

## Associate in Arts Years 1 and 2 at Metropolitan Community College

General Education Requirements		Credits
<b>American Institutions</b>		
HIST 120	United States History to 1865 <i>or</i>	3
HIST 121	United States History since 1865	
POLS 136	Introduction to American National Politics <i>or</i>	3
POLS 137	Introduction to State and Local Politics	
<b>Communications</b>		
ENGL 101	Composition and Reading I	3
ENGL 102	Composition and Reading II	3
SPDR 100	Fundamentals of Speech <sup>1</sup> <i>or</i>	3
SPDR 102	Fundamentals of Human Communication	
<b>Mathematics</b>		
MATH 180	Analytic Geometry and Calculus I	3
*MATH 119, 130, 141, 150, 170, 175, 180, 190, <i>or</i> 206 may also fulfill math requirement		
<b>Humanities</b> (Choose one course from each group)		
Group 1: HUMN 140, MUSI 108, SPDR 112, ART 150 <sup>2</sup> , 151 <sup>2</sup> , 158 <sup>2</sup> , 159 <sup>2</sup>		3
Group 2: HIST 133, 134		3
Group 3: ENGL 120, 124, 150, 151		3
<b>Natural Sciences</b> (2 courses, 1 biological and 1 physical)		
BIOL 101	General Biology <i>or</i>	5
BIOL 118	Introduction to Biology	
PHYS 220	Engineering Physics I	5
<b>Social Sciences</b> (2 courses)		
Choose one of the following:		
PSYC 140	General Psychology	3
SOCI 160	Sociology	
SOCI 163	Social Problems	
ECON 210	Macroeconomics	
ECON 211	Microeconomics	
PSYC 243	Human Lifespan	
PSYC 148	Group Processes	
SOCI 101	Sex Roles and Sexuality	
Choose one course from the following areas not chosen above:		
PSYC		
ECON		
POLS		
ANTH		
SOSC		
CSIS 110 or higher		3
<b>Electives</b> - 17 credits		
MATH 190	Analytical Geometry and Calculus II	5
MATH 210	Analytical Geometry and Calculus III	5
PHYS 221	Engineering Physics II	5
<b>Total Credits Required</b>		<b>62</b>
Student must complete a Writing Intensive course AND either a Human Diversity course or Learning Community as part of the General Education Requirements.		
<sup>1</sup> Students who take SPDR 100 will be required to complete a course in interpersonal communication to fulfill Rockhurst's proficiency requirements. A one credit hour option is available at Rockhurst.		
<sup>2</sup> Students who take this course will be required to complete at least 1 credit hour of studio work in art, music or theatre.		

## Bachelor of Science in Physics Years 3 and 4 at Rockhurst

Core Required Courses		Credits
PI 1100	Reality and Human Existence	3
PI 3100	Ethical Theory	3
TH 1000	Christianity I: Foundations	3
TH 3000	Christianity II: Development	3
PI/TH Elective (Level 2)		3
<b>Physics Courses</b>		
MT 3530	Numerical Methods	3
MT 3700	Differential Equations	3
MT 3710	Applied Analysis	3
MT 3810	Linear Algebra	3
PH 4210	Advanced Laboratory	4
PH 4300	Electricity and Magnetism	3
PH 4400/10	Physical Optics and lab	4
PH 4500	Modern Physics	3
PH 4600/10	Classical Mechanics and lab	4
PH 4960	Physics Seminar	1
<b>Choose one:</b>		
PH 3400	Engineering Thermodynamics	3
PH 3500	Engineering Statics	3
<b>Electives</b>		6
<b>Total Credits Required</b>		<b>128</b>
Two additional upper-division math courses (MT 3800 and one theoretical course) are required to complete the recommended double major in Mathematics.		
A grade of C or better is required in all upper-division courses counted toward the fulfillment of the major requirements.		
Electives should be chosen in consultation with major advisor.		
Note: Students should consider a double major or a minor to complete remaining hours.		