

# Mathematics Major Curricular Plan, 1998-2003

Student Name: \_\_\_\_\_

KSU ID# \_\_\_\_\_

Advisor Name: \_\_\_\_\_

Intended graduation date: \_\_\_\_\_

Description of Individualized Curricular Emphasis:

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## General Education

(When Taken)	Course	Credit Hours
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### Area A

	ENGL 1101	3
	ENGL 1102	3
	MATH 1113 (If starting in 1190, see advisor regarding credit)	3

### Area B

	ANTH 2105 or GEOG 2105 or PSYC 2105 or SOCI 2105	2
	COM 1109 or FL 1002 or PHIL 2200	3

### Area C

	ENGL 2110	3
	ART 1107 or MUSI 1107 or THTR 1107	3

### Area D (science courses listed are recommended for math majors)

	MATH 1190 Calculus I	4
	CHEM 1211/1211L or PHYS 1111 or PHYS 2111/2111L	4
	CHEM 1212/1212L or PHYS 1112 or PHYS 2212/2212L	4

### Area E

	POLS 1101	3
	ECON 1100 or ECON 2100	3
	HIST 1110	3
	HIST 2112	3

### Area F (Lower Division Major Requirements)

	MATH 2202 Calculus II	4
	MATH 2203 Calculus III	4
	CSIS 2301 Programming Principles I	3
	Guided Electives: (List courses, total 6 credit hours)	

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### Free Electives

	(List courses)	12

	HPS 1000 <i>University Fitness for Living Requirement</i>	3
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**Upper Division Major Requirements**

Prerequisites

_____ MATH 3260	Linear Algebra with Applications	MATH 1190
_____ MATH 4361	Modern Algebra	MATH 3260
_____ MATH 4381	Introduction to Real Analysis	MATH 2202 & MATH 3260
_____ MATH 4700	Capstone Experience*	Department Approval

\* The Capstone Experience is an internship, project, or course which synthesizes skills mastered during the course of the program. Approval of the Math Department is REQUIRED for credit, and should be obtained in advance. See Capstone Guidelines, and your advisor. Description should be attached.

Choose 2 of:

_____ MATH 3310	Differential Equations	MATH 2202
_____ MATH 3322	Discrete Modeling I	MATH 1113 or MATH 2590
_____ MATH 3332	Probability and Statistical Inference	MATH 1190

**Major Electives** Choose 3 of: *(May not repeat courses just above)*

_____ MATH 3261	Computational Linear Algebra	MATH 3260 & CSIS 2301
_____ MATH 3310	Differential Equations	MATH 2202
_____ MATH 3322	Discrete Modeling I	MATH 1113 or MATH 2590
_____ MATH 3332	Probability and Statistical Inference	MATH 1190
_____ MATH 3333	Analysis of Variance and Regression	MATH 3332
_____ MATH 3396	Cooperative Study	Approval
_____ MATH 3398	Internship	Department Approval
_____ MATH 4322	Discrete Modeling II	MATH 3322 & CSIS 2301
_____ MATH 4345	Numerical Methods	MATH 3310 & CSIS 2301
_____ MATH 4400	Directed Study	Department Approval
_____ MAED 4416	Teaching of Mathematics	EDUC 3308 & Approval
_____ MAED 4475	Student Teaching: Mathematics	Admission to Student Teach
_____ MATH 4490	Special Topics in Mathematics	Department Approval
_____ MATH 4495	Secondary Math from Adv. Perspective	MATH 3260

**Interdisciplinary Electives (20 hours)**

CSIS above 2301: _____	CSIS 2301, possibly others
3000 level & above courses (15 hours):	Advisor approval, others
_____	_____
_____	_____
_____	_____
_____	_____

Other 2 hours:

\_\_\_\_\_

**Signatures:**

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

Curriculum Committee Chair: \_\_\_\_\_ Date: \_\_\_\_\_

Department Chair: \_\_\_\_\_ Date: \_\_\_\_\_

Note: This form is intended to summarize conveniently the 1998-2004 catalog requirements. Anywhere that the two conflict, the complete catalog will supercede this summary. Any student enrolled during this time is eligible to use these requirements for graduation.

Cc: Student    Advisor    Department files    Registrar    Curriculum Committee Chair