Contract for Mathematics Major

NAME: _____ **Class:**_____ **ID:**_____

Major/Concentration: _____ **Advisor:** _____

Write a brief statement about your reasons for majoring in mathematics and ideas about your post-graduate plans.

A Mathematics contract should contain at least seven intermediate or advanced courses in addition to Calculus and Linear Algebra. Consult the **Mathematics Majors Handbook** or the St. Olaf course catalog for more information. *Note:* Upper-level courses are not offered every semester or even every year. Please check the Course Planning Form for proposed future offering times and consult with the department chair for confirmation of an offering during a particular year/term.

Basic		**Year/Term**	**Instructor, Grade**
☐ 120	Calculus I		
☐ 126(8)	Calculus II		
☐ 220	Linear Algebra		

Introduction to Theory (check both)		**Year/Term**	**Instructor, Grade**
☐ 244	Elementary Real Analysis		
☐ 252	Abstract Algebra		

Applied Courses (check one or more)		**Year/Term**	**Instructor, Grade**
☐ 236	Mathematics of Biology		
☐ 266	Operations Research		
☐ S 272	Statistical Modeling		
☐ S 316	Advanced Statistical Modeling		
☐ S 322	Statistical Theory		
☐ 330	Differential Equations		
☐ 384	Topics in Applied Mathematics		
☐	Approved Seminar		
☐	Approved Course in Other Major		

Core Courses (check one or more)		Year/Term	Instructor, Grade
☐ 340	Complex Analysis		
☐ 344	Real Analysis		
☐ 348	Topology		
☐ 352	Abstract Algebra II		
☐ 356	Geometry		
☐ 364	Combinatorics		
☐ 370	Mathematical Logic		
☐ 382	Topics in Analytical Mathematics		
☐ 398	Independent Research		

Electives		Year/Term	Instructor, Grade
☐ S 212	Statistics for Sciences (w Bio Major)		
☐ 224	Investigative Mathematics		
☐ 226	Multivariable Calculus		
☐ 230	Elem. Differential Equations		
☐ 232	Discrete Mathematics		
☐ 234	Structure of Higher Mathematics		
☐ 238	Elementary Number Theory		
☐ 242	Modern Computational Mathematics		
☐ 248	Knot Theory		
☐ 262	Probability		
☐ 282	Topics in Analytical Math. (Level II)		
☐ 282	Seminar: Analytic		
☐ 390	Practicum		
☐ 298	Independent Study		

List the mathematical activities in which you are participating or planning to participate. (*e.g.* paper grading, tutoring, colloquium attendance).

Do you intend to get a secondary education teaching certificate? (Yes/No)

Discuss with Mathematics faculty member the ways in which your proposed contract provides for both breadth and depth, and ways in which it is appropriate in light of your goals and interests.

Faculty Signature: _____ **Date:** _____

Student Signature: _____ **Date:** _____

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Contract Approved: _____ **Date:** _____

Notified: ☐ **Student** ☐ **Faculty Member** ☐ **Advisor**

mlw: September 15, 2005; pz: November 1, 2005