Individualized Mathematics Proposal (IMaP) for a Math Major

Name: ______________________________ E-mail: ______________________________
Graduation year: ________ Advisor: ________________________________
Major(s) __________________________ Concentration(s) __________________________
Do you plan to get a mathematics (grades 5-12) teaching license? Yes ____ No ____

Write a brief statement about your reasons for majoring in mathematics and ideas about your postgraduate plans.

List outside-the-classroom mathematical activities in which you are participating or planning to participate (for example: MAA, grading, tutoring, attending colloquia, problem solving)

List mathematics, statistics, and computer science courses taken through AP or IB programs or at another college before coming to St. Olaf for which you received St. Olaf credit:

Directions: In the sections below, check the courses you plan to take or have taken (since coming to St. Olaf) to complete your math major.

Basic (all required unless completed before coming to St. Olaf)

<table>
<thead>
<tr>
<th>Course</th>
<th>Term, Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>Calculus I</td>
</tr>
<tr>
<td>126/8</td>
<td>Calculus II</td>
</tr>
<tr>
<td>220</td>
<td>Linear Algebra</td>
</tr>
</tbody>
</table>

Seven courses in addition to the basic courses are required. These must include:
- two transition courses
- one course from three of the following perspectives: Axiomatic/Algebraic (A), Continuous/Analytic (C), Discrete/Combinatorial (D), and Modeling/Computation (M)
- two Level III courses, at least one of which must be a Mathematics course
- a 200-300-level sequence of two courses, at least one of which must be a Mathematics course

A total of two approved courses from Statistics or Computer Science can be counted toward the mathematics major. You may be able to count one mathematics-related course from another department. If you wish to do so, list the course in the appropriate “other” blank and attach a paragraph explaining why you believe the course should be included as part of your major.

For more information on the requirements, see www.stolaf.edu/depts/math. NOTE: Some upper level courses are not offered every semester or even every year. Consult the department chair or the department website for confirmation of an offering during a particular term or year.

April 2010
**Perspectives** - Circle the perspective letters for the three courses you will use to satisfy the perspectives requirement. A course can only count for one perspective.

### Transition courses (at least two required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Perspectives</th>
<th>Term, Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>242</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>244</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>252</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

### Elective courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Perspectives</th>
<th>Term, Year</th>
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</thead>
<tbody>
<tr>
<td>226</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>C, M</td>
<td></td>
</tr>
<tr>
<td>232</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>238/239</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>262</td>
<td>C, D, M</td>
<td></td>
</tr>
<tr>
<td>266</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>2xx</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S 212</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>S 272</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>S 316</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>CS 231</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td>n/a</td>
</tr>
<tr>
<td>Other</td>
<td>Name:</td>
<td>submit paragraph</td>
</tr>
</tbody>
</table>

### Level III courses: two are required and at least one must be labeled Math 3xx. Circle a 200-level course in the “Sequence with” column that you’ll take and that meets the sequence requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sequence with</th>
<th>Term, Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>330</td>
<td>230</td>
<td></td>
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<tr>
<td>340</td>
<td>226</td>
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<td>344</td>
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<td>348</td>
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<td>352</td>
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<td>356</td>
<td>220</td>
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<tr>
<td>364</td>
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<tr>
<td>382</td>
<td>Det. by instr. #</td>
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</tr>
<tr>
<td>384</td>
<td>Det. by instr. #</td>
<td></td>
</tr>
<tr>
<td>390</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>396</td>
<td>Det. by instr. #</td>
<td></td>
</tr>
<tr>
<td>3xx</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S 322</td>
<td>262</td>
<td></td>
</tr>
<tr>
<td>CS 315</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>CS 333</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Name:</td>
<td>submit paragraph</td>
</tr>
</tbody>
</table>

Discuss your IMaP with an MSCS faculty member, then submit this form to Donna Brakke in RMS 307.

Student Signature ___________________________ Date ______________________

Faculty Signature ___________________________ Date ______________________

Approved by: ___________________________ MSCS chair Date: ______________________