

## General Education

Norwich University General Education Goals are designed to provide students with the intellectual tools to experience, explore and master new topics throughout a period of life-long learning. To this end, at least forty credit hours in every major must be dedicated to basic literacy in English, mathematics, humanities, social sciences, and science outside the area of major concentration. Required 100 level courses in English, language, and mathematics should be completed by the end of the sophomore year. If a student fails to meet this requirement, he/she must enroll for these courses first semester junior year.

Students may not combine catalogs to meet graduation requirements; the catalog used must be the same for the requirements of majors, minors and General Education.

### Goal 1: Critical Reading, Writing and Research

Students will be able to write with clarity and precision, and read with comprehension. They will be able to exercise the skills of independent inquiry, that is, to find, analyze, synthesize, and critically evaluate information in the respective discipline.

This objective will be met beginning with EN 101 Composition and Literature I and EN 102 Composition and Literature II or approved equivalent; be reinforced by critical reading, writing, and research throughout the curriculum, and culminate in a capstone course in each major. Wherever graded written work is required, part of the grade must be used to evaluate clarity and precision, and to reinforce the writing mechanics learned in EN 101 and EN 102.

#### Outcomes: Students will be able to

- Construct a clear thesis supported by evidence from primary and secondary sources
- Develop knowledge of linguistic structures, including grammar, punctuation, and spelling, through practice in composing and revising
- Demonstrate conventions for structure, paragraphing, tone, and mechanics
- Apply appropriate citation styles

#### Courses that meet Goal 1:

EN 101	Composition and Literature I	3
EN 102	Composition and Literature II	3

### Goal 2: Mathematics and Quantitative Reasoning

Students will achieve an understanding of mathematical and quantitative reasoning and its place in today's world. They should understand how to construct mathematical models as a means of formulating problems and be able to apply appropriate logical, quantitative, and technological methods to solve problems. Students must complete two mathematics courses.

#### Outcomes: Students will be able to

- Organize, analyze, and interpret quantitative information
- Select and apply a mathematical model, including the appropriate quantitative methods and/or technology, to find a solution to a problem motivated by a real-world situation
- Communicate mathematical reasoning clearly and coherently

#### Courses that meet Goal 2:

MA 101	Mathematics: A Liberal Art	3
MA 102	Mathematics: A Liberal Art	3
MA 107	Precalculus Mathematics	4
MA 108	Applied Calculus	4
MA 121	Calculus I	4
MA 122	Calculus II	4
MA 161	Mathematics for Elementary School Teachers II	3
MA 212	Finite Mathematics	3
MA 220	Geometry in Action	3
MA 223	Calculus III	4
MA 224	Differential Equations	4
MA 232	Elementary Statistics	3
MA 235	Clinical Mathematical Methods	3
MA 240	Introduction to Number Theory and Cryptology	3
MA 241	Mathematical Computation and Modeling	3
MA 303	Advanced Calculus I	3
MA 304	Advanced Calculus II	3
MA 306	Discrete Mathematics	3
MA 308	Modern Geometry	3
MA 309	Algebraic Structures	3
MA 310	Linear Algebra	3
MA 311	Statistical Methodology	3
MA 312	Statistical Methodology II	3
MA 318	Cryptology	3
MA 321	Financial Mathematics	3
MA 360	Teaching Mathematics at the Elementary - Middle School Level	3

MA 370	Introduction to Operations Research	3
MA 380	Theory of Computation	3
MA 390	Numerical Linear Algebra and Analysis	3
MA 399	Mathematical Problem Solving	3
MA 405	Complex Analysis	3
MA 407	Vector Analysis	3
MA 411	Senior Seminars	3
MA 412	Senior Seminars	3
MA 421	Number Theory	3
MA 499	Mathematics Internship	3

### Goal 3: Human Expression in Literature, History, Arts, and Humanities

Students will possess a knowledge of, and appreciation for, the variety of human expression found in cultures and civilizations of the United States and the world. This will be achieved by requiring students to take one course in history, one course in literature, and one course in arts and humanities.

#### Outcomes: Students will be able to

- Demonstrate a working knowledge of the vocabulary and methods in the discipline of the course
- Locate, assess, and utilize primary and secondary sources
- Demonstrate knowledge and understanding of the variety of human expression
- Demonstrate a working knowledge of the relevant discipline's authors and texts, philosophical issues, historical processes and contingencies, or recognized creative works within their geographical, cultural, and/or historical contexts

#### Courses that meet Goal 3:

##### Literature Courses

EN 201	World Literature I	3
EN 202	World Literature II	3
EN 210	Modern Short Story	3
EN 220	Children's Literature	3
EN 225	Survey of British Literature I	3
EN 226	Survey of British Literature II	3
EN 227	Survey of American Literature I	3
EN 228	Survey of American Literature II	3
EN 244	The Literature of Leadership	3
EN 245	Science Fiction Literature	3
EN 250	Crime in Literature	3
EN 251	Literature of the Sea	3
EN 253	Approaches to Shakespeare	3
EN 270	Military Literature	3
EN 272	Veterans' Literature and Writing	3
EN 373	Major Author	3
EN 278	Writing for the Web	3
EN 282	Literary Methods	3
EN 292	American Ethnic Literature & Cultural Literature	3
EN 299	Topics in English Studies	3
EN 320	Literature of the Developing World	3
EN 322	Topics in World Literatures	3
EN 370	Topics in British Literature	3
EN 390	Topics in American Literature	3
EN 399	Topics in English Studies	3
EN 420	Thematic Seminar-Literature	3
EN 425	Directed Study In Literature	3
EN 450	Senior Seminar	3
FR 321	A Survey of French Literature I	3
FR 322	A Survey of French Literature II	3
FR 327	French Literature since 1900 I	3
FR 328	French Literature since 1900 II	3
FR 350	Topics Course	3
FR 415	Seminar: Topics in French Literature	3
GR 322	Survey of German Lit I: From the Beginnings to 1848	3
GR 324	Survey of German Literature II: 1848 to 1945	3
GR 326	Survey of German Literature III: 1945 to the Present	3
GR 350	Topics Course	3
GR 415	Seminar on a Topic in German Literature and Culture	3
GR 421	Reading and Research in German Literature or Civilization	3
SP 318	Spanish American Short Stories	3
SP 321	Introduction to the Literature of Spain I	3

SP 322	Introduction to the Literature of Spain II	3
SP 327	Hispano-American Literature I	3
SP 328	Hispano-American Literature II	3
SP 350	Topics Course	3
SP 354EN	El narco	3
SP 415	Seminar: Topics in Spanish or Latin-American Literature and Culture	3
SP 421	Reading and Research in Spanish or Latin-American Literature and Culture	3

**History Courses**

HI 107	The History of Civilization I	3
HI 108	The History of Civilization II	3
HI 121	American History Survey I	3
HI 122	American History Survey II	3
HI 201	Ancient Greece and Rome	3
HI 202	The Middle Ages: Europe 500 - 1500	3
HI 211	Early East Asian Civilizations	3
HI 212	Modern East Asian Civilizations	3
HI 214	History of the Middle East	3
HI 215	Vermont Regional Material Culture	3
HI 218	Survey of Sub-Sahara Africa	3
HI 223	Europe's Age of Revolution. 1500 -1800	3
HI 224	Modern European History	3
HI 227	Modern British History, 1688 - Present	3
HI 228	Norwich University History	3
HI 235	Military History I	3
HI 236	Military History II	3
HI 260	Topics in History	3
HI 303	Colloquium in Ancient History	3
HI 304	Colloquium in Medieval History	3
HI 315	Modern China	3
HI 317	Modern Japan	3
HI 319	Colloquium in Chinese History	3
HI 321	Reformation Europe	3
HI 322	Colloquium in Early Modern European History	3
HI 326	Nazi Germany and the Holocaust	3
HI 329	Modern Russian History, 1917 to the Present	3
HI 331	The Colonial Period of American History	3
HI 332	The American Revolution	3
HI 333	Colloquium in Early American History	3
HI 334	The Citizen-Soldier in American History	3
HI 335	20th Century U.S. History	3
HI 338	U.S. Diplomatic History, 1776-1914	3
HI 339	U.S. Diplomatic History, 1914-present	3
HI 340	Colloquium in Twentieth Century United States History	3
HI 341	U.S. Civil War Era, 1848-1877	3
HI 345	Colloquium in the History of the Middle East & Northeast Africa	3
HI 355	Colloquium in Modern Military History	3
HI 360	Topics in U.S. History	3
HI 361	Topics in Modern European History	3
HI 362	Topics in Pre Modern History	3
HI 363	Topics in Non-Western History	3
HI 371	Nation-Building	3
HI 372	Military History of the United States I, 1775-1902	3
HI 373	Military History of the United States II, 1902-Present	3
HI 400	Independent Study	3
HI 405	History Internship	3-12
HI 430	Capstone Seminar in United States History	3
HI 431	Capstone Seminar in Modern European History	3
HI 432	Capstone Seminar in Pre-Modern History	3
HI 433	Seminar in Non-Western History	3
HI 490	Honors in History I	3
HI 491	Honors in History II	3

**Arts & Humanities Courses**

CM 109	Introduction to Mass Media	3
CM 261	Interpersonal Communications	3
CM 335	Television Criticism	3
CM 436	Communications Law and Ethics	3
CN 111	Beginning Chinese I	6

CN 112	Beginning Chinese II	6
CN 205	Intermediate Chinese I	3
CN 206	Intermediate Chinese II	3
CN 301	Advanced Chinese I	3
CN 302	Advanced Chinese II	3
CN 311	Media Chinese	3
CN 321	Chinese Literature, Culture and Society I 1911-1949	3
CN 322	Chinese Literature, Culture and Society II 1949-Present	3
CN 331	Advanced Chinese Composition and Conversation (I)	3
CN 332	Advanced Chinese Composition and Conversation (II)	3
CN 365	Chinese Literature, Culture and Society III: 221 BCE-1911	3
CN 366	Chinese Literature, Culture and Society IV: Beginning-221 BCE	3
CN 399	Topics	3
EN 203	Advanced Composition	3
EN 239	Introduction to Theater	3
EN 240	Technical Aspects of Theatrical Design	3
EN 241	Acting and Directing	3
EN 242	Play Production	1-3
EN 274	Introduction to Creative Writing	3
EN 276	Environmental Writing	3
EN 307	The History of the Motion Picture	3
EN 308	The Motion Picture Director	3
EN 310	The Art of the Motion Picture	3
EN 311	American Film Comedy	3
EN 350	History of the English Language	3
EN 362	Rhetorical Criticism	3
EN 364	Intermediate Creative Writing	3
Plus EN classes listed above under Literature		
FA 201	History/Theory of Architecture I	3
FA 202	History/Theory of Architecture II	3
FA 221	History of Visual Arts I: Prehistoric to 1350	3
FA 222	History of Visual Arts II: 1350 to the Modern Era	3
FA 240	History of American Art	3
FA 250	Topics in Art	3
FA 260	Art Appreciation	3
FA 308	History/Theory of Artchitectural III	3
FA 309	History/Theory of Architectural IV	3
FR 111	Beginning French I	6
FR 112	Beginning French II	6
FR 150	Topics Course	3
FR 150EN	Topics Course in English	3
FR 205	Intermediate French I	3
FR 206	Intermediate French II	3
FR 250	Topics Course	3
FR 250EN	Topics Course in English	3
FR 311	Advanced French I	3
FR 312	Advanced French II	3
FR 331	Advanced French Composition, Conversation, and Translation I	3
FR 332	Advanced French Composition, Conversation, and Translation II	3
FR 350EN	Topics Course in English	3
FR 421	Reading and Research on a Topic in French Literature and Civilization	3
Plus FR courses listed above under Literature		
GR 111	Beginning German I	6
GR 112	Beginning German II	6
GR 150	Topics Course	3
GR 150EN	Topics Course in English	3
GR 205	Intermediate German I	3
GR 206	Intermediate German II	3
GR 250	Topics Course	3
GR 250EN	Topics Course in English	3
GR 321	Survey of German Culture I: From the Beginnings to 1848	3
GR 323	Survey of German Culture II: 1848 to 1945	3
GR 325	Survey of German Culture III: 1945 to the Present	3
GR 350EN	Topics Course in English	3
Plus GR courses listed above under Literature		
MU 101	Music Appreciation	3
MU 271	History of Jazz	3

PH 210	Foundations of Western Thought I: The Ancient World	3
PH 230	Logic	3
PH 303	Survey of Ethics	3
PH 305	Foundations of Western Thought II: The Middle Ages	3
PH 306	Foundations of Western Thought III: 17th & 18th Centuries	3
PH 307	Foundations of Western Thought IV: 19th and 20th Centuries	3
PH 322	Business Ethics	3
PH 323	Environmental Ethics	3
PH 324	Criminal Justice Ethics	3
PH 340	Philosophy of Non-Violence	3
PH 350	Medical Ethics	3
PH 360	Philosophy of Science	3
PH 400	Reading and Research	3
SA 103	Introduction to Drawing	3
SA 104	Introduction to Visual Design	3
SA 105	Introduction to Painting	3
SA 106	Introduction to Printmaking	3
SA 107	Introduction to Photography	3
SA 200	Intermediate Studio	3
SA 205	Water Media	3
SA 210	The Portrait	3
SA 265	Life Drawing	3
SA 299	Life Drawing	3
SA 300	Advanced Studio	3
SP 111	Beginning Spanish I	6
SP 112	Beginning Spanish II	6
SP 150	Topics Course	3
SP 150EN	Topics Course in English	3
SP 205	Intermediate Spanish I	3
SP 206	Intermediate Spanish II	3
SP 250	Topics Course	3
SP 250EN	Topics Course in English	3
SP 301	Advanced Spanish I	3
SP 302	Advanced Spanish II	3
SP 331	Advanced Spanish Composition and Conversation I	3
SP 332	Advanced Spanish Composition and Conversation II	3
SP 350EN	Topics Course in English	3
SP 356	Cinema of Spain	3
Plus and SP classes listed above under Literature		

#### Goal 4: Natural Sciences

Students will gain a basic level of literacy in current scientific knowledge and theories and develop an appreciation for the natural world, in part through classroom and hands-on laboratory experiences by completing two courses in laboratory science. This will expose students to the scientific method and provide the critical thinking skills, necessary to make intelligent, well informed decisions.

#### Outcomes: Students will be able to

- Demonstrate an understanding of the process involved in applying the scientific method (gathering data, analysis, and interpretation)
- Apply basic scientific knowledge and logic in evaluating the strengths and weaknesses of an argument Apply basic scientific knowledge and logic in the decision-making process
- Display a basic understanding of one or more fundamental scientific systems or theories

#### Courses that meet Goal 4:

BI 101	Principles of Biology I	4
BI 102	Principles of Biology II	4
BI 122	Concepts in Biology	4
BI 201	Comparative Vertebrate Anatomy	4
BI 216	Human Anatomy & Physiology II	4
BI 240	Environmental and Food Microbiology	4
BI 253	Foods and Nutrition	4
BI 260	Ornithology	4
BI 275	Environmental Biology	4
BI 302	Embryology	4
BI 304	Physiology	4
BI 305	Biomedical Techniques	4
BI 316	Plant Taxonomy	4
BI 325	Invertebrate Zoology	4

BI 326	Natural History of the Vertebrates	4
BI 330	Immunology	4
BI 341	Plant Anatomy	4
BI 351	Dendrology and Silvics	4
BI 364	Pathophysiology in Sports Medicine	4
BI 370	Introduction to Neuroscience	4
BI 399	Topics in Biology	4
BI 415	Neuroanatomy	4
BI 418	Medical Microbiology	4
BI 420	Diseases of the Nervous System	4
BI 424	Woodland Ecology and Management	4
BI 440	Reading and Research	3,4
BI 450	Internship in Biology	3,4
CH 100	Introduction to Forensic Science	4
CH 101	Introduction to General Chemistry	4
CH 102	Introduction to Organic and Biochemistry	4
CH 103	General Chemistry I	4
CH 104	General Chemistry II	4
CH 204	Quantitative Analysis	4
CH 205	Survey of Organic Chemistry	4
CH 225	Organic Chemistry I	4
CH 226	Organic Chemistry II	4
CH 324	Biochemistry I	4
CH 325	Biochemistry II	4
ES 270	Fundamentals of Environmental Science	4
GL 110	Introduction to Geology	4
GL 111	Oceanography	4
GL 156	Introduction to Earth Evolution	4
GL 199	Geology Elective	4
GL 253	Geomorphology	4
GL 257	Sedimentation	4
GL 258	Stratigraphy and Tectonics	4
GL 260	Projects in Geology	1-4
GL 261	Field Geology	4
GL 262	Structural Geology	4
GL 263	Mineralogy	4
GL 264	Petrology	4
GL 265	Glacial Geology and Paleoclimate	4
ID 110	Ecology and Geology of the Connecticut River Valley	4
PS 107	Introductory Solar System Astronomy	4
PS 108	Stellar and Galactic Astronomy	4
PS 201	General Physics I	4
PS 202	General Physics II	4
PS 211	University Physics I	4
PS 212	University Physics II	4

### Goal 5: Individual, Society, and Social Structures

Students will demonstrate an understanding of the patterns of human behavior and social structures, their related opportunities, problems, and issues. This will be accomplished by completing one course in economics, political science, psychology, or sociology.

#### Outcomes: Students will be able to

- Identify factors that shape human behavior
- Discuss factors that shape social structures
- Articulate how the factors, determinants, and dynamics found in human behavior and social structures present problems or opportunities

#### Courses that meet Goal 5:

EC 106	The Structure and Operation of the World Economy	3
EC 201	Principles of Economics (Macro)	3
EC 202	Principles of Economics (Micro)	3
EC 300	Topics in Economic History	3
EC 301	Intermediate Price Theory	3
EC 302	National Income Analysis	3
EC 304	Labor Economics	3
EC 310	Money and Banking	3
EC 331	Business and Government	3
EC 403	Comparative Economic Systems	3



EC 406	Public Finance	3
EC 419	International Economics	3
EC 421	History of Economic Thought	3
EC 499	Seminar in Economics and Finance	3
PO 105	American Politics	3
PO 106	Introduction to Public Policy and Administration	3
PO 202	Introduction to Comparative Politics	3
PO 215	International Relations	3
PO 220	Research Methods	3
PO 300	Special Topics in Politics	3
PO 301	Special Topics in International Relations	3
PO 303	Political Philosophy	3
PO 305	Geopolitics	3
PO 310	European Politics	3
PO 312	The Presidency	3
PO 313	Political Parties and Interest Groups	3
PO 314	The Legislative Process	3
PO 315	Public Opinion and Political Behavior	3
PO 320	Topics in Area Studies	3
PO 321	U.S. Constitutional Law	3
PO 324	Civil Liberties	3
PO 330	American Citizenship	3
PO 331	State and Local Politics	3
PO 333	American Foreign Policy	3
PO 340	Revolution and Forces of Change	3
PO 348	Asian Politics	3
PO 400	Independent Study	3
PO 403	Internship	3-15
PO 405	International Organizations	3
PO 410	Capstone Seminar in Political Science	3
PO 412	War and Peace	3
PO 415	International Law	3
PO 490	Honors in Political Science	3
PO 491	Honors in Political Science	3
PO 499	Topics:	4
PY 210	Psychology of Leadership	3
PY 211	Introduction to Psychology	3
PY 212	Abnormal Psychology	3
PY 220	Developmental Psychology	3
PY 230	Biopsychology	3
PY 232	Engineering Psychology	3
PY 234	Forensic Psychology	3
PY 236	Cross-Cultural Psychology	3
PY 238	Political Psychology	3
PY 240	Introduction to Social Psychology	3
PY 241	Introduction to Personality Theory	3
PY 263	Perception	3
PY 299	Psychological Testing	3
PY 313	Experimental Psychology I	3
PY 314	Experimental Psychology II	3
PY 321	Organizational Psychology	3
PY 324	Adolescent Psychology	3
PY 344	Cognition	4
PY 350	Environmental Psychology	3
PY 352	Learning and Memory	4
PY 355	Psychology and the Law	3
PY 360	History and Systems of Psychology	3
PY 398	Thesis Preparation	3
PY 401	Senior Seminar	3
PY 402	Conference	0
PY 403	Presentation	0
PY 451	Thematic Seminar	3
PY 452	Thematic Seminar	3
PY 453	Internship	3-9
PY 471	Directed Readings	3
PY 498	Senior Thesis	3
SO 201	Introduction to Sociology	3

SO 202	Problems of Modern Society	3
SO 209	Methods of Social Science Research	4
SO 212	Cultural Anthropology	3
SO 214	Racial and Cultural Minorities	3
SO 216	Soc of Health, Wellness & Med	3
SO 300	Topics in Sociology	3
SO 316	Aging in Society	3
SO 320	Drugs and Society	3
SO 330	Military Sociology	3
SO 400	Independent Study	3
SO 402	Law and Society	3

### Goal 6: Ethics

Students must be able to think critically and make ethical decisions. Critical thinking begins with integration of course work from all general education areas and culminates in the capstone course in each major. Ethical decision-making begins with adherence to the honor code. Students must be able to recognize ethical issues and articulate ethical decisions. This will be achieved in a course that includes the requirement that students deal with ethical ambiguities and articulate ethical decisions.

#### Outcomes: Students will be able to

- Identify major ethical, conceptual, and factual issues and stakeholders
- Articulate ethical principles and whether they concur or are in conflict with one another
- Present an argument supporting a position, relying on relevant ethical principle(s), anticipating possible counter-arguments and consequences

#### Course that meet Goal 6:

AP 436	Project Delivery and Documentation	4
CM 436	Communications Law and Ethics	3
EG 043	Conference	0
EG 450	Professional Issues	3
MG 341	Business Law I	3
NS 422	Leadership and Ethics	3
PE 355	Coaching:Leadership in Sports	3
PE 406	Readings in Physical Education	3
PH 303	Survey of Ethics	3
PH 322	Business Ethics	3
PH 323	Environmental Ethics	3
PH 324	Criminal Justice Ethics	3
PH 340	Philosophy of Non-Violence	3
PH 350	Medical Ethics	3
PY 360	History and Systems of Psychology	3
SM 439	Leadership & Management in Sports Medicine	3
SSDA 400	The Capstone Project	6

### Goal 7: Capstone Experience

Students must develop a sound foundation in an area of major concentration by meeting curriculum requirements specified for each program in the catalog. Integration of reading, writing, speaking, and critical thinking skills within the area of expertise culminates in a capstone course in each major.

#### Course that meet Goal 7:

AP 412	Architectural Design VI	5
BI 401	Senior Seminar	3
CE 480	Senior Design	3
CH 413	Chemistry Seminar (AND)	1
CH 422	Chemical Synthesis and Examination II	3
CJ 410	Senior Seminar	3
CM 407	Senior Communications Seminar	3
CN 415	Senior Seminar	3
CS 420	Computer Science capstone I (AND)	3
CS 421	Computer Science capstone II	3
ED 425	Student Teaching	12
EE 491	Electrical System Design I	3
EM 480	Construction Management Practices	3
EN 450	Senior Seminar	3
ES 440	Research Project in Environmental Science	3
GL 440	Research Project in Geology	3
IA 456	Cyber Defense Practicum	3
HI 430	Capstone Seminar in United States History	3
HI 431	Capstone Seminar in Modern European History	3



HI 432	Capstone Seminar in Pre-Modern History	3
HI 433	Seminar in Non-Western History	3
HI 491	Honors in History II	3
IN 410	Seminar in International Studies	3
MA 411	Senior Seminars	3
MG 449	Administrative Policy and Strategy	3
ME 467	Mechanical Engineering Design I	3
NR 441	Nursing Capstone	4
PE 406	Readings in Physical Education	3
PO 410	Capstone Seminar in Political Science	3
PO 491	Honors in Political Science	3
PS 474	Senior Laboratory II	3
PY 401	Senior Seminar	3
SM 450	Capstone Experience I (AND)	1
SM 451	Capstone Experience II	1
SP 415	Seminar: Topics in Spanish or Latin-American Literature and Culture	3

### Goal 8: Leadership

Students must develop leadership knowledge skills through a course with emphasis on leadership. Such a course will ensure that students will acquire, demonstrate, and reflect upon leadership concepts and components.

#### Outcomes: Students will be able to

- Acquire and utilize the concepts of leadership
- Demonstrate awareness of various dimensions of leadership
- Reflect upon the experience of trying to achieve a shared goal in collaborative work

#### Course that meets Goal 8:

LD 101	Norwich Principles of Leadership Mastery	1
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