 555	Introduction to Dynamics	3
MATH 564	Mathematical Modeling in the Life Sciences	3
MATH 566	Introduction to Numerical Analysis	3
MATH 577	Linear Algebra	3
MATH 578	Algebraic Structures	3
MEJO 379	 Advertising and Public Relations Research	3
MEJO 570	 Data Driven Journalism	3
MUSC 131	Tonal Theory I ^H	3














PHIL 65	First-Year Seminar: Philosophy through Mathematics	3
PHIL 355	Intermediate Mathematical Logic	3
PHIL 357	Induction, Probability, and Confirmation	3
PHIL 456	Advanced Symbolic Logic	3
PHYS 55	First-Year Seminar: Introduction to Mechatronics	4
PHYS 63	First-Year Seminar: Catastrophe and Chaos: Unpredictable Physics ^H	3
PHYS 114	General Physics I: For Students of the Life Sciences	4
PHYS 115	General Physics II: For Students of the Life Sciences	4
PHYS 118	Introductory Calculus-based Mechanics and Relativity ^H	4
PHYS 119	Introductory Calculus-based Electromagnetism and Quanta ^H	4
PHYS 131	Energy: Physical Principles and the Quest for Alternatives to Dwindling Oil and Gas	3
PLCY 460	Quantitative Analysis for Public Policy ^H	4
POLI 209	Analyzing Public Opinion ^H	3
POLI 281	Data in Politics I: An Introduction	3
POLI 285	Applied Experimental Research: Politics in the US and Europe	3
POLI 287	Strategy and International Relations	3
POLI 288	Strategy and Politics	3
POLI 381	Data in Politics II: Frontiers and Applications	3
POLI 417	Advanced Political Psychology ^H	3
POLI 488	Game Theory	3
PSYC 210	Statistical Principles of Psychological Research ^H	3
PSYC 310	Applied Statistical Methods in the Psychological Sciences	3
PSYC 525	Psychological Archival Data Science	3
PSYC 528	Clinical Research: Design, Analyze, Disseminate	3
PSYC 530	Design and Interpretation of Psychological Research	3
PSYC 531	Tests and Measurement	3
PSYC 534	Introduction to Computational Statistics	3
PSYC 535	Programming for Psychologists: Computational Tools for Psychological Research	3
PWAD 287	Strategy and International Relations	3
SOCI 252	Data Analysis	3
STOR 52	First-Year Seminar: Decisions, Decisions, Decisions	3
STOR 53	FYS: Networks: Degrees of Separation and Other Phenomena Relating to Connected Systems	3
STOR 54	First-Year Seminar: Adventures in Statistics	3

STOR 55	First-Year Seminar: Risk and Uncertainty in the Real World	3
STOR 56	First-Year Seminar: The Art and Science of Decision Making in War and Peace	3
STOR 60	First-Year Seminar: Statistical Decision-Making Concepts	3
STOR 61	First-Year Seminar: Statistics for Environmental Change	3
STOR 62	First-Year Seminar: Probability and Paradoxes	3
STOR 63	FYS: Statistics, Biostatistics, and Bioinformatics: An Introduction to the Ongoing Evolution	3
STOR 64	First-Year Seminar: A Random Walk down Wall Street	3
STOR 66	First-Year Seminar: Visualizing Data	3
STOR 72	First-Year Seminar: Unlocking the Genetic Code	3
STOR 305	Introduction to Decision Analytics	3
STOR 320	Introduction to Data Science	4
STOR 435	Introduction to Probability	3
STOR 471	Long-Term Actuarial Models	3

^H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

Focus Capacity: Quantitative Reasoning (FC-QUANT) Course List

Code	Title	Hours
ANTH 520	Linguistic Phonetics	3
ANTH 680	Quantitative Methods in Archaeology	3
ASTR 100	Understanding the Universe	3
ASTR 101	Introduction to Astronomy: The Solar System ^H	3
ASTR 102	Introduction to Astronomy: Stars, Galaxies & Cosmology ^H	3
ASTR 103	Alien Life in the Universe	3
BIOL 75	First-Year Seminar: Biodiversity and Citizen Science ^H	3
BIOL 115	Reasoning with Data: Navigating a Quantitative World	3
BIOL 222	Introduction to Programming with Biological Data	3
BIOL 465	Global Biodiversity and Macroecology	3
BIOL 544L	Laboratory in Diseases of the Cytoskeleton	3
CLAR 270	Quantifying the Past: Big Data and Big Questions in Classical Archaeology	3
COMP 110	Introduction to Programming and Data Science ^H	3
COMP 283	Discrete Structures ^H	3
COMP 550	Algorithms and Analysis	3

DATA 110	 Introduction to Data Science	3	MATH 210	 Mathematical Tools for Data Science	3
ECON 400	 Introduction to Data Science and Econometrics H	4	MATH 231	 Calculus of Functions of One Variable I ^H	4
ECON 445	 Industrial Organization	3	MATH 232	 Calculus of Functions of One Variable II ^H	4
ECON 470	 Econometrics ^H	3	MATH 233	 Calculus of Functions of Several Variables ^H	4
ECON 571	 Advanced Econometrics	3	MATH 235	 Mathematics for Data Science	4
EMES 203	 Data Analysis for Earth, Marine, and Environmental Sciences	3	MEJO 379	 Advertising and Public Relations Research	3
ENEC 203	 Introduction to Environmental Science Problem Solving	3	MEJO 479	 Market Intelligence ^H	3
ENEC 465	 Global Biodiversity and Macroecology	3	MEJO 570	 Data Driven Journalism	3
ENEC 473	 Business and Finance Fundamentals for Change Makers	3	NAVS 301	 Naval Ships Engineering Systems	3
ENGL 482	 Metadata, Mark-up, and Mapping: Understanding the Rhetoric of Digital Humanities	3	NAVS 302	 Naval Weapons Systems	3
ENVR 135	 Environment-ECUIPP Lab: Connecting with communities through environmental research for Public Health	3	NSCI 419	 Behavioral Endocrinology	3
ENVR 335	 Adv Environ-ECUIPP Lab: Connecting with Communities Through Environmental Research for PH Protection	3	PHIL 105	 How to Reason and Argue: An Introduction to Critical Thinking	3
GEOG 215	 Introduction to Spatial Data Science	3	PHIL 155	 Truth and Proof: Introduction to Mathematical Logic ^H	3
GEOG 370	 Introduction to Geographic Information	3	PHIL 157	 Logic and Decision Theory ^H	3
GEOG 410	 Modeling of Environmental Systems	3	PHIL 251	 Inductive Logic and the Scientific Method	3
GEOG 456	 Geovisualizing Change	3	PHIL 357	 Induction, Probability, and Confirmation	3
GEOG 477	 Introduction to Remote Sensing of the Environment	3	PHIL 455	 Symbolic Logic	3
GEOG 567	 Geospatial Data Analysis with Google Earth Engine	3	PHIL 456	 Advanced Symbolic Logic	3
GEOG 577	 Advanced Remote Sensing	3	PHYS 55	 First-Year Seminar: Introduction to Mechatronics	4
GEOG 591	 Applied Issues in Geographic Information Systems	3	PHYS 101	 Basic Concepts of Physics	4
GEOG 592	 Geographic Information Science Programming	3	PHYS 114	 General Physics I: For Students of the Life Sciences	4
LING 333	 Human Language and Animal Communication Systems	3	PHYS 115	 General Physics II: For Students of the Life Sciences	4
LING 401	 Language and Computers	3	PHYS 118	 Introductory Calculus-based Mechanics and Relativity ^H	4
LING 520	 Linguistic Phonetics	3	PHYS 119	 Introductory Calculus-based Electromagnetism and Quanta ^H	4
LING 540	 Mathematical Linguistics	3	PHYS 231	 Physical Computing ^H	4
LING 558	 Ancient Mayan Hieroglyphs	3	PLAN 363	 Personal Finance, Wealth Building, and Public Policy	3
MATH 115	 Reasoning with Data: Navigating a Quantitative World	3	PLAN 364	 Personal Finance II: Investing and Public Policy	3
MATH 116	 Intuitive Calculus	3	PLCY 460	 Quantitative Analysis for Public Policy ^H	4
MATH 117	 Aspects of Finite Mathematics	3	PLCY 505	 Data Science for Public Policy and Decision Making	4
MATH 118	 Aspects of Modern Mathematics	3	POLI 209	 Analyzing Public Opinion ^H	3
MATH 119	 Introduction to Mathematical Modeling	3	POLI 281	 Data in Politics I: An Introduction	3
MATH 130	 Precalculus Mathematics	3	POLI 287	 Strategy and International Relations	3
MATH 152	 Calculus for Business and Social Sciences	3	POLI 288	 Strategy and Politics	3
			POLI 439	 Analyzing European Public Opinion	3
			PSYC 115	 Reasoning with Data: Navigating a Quantitative World	3

PSYC 210	 Statistical Principles of Psychological Research H	3
PSYC 535	 Programming for Psychologists: Computational Tools for Psychological Research	3
PWAD 287	 Strategy and International Relations	3
SOCI 180	 Introduction to Global Population Health	3
SOCI 251	 Research Methods	3
SOCI 252	 Data Analysis	3
STOR 113	 Decision Models for Business and Economics	3
STOR 115	 Reasoning with Data: Navigating a Quantitative World	3
STOR 120	 Foundations of Statistics and Data Science	4
STOR 151	 Introduction to Data Analysis	3
STOR 155	 Introduction to Data Models and Inference	3
STOR 215	 Foundations of Decision Sciences	3
STOR 235	 Mathematics for Data Science	4
STOR 305	 Introduction to Decision Analytics	3
STOR 315	 Discrete Mathematics for Data Science	4
STOR 320	 Introduction to Data Science	4

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