

General Education

General Education Courses

General Education courses may be chosen from the list below, assuming prerequisites are met. New courses added to the General Education list may be used for previous catalogs, as long as the previous catalog requirement allows selection of any course from the General Education course list rather than a specific course. Check with your program specific requirements before utilizing the list below.

Communication Theory and Skills (9 credits)

COM 122	English Composition	3
COM 219	Speech	3
COM 221	Technical Report Writing	3
COM 222	Business Communication	3
COM 223	Intelligence Writing	3
COM 420	Advanced Technical Communication I	1
COM 430	Advanced Technical Communication II	2
LCH 310	Speech in Chinese	3

Computer Science/Information Technology (3 credits)

CI 119	Introduction to Cyber Security for Non-Majors	3
CS 118	Fundamentals of Computer Programming	3
CS 125	Computer Science I	4
CS 213	Introduction to Computer Networks	3
CS 225	Computer Science II	4
CS 305	Database Systems and Data Mining	3
CS 332	Organization of Programming Languages	3
CS 455	Artificial Intelligence	3
EGR 115	Introduction to Computing for Engineers	3
IT 109	Introduction to Computers and Applications	3
IT 210	Web Page Authoring and Design	3

Mathematics (6 credits)

BA 222	Business Analytics Tools	3
MA 111	Pre-Calculus for Aviation	3
MA 112	Applied Calculus for Aviation	3
MA 120	Quantitative Methods I	3
MA 140	College Algebra	3
MA 142	Trigonometry	3
MA 143	Precalculus Essentials	3
MA 145	College Algebra and Trigonometry	5
MA 220	Quantitative Methods II	3
MA 222	Business Statistics	3
MA 225	Introduction to Discrete Structures	3
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical Geometry II	4
MA 243	Calculus and Analytical Geometry III	4
MA 314	Applied Linear Algebra & Statistics	3
MA 320	Decision Mathematics	3
MA 335	Introduction to Linear and Abstract Algebra	3
MA 341	Introduction to Mathematical Analysis	3
MA 345	Differential Equations and Matrix Methods	4
MA 348	Numerical Analysis I	3
MA 404	Statistics and Research Methods	3
MA 412	Probability and Statistics	3
MA 432	Linear Algebra	3
MA 433	Introduction to Optimization	3
MA 435	Linear and Abstract Algebra II	3
MA 441	Mathematical Methods for Engineering and Physics I	3

MA 442	Mathematical Methods for Engineering and Physics II	3
MA 443	Complex Variables	3
PSY 226	Statistics for Organizational Analysis and Research	3

Physical and Life Science (6 credits) - One course must include a lab.

BIO 120	Foundations of Biology I	3
BIO 120L	Foundations of Biology I Laboratory	1
BIO 121	Foundations of Biology II	3
BIO 121L	Foundations of Biology II Lab	1
BIO 142	Intro to Environmental Science	3
BIO 205	Plant Biology	3
BIO 205L	Plant Biology Lab	1
BIO 215	Genetics	3
BIO 215L	Genetics Laboratory	1
BIO 216	Microbiology	3
BIO 216L	Microbiology Laboratory	1
BIO 220	Wildlife Management	3
BIO 245	Natural History of the Region	3
BIO 245L	Natural History of the Region Laboratory	1
BIO 302	Instrumental Analysis and Trace Evidence	3
BIO 302L	Instrumental Analysis and Trace Evidence Lab	1
BIO 305	Human Anatomy and Physiology I	3
BIO 305L	Human Anatomy & Physiology Laboratory	1
BIO 306	Human Anatomy and Physiology II	3
BIO 306L	Human Anatomy and Physiology II Laboratory	1
BIO 309	Principles of Ecology	4
BIO 309L	Principles of Ecology Lab	0
BIO 312	Plant Identification	3
BIO 313	Riparian Ecology	3
BIO 315	Ornithology	3
BIO 315L	Ornithology Lab	1
BIO 318	Mammalogy	4
BIO 330	Environmental Consulting	3
BIO 403	Wildlife and Airports	3
BIO 405	Molecular and Cell Biology	3
BIO 405L	Molecular and Cell Biology Laboratory	1
BIO 406	Forensic DNA Analysis	3
BIO 406L	Forensic DNA Analysis Laboratory	1
BIO 420	Wildlife Management Techniques	3
BIO 444	Immunology	3
CHM 110	General Chemistry I	3
CHM 110L	General Chemistry I Laboratory	1
CHM 111	General Chemistry II	3
CHM 111L	General Chemistry II Laboratory	1
CHM 113	General Chemistry for Engineering	3
CHM 140	Chemistry for Engineers	4
CHM 210	Organic Chemistry I	3
CHM 210L	Organic Chemistry I Laboratory	1
CHM 211	Organic Chemistry II	3
CHM 211L	Organic Chemistry II Laboratory	1
CHM 310	Biochemistry	3
CHM 310L	Biochemistry Laboratory	1
GEO 210	Introduction to Geographic Information Systems	3
GEO 215	Introduction to Geoscience	3
GEO 310	Advanced Geographic Information Systems	3
GEO 350	Introduction to Remote Sensing with GIS	3

PSY 410	Personnel Selection and Assessment	3
PSY 412	Drugs, Society, and Crime	3
PSY 494	Tests and Measurements Theory	3
SIS 200	Introduction to the U.S. Legal System	3
SS 110	World History	3
SS 120	U.S. History	3
SS 130	History of Aviation in America	3
SS 204	Introduction to Geography	3
SS 214	Culture, History and Language	3
SS 290	History of Modern Europe	3
SS 304	Islam and Arabic Culture	3
SS 308	Studies in Middle Eastern History and Culture	3
SS 311	U.S Military History 1775-1900	3
SS 313	Modern Middle East in World Affairs	3
SS 314	Culture, History and Language	3
SS 320	Government of the U.S.	3
SS 321	U.S. Military History 1900-Present	3
SS 325	International Studies	3
SS 326	Russian-U.S. Relations	3
SS 327	International Relations	3
SS 333	U.S. - Asian Relations	3
SS 336	The Modern Middle East in World Affairs	3
SS 340	Modern U.S. Foreign Policy	3
SS 363	Inter-American Relations	3