BIOLOGY (MS)

Master of Science in Biology
Unit: College of Arts and Sciences (http://louisville.edu/artsandsciences/) (GA)
Department: Biology (http://louisville.edu/biology/)
Program Website (http://louisville.edu/biology/graduate/)
Academic Plan Code(s): BIOLMS_THE, BIOLMS_NTH, BIOLMS_NAC

Program Information
The degree program is available to qualified individuals possessing a bachelor’s degree from an accredited college or university. A biology undergraduate major is preferred. However, other majors containing sufficient biology, chemistry and math may be acceptable.

The Department of Biology offers master’s degrees with programs of study tailored to the needs and interests of a diverse student population. Students may enroll on a full or part-time basis. The Department of Biology offers both thesis and non-thesis options. The thesis option is generally chosen by students with career goals which include a research emphasis. Students choosing this option take coursework and carry out an intensive independent research project under the supervision of a member of the Graduate Faculty, culminating in a written thesis based upon the research project. The non-thesis option is usually chosen by those who wish to advance their knowledge of biology but are not sure of a specific career goal or do not anticipate a research emphasis in their future.

Accelerated BA-BS/MS in Biology
Students who wish to pursue an accelerated non-thesis master’s degree in Biology (BA-BS/MS) will be allowed to apply up to nine (9) credit hours of coursework taken for graduate credit while enrolled as an undergraduate. An additional 24 credit hours of graduate coursework will constitute the minimum number of credit hours for obtaining the non-thesis masters in the accelerated program.

Admission Requirements
Program admission requirements and application procedures can be viewed on the Department of Biology website (http://louisville.edu/biology/). Questions can be addressed to or further information obtained from the Director of Graduate Studies, Dr. Sarah Emery, at (502) 852-5940 or sarah.emery@louisville.edu (smemer03@louisville.edu).

The following requirements/standards apply to applicants to the MS program in the Department of Biology.

a. The applicant must have a baccalaureate degree with a major in Biology or an acceptable sub-discipline, with an undergraduate GPA of 3.0 or higher.
b. While there is no minimum requirement for GRE scores, competitive students usually have scores around the 50th percentile or better on the general GRE test (verbal + quantitative). MCAT or DAT test scores at similar percentiles are also acceptable. NOTE: SUBMISSION OF GRE SCORES IS OPTIONAL FOR ALL APPLICANTS THROUGH SPRING 2025. WE SUGGEST ONLY SUBMITTING SCORES IF THEY WILL HELP PROVIDE A MORE HOLISTIC PERSPECTIVE TO YOUR APPLICATION. GRE SCORES ARE NOT USED FOR FUNDING DECISIONS.

c. For foreign students, a TOEFL score of 83 on the internet-based exam, at least 6.5 on the IELTS exam is required or Duolingo score of 105 (students holding a baccalaureate or advanced degree from an accredited institution in the United States or other English-speaking country are exempt from this requirement).

Deadline for Completed Applications
• July 1 for Fall admission
• November 1 for Spring admission.

Application Materials
Applications will be complete when the following materials have been received (final action on applications will not be taken until complete):

• A completed graduate application (https://louisville.edu/graduate/futurestudents/apply-materials/application/) form and fee
• Official transcripts of all previous undergraduate and graduate coursework. All academic credentials not in English must be accompanied with a notarized verbatim English translation.
• Official GRE, MCAT or DAT exam scores (optional)
• Two or more letters of recommendation from persons familiar with your academic performance and capabilities
• Official TOEFL, IELTS or Duolingo scores if required.

Send to:

Official documentation should be sent to the Graduate School.

Program Requirements
MS in Biology and Accelerated BA-BS/MS in Biology
Thesis option students are required to complete a minimum of 30 credit hours; non-thesis option students must complete a minimum of 33 credit hours.

A minimum of 12 (thesis option) or 17 (non-thesis option) credit hours, exclusive of thesis credit, must be in courses at the 600 level. Students intending to seek a PhD degree later are advised to take as many of their courses as possible at the 600 level or above.

Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 650</td>
<td>Advanced Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12-14</td>
</tr>
<tr>
<td>Thesis Research (600 level)</td>
<td></td>
<td>6</td>
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Minimum Total Hours 30
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 650</td>
<td>Advanced Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 691</td>
<td>Independent Research</td>
<td>3-4</td>
</tr>
<tr>
<td>Electives</td>
<td>13-17</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours 33

1 Courses to be selected by student's committee: one course from each of two (thesis option) or three (non-thesis option) Background Coursework categories.