

Associate in Arts Years 1 and 2 at Metropolitan Community College

General Education Requirements		Credits	
American Institutions			
HIST 120	American History I <i>or</i>	3	
HIST 121	American History II		
POLS 135	Introduction to Political Science <i>or</i>	3	
POLS 136	Introduction to American National Politics <i>or</i>		
POLS 137	Introduction to State and Local Politics		
Communications			
ENGL 101	Composition and Reading I	3	
ENGL 102	Composition and Reading II	3	
SPDR 100	Fundamentals of Speech <i>or</i>	3	
SPDR 102	Fundamentals of Human Communication		
Mathematics			
MATH 180	Analytic Geometry and Calculus I	5	
Humanities (3 courses, 3 areas of study, 1 course must be Lit. or Phil.)			
Art, Music, <i>or</i> Theatre:			
ART 108	Survey of Art <i>or</i>	9-11	
ART 150	History of Art I <i>or</i>		
ART 151	History of Art II <i>or</i>		
MUSI 108	Music Appreciation <i>or</i>		
SPDR 114	Theatre and the Western World		
Literature:			
ENGL 124	Introduction to Literature <i>or</i>		
ENGL 130	Shakespeare <i>or</i>		
ENGL 150	World Literature I <i>or</i>		
ENGL 151	World Literature II <i>or</i>		
ENGL 165	Masterpieces of American Literature <i>or</i>		
ENGL 220	British Literature to 1750 <i>or</i>		
ENGL 221	British Literature 1750 to Present <i>or</i>		
ENGL 222	American Literature to 1860 <i>or</i>		
ENGL 223	American Literature 1860 to Present		
Philosophy:			
PHIL 100	Introduction to Philosophy <i>or</i>		
PHIL 101	Philosophy of Religion <i>or</i>		
PHIL 200	Logic <i>or</i>		
PHIL 201	History of Philosophy I <i>or</i>		
PHIL 203	Ethics		
Foreign Language:			
Foreign Language 101 <i>or</i>			
Foreign Language 102 <i>or</i>			
Foreign Language 203			
Natural Sciences (2 courses, 1 biological and 1 physical)			
BIOL 101	General Biology <i>or</i>	5	
BIOL 104	General Botany <i>or</i>		
BIOL 106	General Zoology		
CHEM 111	General College Chemistry I <i>or</i>	4-5	
PHYS 220	Engineering Physics I		

Social Sciences (2 courses, 2 areas of study)			
Anthropology:			
ANTH 100	General Anthropology	6	
Economics:			
ECON 110	Introduction to Economics <i>or</i>		
ECON 210	Macroeconomics <i>or</i>		
ECON 211	Microeconomics		
Geography:			
GEOG 105	World Geography <i>or</i>		
GEOG 114	Introduction to Geography		
Political Science:			
POLS 135	Introduction to Political Science		
Psychology:			
PSYC 140	General Psychology		
Sociology:			
SOCI 160	Sociology <i>or</i>		
SOCI 170	General Anthropology		
Total General Education Courses		42	
The 42 hours listed above will comprise MCC's 42 hour general education block.			
CSIS 110 <i>or</i> higher numbered CSIS course		3	
Electives (courses must be numbered 100 or higher) - 15-17 credits			
MATH 190	Analytic Geometry and Calculus II	5	
MATH 210	Analytic Geometry and Calculus III	5	
From the following courses, choose courses to total a maximum of 64 credits for the degree.			
MATH 230	Differential Equations	3	
Satisfactorily complete the first year of a single foreign language (FL 102), or demonstrate elementary proficiency as determined by a CLEP examination, or successfully complete an intermediate or higher level foreign language course.			
Foreign Language 101 – 5 credits			
Foreign Language 102 – 5 credits			
Foreign Language 203 – 5 credits			
Total Credits Required		62	
Student must complete a Writing Intensive course AND either a Human Diversity course or Learning Community as part of the General Education Requirements.			

Bachelor of Arts or Science in Mathematics Years 3 and 4 at Truman State University

General Education		Credits
Interdisciplinary, Writing-Enhanced Junior Seminar (JINS)		3
Bachelor of Arts or Bachelor of Science Requirements (Choose One) - 6-8 credit hours		
BA Requirements		
Complete the second year of a single foreign language, or demonstrate intermediate proficiency as determined by a proficiency examination, or successfully complete a higher level foreign language course. Students who completed FL 203 at MCC have fulfilled this requirement.		
BS Requirements		
Complete two courses from the following:		6
STAT 374	Statistical Quality Control	
STAT 375	ANOVA/Experimental Design	
STAT 376	Nonparametric Statistics	
STAT 378	Linear Regression/Time Series	
PHRE 342	Symbolic Logic	
PHRE 382	Philosophy of Mathematics	
NASC 400	History of Science to 1700	
NASC 401	History of Science since 1700	
ECON 300	Intermediate Microeconomics	
ECON 303	Intermediate Macroeconomics	
ECON 304	Mathematical Economics	
ECON 406	Econometrics	
Required Support – 6 hours		
CS 180	Foundations of Computer Science I	3
STAT 290	Statistics	3
Major Requirements – 18 hours		
MATH 200	Foundations of Mathematics (WE)	3
MATH 357	Linear Algebra	3
MATH 451	Algebraic Structures I	3
MATH 461	Advanced Calculus I	3
MATH 498	Senior Seminar	1
Mathematics Electives. Choose courses totaling 15 credit hours from the following lists, with at least one course from List A:		
List A:		15
MATH 363	College Geometry	
MATH 440	Topology	
MATH 447	Combinatorial Analysis	
MATH 452	Algebraic Structures II	
MATH 454	Theory of Numbers	
MATH 462	Advanced Calculus II	
MATH 465	Differential Geometry	
MATH 467	Logic and Set Theory	
MATH 515	Complex Variables I	
STAT 570	Mathematical Probability and Statistics I	
List B:		
MATH 300	Introduction to Numerical Analysis	
MATH 325	Introduction to Operations Research	
MATH 347	Discrete Mathematics	
MATH 365	Ordinary Differential Equations (may be completed at MCC)	
MATH 400	Methods of Optimization	
MATH 455	History of Mathematics I	
MATH 456	History of Mathematics II	
MATH 464	Higher Geometry	
MATH 511	Numerical Analysis	
MATH 521	Partial Differential Equations	
MATH 530	Topics in Mathematical Modeling	
MATH 564	Advanced Linear Algebra	
STAT 571	Mathematical Probability and Statistics II	

Capstone Experience	
Each student pursuing a Bachelors degree in mathematics is required to complete a project demonstrating his/her ability to study independently some area of mathematics. The project will include a written report and an accompanying public presentation. Students are responsible for choosing a project and a supervisor. The project must be approved by the supervisor and by the Undergraduate Committee.	
Writing Enhanced Requirement	
Complete at least one additional course at Truman, in addition to MATH 200 and the JINS course, that is listed as Writing-Enhanced. This course may be used to fulfill other requirements.	
Total Credits Required	124