# MASTER OF SCIENCE IN BIOINFORMATICS, BIOENGINEERING CONCENTRATION

## Thesis Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit 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](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](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](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](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](http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives))

**Total Hours**

**32**

## Other Requirements and Conditions

1. A concentration is required.
2. 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 towards these 12 hours.

Minimum GPA: 3.0

## Non-Thesis Option

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</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](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](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](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](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](http://bioengineering.illinois.edu/graduate-programs/prospective-graduate-students/bioengineering-courses-illinois/#electives))

**Total Hours**

**36**

## Other Requirements and Conditions

1. A concentration is required.
2. 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 towards these 12 hours.

Minimum GPA: 3.0

1. 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.

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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/graduate-programs/current-graduate-students](http://bioengineering.illinois.edu/graduate-programs/current-graduate-students)) and the Graduate College Handbook ([http://grad.illinois.edu/gradhandbook](http://grad.illinois.edu/gradhandbook)).