Mathematics

Associate in Arts Years 1 and 2 at Metropolitan Community College

American Institutions HIST 120 American History I or HIST 121 American History II POLS 135 Introduction to Political Science or POLS 136 Introduction to State and Local Politics 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 or SPDR 102 Fundamentals of Speech or 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, or Theatre: ART 108 Survey of Art or ART 150 History of Art I or Huls 108 Music Appreciation or SPDR 114 Theatre and the Western World Literature: ENGL 124 Introduction to Literature or ENGL 130 Shakespeare or ENGL 151 World Literature I or ENGL 152 Mort Literature I or ENGL 154 Masterpieces of American Literature or ENGL 221 British Literature 1750 to Present or ENGL 222 American Literature to 1860 or ENGL 223 American Literature 1860 to Present Phill 201 Philosophy of Religion or PHIL 201 History of Philosophy I or PHIL 201 History of Philosophy I or ENGL 203 Ethics Foreign Language 101 or Foreign Language 101 or Foreign Language 203 Natural Sciences (2 courses, 1 biological and 1 physical) BIOL 101 General Biology or BIOL 104 General Botany or SPIN 105 State and Local Politics Sambar American Literal Vor A Electrican National Politics or SPDR 114 Douglet Sciences (2 courses, 1 biological and 1 physical) BIOL 101 General Botany or SPDR 104 Device State and Local Politics American Literal Vor A Electrican National Politics Or Brown Autral Sciences (2 courses, 1 biological and 1 physical) BIOL 101 General Botany or SPDR 115 Device Price Pri		hotropontali community cono	
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BIOL 104 General Botany or 5 BIOL 106 General Zoology CHEM 111 General College Chemistry I or		General Biology or	
BIOL 106 General Zoology CHEM 111 General College Chemistry I or	BIOL 104		5
	CHEM 111		4.5
		Engineering Physics I	4-5

Social Scient	ces (2 courses, 2 areas of study)			
Anthropology				
ANTH 100	General Anthropology			
Economics:	General Antinopology			
ECON 110	Introduction to Economics or			
ECON 210	Macroeconomics or			
ECON 211	Microeconomics			
Geography:	Microsconomico			
GEOG 105	World Geography <i>or</i>	_		
GEOG 114	Introduction to Geography	6		
Political Scien				
POLS 135	Introduction to Political Science			
Psychology:				
PSYC 140	General Psychology			
Sociology:	z anatom a y anatogy			
SOCI 160	Sociology or			
SOCI 170	General Anthropology			
Total Gener	al Education Courses	42		
The 42 hours listed above will comprise MCC's 42 hour general education block.				
CSIS 110 or h	nigher numbered CSIS course	3		
Electives (courses must be numbered 100 or higher) - 15-17 credits				
Electives (cou	urses must be numbered 100 or higher) - 15-17 credits			
MATH 190	Analytic Geometry and Calculus II	5		
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MATH 190 MATH 210	Analytic Geometry and Calculus II	5		
MATH 190 MATH 210 From the foll 64 credits fo	Analytic Geometry and Calculus II Analytic Geometry and Calculus III owing courses, choose courses to total a ma r the degree.	5 ximum of		
MATH 190 MATH 210 From the foll 64 credits for MATH 230	Analytic Geometry and Calculus II Analytic Geometry and Calculus III owing courses, choose courses to total a ma r the degree. Differential Equations	5		
MATH 190 MATH 210 From the foll 64 credits for MATH 230	Analytic Geometry and Calculus II Analytic Geometry and Calculus III owing courses, choose courses to total a ma r the degree.	5 ximum of		
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Bachelor of Arts or Science in Mathematics Years 3 and 4 at Truman State University

General Ed	ucation	Credits
Interdisciplina	ary, Writing-Enhanced Junior Seminar (JINS)	3
Bachelor of	f Arts <i>or</i> Bachelor of Science Requireme	ents
	- 6-8 credit hours	
BA Requiren		
	econd year of a single foreign language, or demonstrat	e
	oficiency as determined by a proficiency examination, of	
	mplete a higher level foreign language course. Studen	
	203 at MCC have fulfilled this requirement.	
BS Requiren		
	courses from the following:	
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	6
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	
	pport – 6 hours	
CS 180	Foundations of Computer Science I	3
STAT 290	Statistics	3
	rements – 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	11
	Electives. Choose courses totaling 15 credit hours	rom the
	with at least one course from List A:	T
List A:	Callana Caamatini	
MATH 363	College Geometry	
MATH 440 MATH 447	Topology Combinatorial Analysis	
MATH 452 MATH 454	Algebraic Structures II 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:		1
MATH 300	Introduction to Numerical Analysis	
MATH 325	Introduction to Operations Research	15
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	
	ropics in Mathematical Modeling	
MATH 564 STAT 571	Advanced Linear Algebra 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

12/