PREREQUISITES, REQUIREMENTS AND GUIDELINES

The Life Sciences category includes science courses offered through College of Biological Sciences (CBS) as its core. Courses offered by non-CBS departments may be considered when appropriate, as a complement to a core series of CBS courses. Examples of those biology-related courses offered through other colleges are Human Anatomy, Physiology, Statistics, and Pharmacology. The Life Sciences committee's role is to evaluate a student's science courses to ensure they provide the foundational knowledge needed to support the student's long-term plans.

Prerequisites
Before submitting an ICP proposal with a Life Science concentration, students must complete the two prerequisites below. Courses must be completed with a C- or better.

1. CHEM 2301 (Organic Chemistry I)
2. BIOL 2002 (Foundations of Biology I), OR BIOL 2003 (Foundations of Biology II), OR BIOL 1009 (General Biology)

Requirements and Guidelines

- Students proposing a Life Sciences concentration must include BIOC 3021 (Biochemistry) in their course list.
- All proposed courses must be a minimum of 3xxx-level.
  - The only exception is CHEM 2302 (Organic Chemistry II), which can count as an upper-division course for the Life Sciences concentration.
- Life Sciences proposals should be discussed with the CBS IDP advisor Zack Gill (zgill@umn.edu) from the College of Biological Sciences Student Services office prior to official submission. The best way to make an appointment with Stefanie is to call the main line for CBS Student Services at (612)624-9717.
- The faculty review committee considers the student’s career goals, and assesses whether the proposed Life Sciences courses will support a program with those stated goals. In addition, the committee assesses the course rigor (e.g. whether the course could fulfill a CBS major requirement). The faculty review committee may suggest or require additional or different courses that it thinks would be useful or necessary.
  - Examples of interest areas and potential courses are listed below. This list is not exhaustive, and students can propose classes outside of these topics and courses:
    - Biology
      - BIOL3211: Physiology of Humans and Other Animals
      - GCD3022: Genetics
      - GCD3033: Cell Biology:
      - MICB3301/3303: Biology of Microorganisms
      - BIOL3002&3005W: Plant Biology & Plant Function Laboratory
- Ecology, Evolution, and Behaviors
  BIOL3211: Physiology of Humans and Other Animals
  EEB3407: Ecology
  EEB3409: Evolution
  EEB3411: Introduction to Animal Behavior
- Genetics
  GCD3022: Genetics
  GCD3033: Cell Biology
  GCD4143: Human Genetics
- Physiology
  BIOL3211: Physiology of Humans and Other Animals
  OR PHSL3051: Human Physiology
  OR PHSL3061: Principles of Physiology
  ANAT3601 & ANAT3602: Principles of Human Anatomy & Lab
  GCD3022: Genetics
  GCD3033: Cell Biology
- Neurobiology
  NSCI3101: Introduction to Neurobiology I
  NSCI4100: Development of the Nervous System
  NSCI4105: Neurobiology Laboratory I

- Proposed and approved courses must be completed with a C- or better.
- Once a course plan is approved, a student will be allowed to submit no more than two revised proposals. The student must provide a strong rationale for changing an approved course plan. There is no guarantee that newly proposed courses will be approved.

**Timeline**

<table>
<thead>
<tr>
<th>Prior to proposal submission</th>
<th>Meet with the CBS IDP advisor, Zack Gill to discuss your plan for Life Sciences concentration. Please call (612)624-9717 to make an appointment with Zack.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Within the first 4 weeks of the semester (Deadline: Friday on the 4th week of the semester)</strong></td>
<td>Your proposal needs to be submitted electronically to the CBS IDP advisor (<a href="mailto:zgill@umn.edu">zgill@umn.edu</a>).</td>
</tr>
<tr>
<td><strong>Upon your submission</strong></td>
<td>You will receive a confirmation email for receipt of your proposal.</td>
</tr>
<tr>
<td><strong>Within 4 weeks after the submission</strong></td>
<td>The CBS faculty committee will meet to review your proposal.</td>
</tr>
<tr>
<td><strong>4-5 weeks after the submission</strong></td>
<td>You will receive a letter with feedback from the committee. The result is also communicated to the ICP office.</td>
</tr>
<tr>
<td><strong>Before your registration time</strong></td>
<td>Make any revisions, if needed, based on the feedback from the committee and resubmit the proposal.</td>
</tr>
</tbody>
</table>