
What is a Thesis Course?

Thesis courses and research projects are available to Honours Biochemistry students in their third and fourth years. They are independent research projects done under the supervision of a principle investigator (PI). The PI may be a faculty member within the Department of Biochemistry & Biomedical Sciences, or outside the department if their research is relevant or related to biochemistry.

A thesis is required of students in Honours Biochemistry - Biomedical Research Specialization (B.Sc.), with and without co-op. Non-specialized (core) Honours Biochemistry students may optionally take a thesis. In both cases a thesis is valuable, and provides first-hand experience with research.

Courses

Third Year:

<table>
<thead>
<tr>
<th>BIOCHEM 3A03</th>
<th>BIOCHEM 3R06</th>
</tr>
</thead>
<tbody>
<tr>
<td>• A one semester research project</td>
<td>• A two term project</td>
</tr>
<tr>
<td>• 8 hours/week in lab</td>
<td>• 8 hours/week in lab</td>
</tr>
<tr>
<td>• Evaluated on lab performance and a final report</td>
<td>• Evaluated on laboratory performance and a final report</td>
</tr>
</tbody>
</table>

Fourth year:

<table>
<thead>
<tr>
<th>BIOCHEM 4Z03</th>
<th>BIOCHEM 4F09</th>
<th>BIOCHEM 4T15</th>
</tr>
</thead>
<tbody>
<tr>
<td>• A one semester senior project</td>
<td>• A two semester senior project</td>
<td>• A two semester senior project</td>
</tr>
<tr>
<td>• 8 hours/week in lab</td>
<td>• 12 hours/week in lab</td>
<td>• 20 hours/week in lab</td>
</tr>
<tr>
<td>• Evaluated on a final report and lab performance</td>
<td>• Evaluated on a lab performance, a literature review, an oral presentation, and a written thesis</td>
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</tbody>
</table>

Second-year students interested in 3A03/3R06 are recommended to start looking for a position in January. Please note that a third year project is not required, even for specialization students. Permission forms for third-year projects are not accepted until January.

Third-Year specialization students are recommended to start their thesis search September/October. Core students are recommended to start their search in January. Permission forms for core students will not be accepted until January.
New 2019-2020

Third-year specialization students will be enrolled in an Avenue to Learn course centered around their thesis search. Here, you will find the specialization-student permission form and additional thesis search information. Specialization students are subject to three due dates before the end of January. At each of these dates, the student must submit either a completed permission form, or an action plan summary of their thesis search to date. Due dates for 2020-2021 are:

November 2\textsuperscript{nd} – Permission Form or Action Plan Template
November 30\textsuperscript{th} – Permission Form or Action Plan Template
January 18\textsuperscript{th} – Permission Form or Action Plan Template

Finding a supervisor

1. **Research** McMaster faculty, find several with research that aligns with your interests
   a. For a list of Biochemistry and Biomedical Sciences faculty members, please see: [https://healthsci.mcmaster.ca/biochem/about-us/people](https://healthsci.mcmaster.ca/biochem/about-us/people)
   b. Clinical-based thesis placements are not permitted

2. **Email**
   a. Introduce yourself & explain why you are writing
      i. Use professional tone with interest and appreciation
   b. Explain your qualifications
      i. Knowledge of topics, soft skills
      ii. Highlight ability to contribute and alignment of research goals
   c. Attach your CV & an unofficial transcript (.pdf)
      i. Make reference to attachments in the closer of your email
   d. CC the PI's administrative assistant, if applicable

*Tips: Be sincere, be concise. Why are you interested? Look into their research and current work, explain why it is interesting to you.*

3. **Set a Meeting/Interview**
   a. Be polite, courteous, and professional
   b. Show enthusiasm for their research & be knowledgeable of their current work
   c. Make sure to thank them before you leave, or send a thank-you email

4. **Follow-up**

5. **Complete your Permission form**
   a. Permission forms may be found at: [https://healthsci.mcmaster.ca/biochem/education/undergraduate/forms-and-procedures](https://healthsci.mcmaster.ca/biochem/education/undergraduate/forms-and-procedures)
   b. Completed permission forms for 3A03/3R06 should be emailed to biochemistryadvisor@mcmaster.ca. Permission forms for 4Z03/4F09/4T15 should be emailed to bcthesis@mcmaster.ca.

*Adapted from the Biochemistry and Biomedical Sciences Society Thesis Guide and Survival Guide & 2019 presentation slides by Nancy McKenzie*