TRUMAN STATE UNIVERSITY B.A./B.S. MATHEMATICS DEGREE WORKSHEET 2005-2007 CATALOG REQUIREMENTS

NAME:	11)#	DATE:		_	
	itute, and	d/or Writing	s: (1) a course used to fulfill any requirement in a student's degreen Enhanced requirement, if also approved for that area, and (2) so this worksheet with an asterisk $(*)$.			
LIBERAL STUDIES PROGRA	M		Scientific: Physical Science	Sem	Cr	· Grade
			CHEM 120* or PHYS 195*		\prod	
Essential Skills						1
	Sem	Cr Grade	Social Scientific	Sem	Cr	· Grade
ENG 190 Writing as Critical Thinking		3			3	
-	Sem	Cr Grade		.1		
COMM 170 Public Speaking		3	Interconnecting Perspectives			
	Sem	Cr Grade		Sem	Cr	· Grade
MATH 186 Elementary Functions	56	3	Truman Week Program	Dei	$\overline{1}$	Orum
OR MATH 156 College Algebra		3	Training (Con Trogram	C		~ .1.
	<u> </u>	2	UNC (Interdisciplinary WE Junior Caminar)	Sem	$\frac{Cr}{3}$	Grade
AND MATH 157 Plane Trigonometry Satisfactory completion of a higher level Mathematics course in			JINS (Interdisciplinary WE Junior Seminar)	<u> </u>	J	<u> </u>
the Mathematical Mode of Inquiry fulfills this requirement.			Y			
	Sem	Cr Grade	Intercultural Perspective	Sem	Cr	Grade
STAT 190 Basic Statistics	Sem	Cr Grade		<u> </u>	L	
OR STAT 290 Statistics*		3				
Personal Well Being	Sem	Cr Grade	Elementary Foreign Language Successfully complete the first year of a single foreign language demonstrate elementary proficiency as determined by a profic examination, or successfully complete an intermediate or high language course.	iency ier level j		
			turguage comme.	Sem	Cr	Grade
Modes of Inquiry Complete seven of the following eight Modes of Inquiry. Course, the Modes of Inquiry must be among those listed in the Liberal Spages of the 2005-2007 General Catalog.						
			DEGREE REQUIREMENT	S		
Aesthetic: Fine Arts	Sem	Cr Grade	Missouri Statute Course	Sem	Cr	· Grade
Aesthetic: Literature	Sem	Cr Grade	Two Writing-Enhanced Courses <u>In addition</u> to the JINS course listed above.	C-111	<u> </u>	Cardo
Historical	~	~ ,	MATH 200 Foundations of Mathematics	Sem	U,	Grade
Historicai	Sem	Cr Grade	MATTI 200 Outdutions of Mattienaries	+	╁	+-
]3]			<u> </u>	
3 A A 2 1						
Mathematical	Sem	Cr Grade	de California			
MATH 198 Analytic Geometry & Calculus I*	<u> </u>	5	In addition, Mathematics majors must also fulfill the following requirements for graduation:	; mınımu	m	
Philosophical/Religious	Sem	Cr Grade	 - A 2.0 Truman grade point average. - A 2.0 major gpa - A 2.00 cumulative gpa - 40 hours of 300-400 level courses. 			
Scientific: Life Science	Sem	Cr Grade	 - 63 hours of liberal arts and sciences coursework. - 124 total hours of undergraduate coursework - Assessment, residency, and all other requirements as outling the <i>General Catalog</i>. 	ed in		
Modes of Inquiry continued in next column						

REQUIRED SUPPORT

CS 180 Foundations of Computer Science I	3	
STAT 290 Statistics*		
MATH 198 Analytic Geometry & Calculus I*		
PHYS 195 Physics with Calculus I*		
OR CHEM 120 Chemical Principles I*		

BA/BS REQUIREMENTS (Choose BA or BS)

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.

Sem	Cr	Grade	

BS Requirements

Complete at least six hours from the following areas: Courses designated as CS, BIOL, CHEM, or PHYS, which fulfill a major requirement for a bachelor's degree in that major, or any of the following courses:

STAT 374 Statistical Quality Control	3	
STAT 375 ANOVA/Exp. Design	3	
STAT 376 Nonparametric Stat./Sampling	3	
STAT 378 Linear Regression/Time Series	3	
PHRE 342 Symbolic Logic	3	
PHRE 382 Philosophy of Mathematics	3	
NASC 400 History of Science to 1700	3	
NASC 401 History of Science since 1700	3	
ECON 300 Intermediate Microeconomics	3	
ECON 303 Intermediate Macroeconomics	3	
ECON 304 Mathematical Economics	3	
ECON 373 Econometrics	3	

ELECTIVES

MAJOR REQUIREMENTS

Required Courses		Cr	Grade
MATH 101 Freshman Seminar		1	
MATH 263 Analytic Geo and Calculus II		5	
MATH 264 Analytic Geo and Calculus III		3	
MATH 200 Foundations of Mathematics		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

Cr Grade

Choose courses totaling 15 credit hours from the following lists, with at least one course from List A.

ne course from List A.			
List A:	Sem	Cr	Grade
MATH 363 College Geometry		3	
MATH 440 Topology		3	
MATH 447 Combinatorial Analysis		3	
MATH 452 Algebraic Structures II		3	
MATH 454 Theory of Numbers		3	
MATH 462 Advanced Calculus II		3	
MATH 465 Differential Geometry		3	
MATH 467 Logic and Set Theory		3	
MATH 515 Complex Variables I		3	
STAT 570 Math Prob and Statistics I		3	
List B: #	Sem	Cr	Grade
MATH 300 Intro to Numerical Analysis		3	
MATH 325 Intro to Oper Research		3	
MATH 330 Mathematics of Finance		3	
MATH 345 Intro to Mathematical Biology		3	
MATH 347 Discrete Mathematics		3	
MATH 364 Vector Analysis		3	
MATH 365 Ordinary Diff Equations		3	
MATH 400 Methods of Optimization		3	
MATH 455 History of Mathematics I		3	
MATH 456 History of Mathematics II		3	
MATH 464 Higher Geometry		3	
MATH 511 Numerical Analysis		3	
MATH 521 Partial Diff Equations		3	
MATH 530 Topics in Math. Modeling		3	
MATH 564 Advanced Linear Algebra		3	
STAT 571 Math Prob and Statistics II		3	
# At most one course from another discipline may be substituted for a			

[#] At most one course from another discipline may be substituted for a course in List B. Such a course must be at the 300 level or above, contain a strong mathematical component, and be approved by the mathematics faculty. A list of approved courses may be obtained in the Mathematics and Computer Science Division Office.

Capstone Experience

Cr Grade

Each student is required to complete a Capstone Experience, as described in the 2005-2007 General/Graduate Catalog. A "Verification of Completion of Capstone Experience" form must be filed with the Registrar prior to graduation. These forms are available in the Mathematics and Computer Science Division Office.