## **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.

	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 Scien	ce/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	3
	Physics I	

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				

## 2 General Education

HF 312	Ergonomics and Bioengineering	3	HU 163	Art of the Classical World: Gods, Heroes, and	3
PS 113	Introductory Physics I	3	1111464	Empire	2
PS 113L	Introductory Physics I Laboratory	1	HU 164	Foundations of Visual Art: An Examination of Visual Culture	3
PS 117	Introductory Physics II	3	HU 165	Travel and Adventure Nonfiction Literature	3
PS 117L	Introductory Physics II Lab	1	HU 171	The Origins of Film in America and Europe	3
PS 161	Physics I & II for Engineers	4	HU 172	Exploring Science Fiction Films	3
PS 204	General Astronomy	3	HU 173	Myth and the Marvel Cinematic Universe	3
PS 208	Physics II	3	HU 175	Masterpieces: Art, Music and Literature of	3
PS 215	Physics I	3	110 170	Europe Renaissance through the Nineteenth	O
PS 216	Physics I Laboratory	1		Century	
PS 219	Physics III	3	HU 320	Aesthetics of Visual and Musical Arts	3
PS 221	Intermediate Physics Laboratory	2	HU 325	Exploring Film	3
PS 222	Intermediate Astronomy	3	HU 330	Values and Ethics	3
PS 232	Computational Methods in the Physical	3	HU 332	Cross-Cultural Communication	3
DO 050	Sciences	0	HU 335	Technology and Modern Civilization	3
PS 250	Physics for Engineers III	3	HU 345	Comparative Religions	3
PS 253	Physics Laboratory for Engineers	1	HU 355	Creative Writing	3
PS 321	Classical Mechanics I	3	HU 363	Communication and Society	3
PS 322	Classical Mechanics II	3	HU 415	Nonverbal Communication	3
PS 330	Electricity and Magnetism I	3	LCH 205	Modern Chinese Media	3
PS 331	Electricity and Magnetism II	3	LCH 206	Contemporary Chinese Literature	3
SIS 220	Investigative Methodology and Forensic	4	LCH 306	Asian Literature	3
M/V 004	Science	0	LCH 307	Personality and Profiling	3
WX 201	Survey of Meteorology	3	LCH 308	Foundations of Terrorism	3
WX 203L	Survey of Meteorology Laboratory	1	LCH 400	Eastern and Western Civilization	3
WX 261	Applied Climatology	3	LCH 402	Applied Cross-Cultural Communications	3
WX 270	Weather Information Systems	3	Social Science	• •	
WX 301	Aviation Weather	3	EC 200	An Economic Survey	3
WX 312	Mountain Meteorology	3	EC 210	Microeconomics	3
WX 321	Atmospheric Environmental Studies	3	EC 211	Macroeconomics	3
WX 322	Space Weather	3	EC 225	Engineering Economics	3
WX 353	Thermodynamics of the Atmosphere	3	EC 302	History of Economic Thought	3
WX 354	Dynamics of the Atmosphere	3	EC 312	Money and Banking	3
WX 363	Thunderstorms	3	EC 315	Managerial Economics	3
WX 364	Weather for Aircrews	3	EC 316	Environmental Economics and Policy	3
WX 365	Satellite and Radar Weather Interpretation	3	EC 317	Global Economics, Politics and Culture	3
WX 390	Atmospheric Physics	3	HF 300	Human Factors I: Principles and Fundamentals	3
WX 420	Advanced Atmospheric Thermodynamics	3	HF 306	Human Factors III: Performance Processes	4
WX 427	Forecasting Techniques	3	HF 310	Human-Computer Interaction	3
WX 458	All Hazards Support, Modeling and Mapping.	3	PSY 101	Introduction to Psychology	3
WX 490	Advanced Dynamic Meteorology I	3	PSY 222	Introduction to Industrial/Organizational	3
WX 491	Advanced Dynamic Meteorology II	3	. 0. 222	Psychology	Ü
WX 492	Advanced Synoptic Meteorology	3	PSY 306	Psychology of Deception Detection	3
	Social Science (12 credits) - Please verify		PSY 311	Sensation, Perception, and Cognition	3
	curriculum requirements.		PSY 313	Personality and Profiling	3
Humanities	The Dheteric of Cariel Justice Mayresents 9	0	PSY 315	Cognitive Psychology	3
HU 112	The Rhetoric of Social Justice Movements & Public Advocacy	3	PSY 320	Aviation Psychology	3
HU 118	Digital Publics & Rhetorical Theory	3	PSY 321	Psychology of Gaming	3
HU 131	History of Jazz	3	PSY 322	Research Design	4
HU 132	History of Rock and Roll	3	PSY 326	Group and Team Behavior	3
HU 145	Themes in the Humanities	3	PSY 335	Physiological Psychology	3
HU 146		3	PSY 336	Forensic Psychology	3
	Music Appreciation		PSY 337	Criminality	3
HU 147	Digital Media Storytelling	3	PSY 345	Training and Development	3
HU 148	Art and History of Podcasting	3	PSY 350	Social Psychology	3
HU 149	Writing Games: Video Games as Rhetorical Texts	3	PSY 365	Abnormal Psychology	3
HU 162	Art of the Prehistoric and Ancient World: Caves,	3	PSY 370		3
110 102					
	Kings, and Pyramids	3	PSY 401	Occupational Health & Performance Psychology of Leadership	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