College of Engineering & Applied Science  
Master of Science Degree in Engineering  
~Integrated BS/MS Program of Study~

Guidelines in Developing the Program of Study

Students in the Integrated BS/MS Program, in consultation with the major professor, must develop a proposed Program of Study prior to the start of graduate courses. Six credits of the program are completed as part of the bachelor’s degree. The Program of Study must be approved by the Associate Dean of Graduate Programs and must meet the distribution requirements listed below. For subsequent changes, the student must file a revised Program of Study for approval. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students to have it count toward the MS degree. A U/G course will not be counted toward the graduate degree unless it was approved as part of the MS program of study prior to the start of the course.

MINIMUM CREDIT REQUIREMENTS

<table>
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<tr>
<th>Program Option</th>
<th>Overall Credit Requirement</th>
<th>Credit Distribution for Program</th>
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</thead>
</table>
| Thesis         | 6 course credits completed as part of BS  
18 course credits completed after admission to graduate status  
6 thesis credits  
Total 30 credits | 15 credits of approved technical program  
9 credits of approved electives  
6 thesis credits  
Minimum 15 course credits at or above 700 level |
| Non-Thesis*,**| 6 course credits completed as part of BS  
25 course credits completed after admission to graduate status  
Total 31 credits | 22 credits of approved technical program  
9 credits of approved electives  
Minimum 16 course credits at or above 700 level |

* After 12 credits of course work are completed, changes from thesis to non-thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from non-thesis to a thesis option. Departments may make a thesis a requirement (or preference) for employment for TA's, RA’s, and PA’s.

** Departments may offer the following options and publish appropriate guidelines:

Capstone Option – Course work plus 3 credit capstone project (see faculty advisor for details)
Course Option – 1.) Minimum 3.5 GPA on 30 credits of course work, including at least 15 credits of 700 or higher. 2.) Take and pass a master’s comprehensive examination offered at least once per semester. Department must provide written description (see faculty advisor for details). Complete description of Non-Thesis Option guidelines are available from CEAS/Graduate Programs Office.

INDEPENDENT STUDY REQUIREMENTS

Independent study (maximum 3 credits) must have prior approval of the Associate Dean of Graduate Programs before the course can added. The student should complete and submit an Independent Study approval form (available in EMS E379) to the Graduate Programs Office. This form should include the approval of the student’s advisor, the independent study supervisor and the department chair prior to submission for final approval.
# Integrated BS/MS Program

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>BS/MS credits</th>
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</thead>
</table>

Maximum 6 credits as part of the BS/MS program

## Recommendations for MS Program (advisor option)

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<tr>
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<tbody>
<tr>
<td>TECHNICAL PROGRAM</td>
<td></td>
</tr>
<tr>
<td>(Thesis Option – 15 cr. min.)</td>
<td>Course #</td>
</tr>
<tr>
<td>(Non-Thesis Option – 22 cr. min.)</td>
<td>Course #</td>
</tr>
<tr>
<td>Must include 700 level Graduate Seminar</td>
<td></td>
</tr>
<tr>
<td>APPROVED ELECTIVES</td>
<td></td>
</tr>
<tr>
<td>(9 cr. min.)</td>
<td>Course #</td>
</tr>
<tr>
<td>THESIS</td>
<td>(6 cr. min.)</td>
</tr>
</tbody>
</table>

SUBMITTED BY: _____________________________ DATE: ________________
Student

APPROVED BY: _____________________________ DATE: ________________
Major Professor

APPROVED BY: _____________________________ DATE: ________________
Associate Dean Graduate Programs

- 700 Level or higher requirement: Thesis Option is 15 credits (excluding Thesis); Non-Thesis Option is 16 credits.
- Coursework transferred from another institution must be approved by using the Application for Transfer of Off Campus Credits (following the appropriate guidelines as stated on the back of the application form). Form is available from the Graduate School.