# Master of Science in Bioinformatics, Bioengineering Concentration

## Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 599</td>
<td>Thesis Research (min applied toward degree)</td>
<td>4</td>
</tr>
<tr>
<td>BIOE 504</td>
<td>Analytical Methods in Bioeng</td>
<td>4</td>
</tr>
<tr>
<td>or BIOE 505</td>
<td>Computational Bioengineering</td>
<td></td>
</tr>
</tbody>
</table>

One course from the approved Bioinformatics list of Computer Sciences core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course from the approved Bioinformatics list of Biology core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course from the approved Bioinformatics list of Bioinformatics core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course in systems biology from departmental list (http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives)  
Elective Courses (http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives)  

**Total Hours:** 32

## Other Requirements and Conditions

A concentration is required.  
A minimum of 12 500-level credit hours overall applied toward the degree, with 8 hours being Bioengineering courses; a maximum of 2 hours of seminar courses can be counted to towards these 12 hours.  
The non-thesis option is only available with permission of the advisor. Requirements include an additional 8 hours of elective courses which, with the approval of an advisor, may include supervised research experiences including internships and projects.  
Minimum GPA: 3.0

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## Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 504</td>
<td>Analytical Methods in Bioeng</td>
<td>4</td>
</tr>
<tr>
<td>or BIOE 505</td>
<td>Computational Bioengineering</td>
<td></td>
</tr>
</tbody>
</table>

One course from the approved Bioinformatics list of Computer Sciences core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course from the approved Bioinformatics list of Biology core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course from the approved Bioinformatics list of Bioinformatics core courses (http://www.informatics.illinois.edu/academics/bioinformatics-ms/bioinformatics-ms-core-courses)  
One course in systems biology from departmental list (http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives)  
Elective Courses (http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives)  

**Total Hours:** 36

## Other Requirements and Conditions

Other Requirements and Conditions may overlap

A concentration is required.  
A minimum of 12 500-level credit hours overall applied toward the degree, with 8 hours being Bioengineering courses; a maximum of 2 hours of seminar courses can be counted to towards these 12 hours.  
The non-thesis option is only available with permission of the advisor. Requirements include an additional 8 hours of elective courses which, with the approval of an advisor, may include supervised research experiences including internships and projects.  
Minimum GPA: 3.0

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1 For additional details and requirements for all degrees, please refer to the department’s Graduate Studies Web site (http://bioengineering.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).