BS IN MATHEMATICS TO MS IN MATHEMATICS FAST TRACK

Degree: Bachelor of Science to Master of Science

Major: Mathematics to MS in Mathematics Fast Track

Total Hours: 150

Code	Title	Hours
General Education Core Curriculum		
Communicaiton		
ENGL 1301	Composition I	3
Select one of the following:		3
COMM 1315	Public Speaking I	
COMM 1321	Business and Prof Speech	
ENGL 1302	Composition II	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
Mathematics [1]		
MATH 2413	Calculus I	4
Life and Physical Sciences [1, 6]		
Select two courses from the following:		8
BIOL 1406	General Biology I (Majors)	
BIOL 1407	General Biology II (Majors)	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II	
GEOL 1403	Geology I: Physical Geology	
GEOL 1403	Geology I: Physical Geology	
PHYS 2425	Univ Physics I	
PHYS 2426	University Physics II	
Language, Philosophy and Culture		
Select one of the following:		3
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Ethics and Literature	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
Creative Arts		
Select one of the following:		3
ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2303	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	
American History		
Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	
Government/Political Science		
POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3
Social and Behavorial Sciences		
Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
POLS 1301	Intro to Political Science	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	
Component Area Option		
ENGL 1302	Composition II	3
Additional hours are from Math and Lab Science applied here		
Required Major Courses		
Mathematics Courses		
MATH 2318	Linear Algebra	3
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
MATH 3322	Intro to Advanced Mathematics	3
MATH 3370	Introduction to the Theory of Statistical Inference	3
MATH 4325	Analysis I	3
MATH 3350	Modern Algebra - Groups	3
or MATH 3351	Modern Algebra - Rings	
Select one of the following Programming Courses:		3
COSC 1336 & COSC 1173	Programming Fundamentals I and Programming Lab [2]	
or COSC 3306	UNIX/C++	
or ELEN 1301	Computers and Programming I	
Electives		
MATH Courses [3, 5]		15
Elective Courses		16
Minor		
Must complete seven courses - four of which must be at the 3000-level or above [4]		21
MS in Mathematics (Thesis)		
Select three of the following:		9

MATH 5310	Real Variables	
MATH 5320	Modern Algebra	
MATH 5340	Topology [5]	
MATH 5312	Complex Variables [5]	
Select five from the following:		15
MATH 5300	Regression Analysis [5]	
MATH 5315	Numerical Analysis [5]	
MATH 5319	Design and Analysis of Experiments [5]	
MATH 5325	Partial Differential Equations [5]	
MATH 5330	Linear Algebra II [5]	
MATH 5351	Combinatorics [5]	
MATH 5361	Advanced Combinatorial Design Theory [5]	
MATH 5371	Advanced Graph Theory [5]	
MATH 5380	Statistical Inference [5]	
Thesis		
MATH 5390	Thesis	3
MATH 5391	Thesis	3
Total Hours		**150**

1. The additional hours from these sections are applied in the Component Area Option.
2. With Departmental Approval
3. From 6 to 12 hours may be taken from the selected list of graduate courses
4. This is a non-math minor and should be comprised of courses from outside mathematics.
5. Students who successfully complete the graduate version of these courses will receive both graduate credit and institutionally awarded undergraduate credit.

Student must earn a minimum GPA of 2.0 with at most one grade of "D" in all math courses for the undergraduate degree.

The graduate program requires a minimum GPA of 3.0 and a "C" or better in all courses.

First Year		
Fall		**Hours**
MATH 2413	Calculus I	4
HIST 1301	U S History I 1763-1877	3
Life & Physical Sciences		4
Creative Art		3
Communication		3
	Hours	**17**
Spring		
MATH 2414	Calculus II	4
MATH 2318	Linear Algebra	3
Life & Physical Sciences [1]		4
HIST 1302	U S History II Since 1877	3
ENGL 1301	Composition I	3
	Hours	**17**
Second Year		
Fall		
POLS 2301	Intro to American Government I	3
MATH 3322	Intro to Advanced Mathematics	3
MATH 2415	Calculus III	4
COSC		3
ENGL 1302	Composition II	3
	Hours	**16**
Spring		
MATH 3351 or MATH 3350	Modern Algebra - Rings or Modern Algebra - Groups	3
POLS 2302	Intro/American Government II	3
MATH 3370	Introduction to the Theory of Statistical Inference	3
Secondary Area/Minor [1]		3
Electives [1]		3
	Hours	**15**
Third Year		
Fall		
Secondary Area/Minor [1]		3
MATH Elective [1, 2]		3
MATH Elective [1, 2]		3
Language, Philosophy & Culture		3
MATH 4325	Analysis I	3
	Hours	**15**
Spring		
Social & Behavioral Sciences		3
Secondary Area/Minor [1]		3
Secondary Area/Minor [1]		3
MATH Elective [1, 2]		3
Electives [1]		3
	Hours	**15**
Fourth Year		
Fall		
MATH Elective [1, 2]		3
Secondary Area/Minor [1]		3
Secondary Area/Minor [1]		3
Elective		4
	Hours	**13**
Spring		
Electives [1]		3
Electives [1]		3
MATH Elective [1, 2]		3
Secondary Area/Minor [1]		3
	Hours	**12**
	Total Hours	**120**

1. Students should meet with their academic advisor to choose their best option.
2. From 6-12 hours of these courses can be taken from the selected list of graduate courses. Students who successfully complete the graduate courses will receive both graduate credit and institutionally awarded undergraduate credit.