BIS DEGREE PROGRAM
LIFE SCIENCES THROUGH CBS

PREREQUISITES, REQUIREMENTS AND GUIDELINES

The Life Sciences category is quite broad and includes not only courses offered through CBS (College of Biological Sciences), but also biology-related courses offered through other colleges such as: Human Anatomy, Physiology, Statistics, Animal Science, Psychology, Biomedical Engineering, 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 a BIS proposal with a Life Sciences concentration, students must complete the prerequisites below. Courses must be completed with a C- or better.

1. CHEM 2301 (Organic Chemistry I) OR BIOC 2331 (Chemical Mechanisms in Biology)
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) OR BIOC 4331 (Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems) 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 Individualized Degree Program (IDP) advisor Aya Maruyama from the College of Biological Sciences Student Services office prior to official submission. The best way to make an appointment with Aya 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 previously accepted course areas are listed below. This list is not exhaustive, and students can propose classes outside of these topics:
    - Behavior
    - Cognition
    - Evolution
    - Social behavior
    - Physiology
    - Biochemistry
    - Genetics
    - Microbiology
    - Cell Biology

July 9, 2013
- 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, Aya Maruyama, to discuss your plan for Life Sciences concentration. Please call (612)624-9717 to make an appointment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit your proposal to the BIS office by the official deadline.</td>
<td>Your proposal needs to be submitted electronically to the BIS office and they will forward your course worksheet and proposal to CBS.</td>
</tr>
<tr>
<td>Upon your submission</td>
<td>You will receive a confirmation email from CBS for receipt of your proposal.</td>
</tr>
<tr>
<td>Within 4 weeks after the submission</td>
<td>The CBS faculty committee will meet to review your proposal.</td>
</tr>
<tr>
<td>4-5 weeks after the submission</td>
<td>You will receive a letter from CBS with feedback from the committee. The result is also communicated to the BIS office.</td>
</tr>
<tr>
<td>Before your registration time for the upcoming semester</td>
<td>Make any revisions, if needed, based on the feedback from the committee and resubmit the proposal for final approval.</td>
</tr>
</tbody>
</table>