# MATHEMATICS MAJOR CONCENTRATION CHECKLIST

For students matriculating Fall 2012 and after (and optionally for others)
(To be submitted with University Degree Sheet)

<table>
<thead>
<tr>
<th>Name:</th>
<th>I.D.#:</th>
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<tr>
<td>E-Mail Address:</td>
<td>College and expected graduation semester/year:</td>
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Other Major(s):
(Note: Submit a signed checklist with your degree sheet for each major.)

Please list courses by number. For transfer courses, list by title, and add “T”. Indicate which courses are incomplete, in progress, or to be taken.

Note: If substitutions are made, it is the student’s responsibility to make sure the substitutions are acceptable to the Mathematics Department.

Ten courses distributed as follows:

I. Five courses required of all majors. (Check appropriate boxes.)
If “in progress” or future semester, note semester.

| 1. Math 42: Calculus III or Math 44: Honors Calculus | Grade: |
| 2. Math 70: Linear Algebra or Math 72: Abstract Linear Algebra | Grade: |
| 3. Math 135: Real Analysis I | Grade: |
| 4. Math 145: Abstract Algebra I | Grade: |
| 5. Math 136: Real Analysis II or Math 146: Abstract Algebra II | Grade: |

We encourage all students to take Math 70 or 72 before their junior year. To prepare for the proofs required in Math 135 and 145, we recommend that students who take Math 70 instead of 72 also take another course above 50 (in the new numbering scheme) before taking these upper level courses.

II. Two additional 100-level math courses.

1. ___________________ Grade: ______
2. ___________________ Grade: ______

III. Three additional mathematics courses numbered 50 or higher (in the new numbering scheme); up to two of these courses may be replaced by courses in related fields including:
Chemistry 133, 134; Computer Science 15, 126, 160, 170; Economics 107, 108, 154, 201, 202; Electrical Engineering 18, 107, 108, 125; Engineering Science 151, 152; Mechanical Engineering 137, 138, 150, 165, 166; Philosophy 33, 103, 114, 170; Physics 12, 13 any course numbered above 30; Psychology 107, 108, 140.

1. ___________________ Grade: ______
2. ___________________ Grade: ______
3. ___________________ Grade: ______

Student’s signature: ___________________ Date: ____________
Advisor’s signature: ___________________ Date: ____________
Chair’s signature: ___________________ Date: ____________

Note: It is the student’s responsibility to return completed, signed degree sheets to the Office of Student Services, Dowling Hall.
(form revised September 2, 2015)