M.S. in Chemical Engineering - Thesis Option (Plan A)

General Requirements
- 30 credits total (including thesis credits)
- 10 credits (minimum) of ECHM 590 Master's Thesis
- 21 or more credits required for degree must be at 5xx level
- 3xx level courses are not allowed
- 4xx level courses may be used
- Courses with grades below C- cannot be used to satisfy degree requirements
- Three credits (min.) registration required during term of:
  - Comprehensive Examination and Thesis defense
  - Graduation (1 credit with in absentee graduation request on file)

Course Requirements
The following courses are required of each MS student

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECHM 594</td>
<td>Seminar (can be taken twice)</td>
<td>1</td>
</tr>
<tr>
<td>ECHM 503</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECHM 533</td>
<td>Transport Phenomena</td>
<td>3</td>
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</tbody>
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Plus, a course in each of the following areas:
- Reaction Engineering
  - ECHM 510 Reaction Engineering/Modeling 3
    - or EBIO 566 Fundamentals of Biofilm Engr
- Advanced Mathematics
  - EGEN 505 Advanced Engineering Analysis 3
    - or EGEN 506 Numerical Sol to Engr Problems

Each student's graduate advisor and committee are to work with the student to prepare a Program of Study listing the courses the student is required to take.

Examinations
For Thesis Option (Plan A) students, the thesis defense and comprehensive examination are combined.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.