

Name:

Adviser:

Requirements for the Bachelor of Science Degree in Mathematics: After Fall 2011 (Old Core)**CORE REQUIREMENTS****A. Communication (12-14 hours)**

Choose six hours:	ENG 131	3	Rhetoric and Composition
	ENG 132	3	Research and Argument
	ENG 133	3	Comp & Rhet: Exp and Arg
	ENG 230	3	American Lit from 1865
Choose six to eight hours:	BCM 247	3	Business Communication
	COM 111	3	Public Speaking
	COM 170	3	Interpersonal Comm I
	ENG 273	3	Tech and Scientific Writing
	FRE 131	4	Elementary French I
	FRE 132	4	Elementary French II
	GER 131	4	Elementary German I
	GER 132	4	Elementary German II
	ILA 111	4	Elementary Lang Course I
	ILA 112	4	Elementary Lang Course II
	SPA 131	4	Elementary Spanish I
	SPA 132	4	Elementary Spanish II
	SPH 172	3	Beg American Sign Lang I
	SPH 272	3	American Sign Language II
	LAT 131	4	Elementary Latin I
LAT 132	4	Elementary Latin II	
GRK 131	4	Elementary Greek I	
GRK 132	4	Elementary Greek II	

D. Humanities, Visual and Performing Arts (6 hours)

Choose three hours:	ART 280	3	Art Appreciation
	ART 281	3	Art History Survey I
	ART 282	3	Art History Survey II
	MUS 140	3	Music Appreciation
	MHL 245	3	Intro to Music Literature
	THR 161	3	Theatre Appreciation
	THR 370	3	History of the Cinema
	DAN 140	3	Dance Appreciation
	DAN 341	3	History and Phil of Dance
	Choose three hrs:	Literature	3
Mythol.		3	ENG 300/209

B. Mathematics (6-9 hours, satisfied in MAJOR)**C. Natural Sciences (15-16 hours)**

Choose four: (at least two sciences)	BIO 131	4	Principles of Botany
	BIO 133	4	Principles of Zoology
	BIO 225	3	Local Flora
	BIO 238	4	Human Anat and Phys I
	CHE 133	4	General Chemistry I
	CHE 134	4	General Chemistry II
	GOL 131	4	Introductory Geology I
	GOL 132	4	The Earth Through Time
	PHY 110	4	Fund of Electronics
	PHY 131	4	Mechanics and Heat
PHY 132	4	Electricity, Sound and Light	
PHY 241	4	Technical Physics I	
PHY 242	4	Technical Physics II	
AST 105	4	Classical and Modern Ast	

E. Social and Behavioral Sciences (15 hours)

Take both:	HIS 133	3	US Hist Survey: 1000-1877
	HIS 134	3	US Hist Survey: 1877-Pres
Take both:	PSC 141	3	Intro Govt: Theory and Politics
	PSC 142	3	Intro Govt: Struct and Funct
Choose three hours:	ANT 231	3	Cultural Anthropology
	ECO 231	3	Principles of Macroeconomics
	ECO 232	3	Principles of Microeconomics
	GEO 131	3	World Regional Geography
	GEO 230	3	Cultural Geography
	PSY 133	3	General Psychology
	PSY 153	3	Human Sexuality
	SOC 137	3	Introduction to Sociology
	SOC 139	3	Minority Relations
	EPS 380*	3	Educational Psychology

*: changing to HMS 203; also satisfies 8-12 Teaching minor

(Courses used to satisfy core requirements may also satisfy major and minor requirements)

MAJOR (40 hours MTH, 3 hours CSC)

Take all:	MTH 233	4	Calculus I
	MTH 234	4	Calculus II
	MTH 311	3	Intro to Modern Math
	MTH 317	3	Linear Algebra
	MTH 333	4	Calculus III
	MTH 337	3	Differential Equations
	MTH 359	3	Probability Models
	MTH 360	3	Statistical Inference
	MTH 412	3	Intro to Algebraic Systems
	MTH 439	3	Intro to Analysis I
	MTH 440	3	Intro to Analysis II
	MTH 463	1	Seminar in Mathematics
	Choose one:	MTH 305	3
MTH 351		3	College Geometry**
MTH 415		3	Number Theory
Take:	CSC 102	3	Comp Sci Principles

MINOR (18-24 hours, at least 6 advanced)

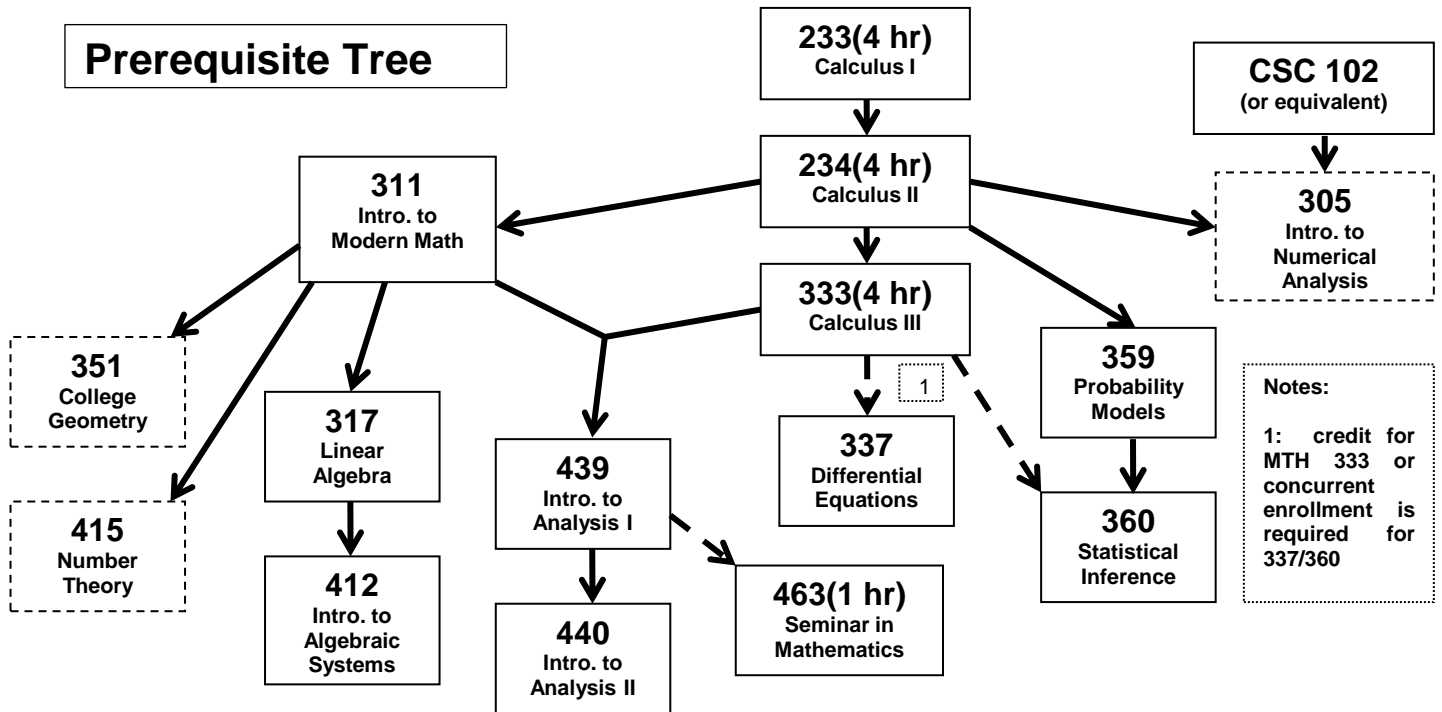
Choose minor; see Bulletin	
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(8-12 Teaching and Applied Statistics minors on reverse)

Note: this sheet is intended to be an aid for academic advising, and not as a substitute for the General Bulletin. If there are any discrepancies, the Bulletin takes precedence.

**: required for 8-12 Teaching

(updated 31 Oct 2013)



Minor in 8-12 Teaching (3 hours EPS, 24 hours SED)				
Take	EPS 380*	3	Educational Psychology	(req'd for TE program)
both:	SED 370**	3	Intro to Ped and Active Lrng	
Then apply for admission to Teacher Ed. Program (Requires 60+ hours earned, degree plan on file, 2.5+/2.75+ GPA in major--- See General Bulletin for full details)				
Take	SED 371**	3	Learner-Centered Curriculum	(req'd for Internship)
these:	SED 372	3	Reading and Inf Literacy	
Internship Block	SED 450/L	3	Div in a Learner Cent Env	Next-to-last sem.
	SED 460	3	Managing a Lrnner Cent Class	
Student Teaching	SED 442	6	Student Teaching	Final Semester
	SED 443	3	The Professional Educator	

*: changing to HMS 203; also satisfies part (3) of core requirement E

** : special sections of these courses intended for math/science majors

Minor in Applied Statistics (6-7 hours MTH, 12 hours STA)				
Take	MTH 233	4	Calculus I	(preferred)
one:	MTH 144	3	Business Calculus	
Take these:	MTH 220	3	Intro to Prob and Stat	(prereq: 220)
	STA 320	3	Statistical Methods	
	STA 321	3	Applied Nonparametric Stat	(prereq: 144/233)
	STA 322	3	Regression	
STA 327	3	Exper Design and Analysis	(prereq: 320)	