Student Name/ID: _____________________________________  Purpose: ______________________________        Date: ___________________

Credit hours:
Currently enrolled in: ______ semester: ______________
Currently enrolled in: ______ semester: ______________

AFTER SUCCESSFUL COMPLETION OF CURRENT ENROLLMENT, YOU NEED THE FOLLOWING:

### IUB GENERAL EDUCATION REQUIREMENTS:

- **Foundations:**
  - English Composition (minimum grade of C required)
  - Mathematical Modeling (fulfilled by major)
- **Breadth of Inquiry:**
  - Arts & Humanities (A&H)–6 credits; need: ______
  - Social & Historical (S&H)–6 credits; need: ______
  - Natural & Mathematical (N&M)–(fulfilled by major)
- **World Languages & Cultures:**
  - World Language–4th semester proficiency
  - OR World Cultures–6 credits
  - OR Approved international experience
- GenEd residency complete: Yes  No  If no, you need: ______

### TOTAL HOURS REQUIREMENTS:

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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</thead>
<tbody>
<tr>
<td>Major Hours</td>
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<tr>
<td>Total College Hours</td>
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<tr>
<td>Total Credit Hours</td>
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<tr>
<td>300-499 level Hours</td>
<td>36</td>
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<td>IUB COLL. Res. after 60 Hours</td>
<td>36</td>
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</tbody>
</table>

**IPRP (in-progress repeated course):** Yes  No
If yes, credit hours showing as needed in your AAR may not be accurate. Ask an advisor!

**College GPA of at least 2.000 is required. _____**

### CASE REQUIREMENTS:

- Public Oral Communication (COLL-P 155)
- English Composition
- Mathematical Modeling (fulfilled by major)
- Critical Approaches to the Arts and Sciences–must be done at IUB
- CASE A&H–2 courses; will count 2 GenEd A&H here; need: ______
- CASE S&H–2 courses; will count 2 GenEd S&H here; need: ______
- CASE N&M–4 courses; fulfilled by major
- Intensive Writing (IW)–must be done at IUB inside the College
- Foreign Language (FL)–3rd semester proficiency
- CASE Culture Studies: Diversity in U.S. course–must be done at IUB

### BIOLOGY MAJOR REQUIREMENTS:

**Major requirements must be completed with a C- or better. ★ Chemistry, physics, statistics, and math Addenda Requirements must be completed with a C- or better, but they do not count toward major GPA or major hours.**

- 30 major hours: _____ needed
- 18 BIOL hours at 300-499 level: _____ needed
- Major GPA and concentration GPA ≥ 2.000. Major GPA: _____  Concentration GPA: _____

**BIOLOGY**

- BIOL-L 111
- BIOL-L 112
- BIOL-L 113 [or BIOL-X 150 or BIOT-X 150]
- BIOL-L 211 (P: L 112 and CHEM-C 117)
- BIOL-L 311
- BIOL-L 318

- Four Biology lectures (see reverse for list)
  - ____________________________ (IUB)
  - ____________________________ (IUB)
  - ____________________________ (Advanced Skills)
  - ____________________________

- Two Biology labs (see reverse for list)
  - ____________________________ (IUB)
  - ____________________________ (IUB)

Lectures + labs must = at least 15 credit hours

**CHEMISTRY**

- CHEM-C 117 and CHEM-C 127
- CHEM-C 341
- CHEM-C 342
- CHEM-C 343

**PHYSICS**

- PHYS-P 201
- PHYS-P 202

**STATISTICS**

- EAS-E 314, PSY-K 300/K 310, SOC-S 371, SPEA-K 300, LAMP-L 316, MATH-M 365, OR STAT-S 300/S 303

**MATH**

- MATH-M 211 OR
- MATH-M 119 and MATH-M 120 OR
- MATH-V 119 and MATH-M 120
Biology B.S. degree with Area of Concentration: Integrative & Organismal Biology

The following must equal at least 15 credit hours. Two of the upper-level lectures and both of the upper-level labs must be taken on the IU Bloomington campus.

Lecture Courses*

**Physiological Systems Biology Lectures. Two (2) courses:**
- BIOL-B 371 Ecological Plant Physiology (3 cr., Advanced Skills, fall)
- BIOL-L 321 Human Immunology (3 cr., spring)
- BIOL-L 410 Topical Issues in Biology (2–3 cr., D.U.S. approval required)
- BIOL-L 417 Stem Cells in Devel., Disease, Regen. (3 cr., Advanced Skills, spring)
- BIOL-L 423 Brain, Behavior and Evolution (3 cr., Advanced Skills, rarely offered)
- BIOL-L 451 Integrative Human Physiology (4 cr., fall and spring)
- BIOL-Z 462 Genetics of Behavior (3 cr., Advanced Skills, spring)
- BIOL-Z 463 Comp. Neurobio. of Animal Behavior (3 cr., Advanced Skills, fall)
- BIOL-Z 466 Endocrinology (3 cr., Advanced Skills, variable, fall)
- PHS-L-P 416 Comparative Animal Physiology (3 cr., fall)
- PSY-P 466 Molecular and Cellular Neurobiology (3 cr., fall, P: PSY-P 346)

**Organism-Level Biology Lectures. Two (2) courses:**
- BIOL-B 351 Fungi (3 cr., on hiatus)
- BIOL-L 376 Biology of Birds (4 cr., fall and spring)
- BIOL-L 410 Topical Issues in Biology (2–3 cr., D.U.S. approval required)
- BIOL-L 453 Sensory Ecology (3 cr., Advanced Skills, fall)
- BIOL-M 460 Microbial Evolution (3 cr., Advanced Skills, rarely offered)
- BIOL-Z 373 Entomology (3 cr.) (fall and summer)
- BIOL-Z 374 Invertebrate Zoology (3 cr.) (alternate fall semesters)
- BIOL-Z 406 Vertebrate Zoology (5 cr., spring)
- BIOL-Z 460 Animal Behavior (3 cr., Advanced Skills, fall and spring)
- BIOL-Z 476 Biology of Fishes (3 cr., alternate fall semesters)

* AT LEAST ONE (1) OF THE FOUR REQUIRED LECTURE CLASSES ABOVE MUST BE AN ADVANCED SKILLS COURSE FROM THE ADVANCED SKILLS LECTURE LIST:

**Advanced Skills Lecture list**
- BIOL-B 371 Ecological Plant Physiology (3 cr.) (fall)
- BIOL-L 417 Stem Cells in Development, Disease, Regeneration (3 cr.) (spring)
- BIOL-L 423 Brain, Behavior and Evolution (3 cr.) (rarely offered)
- BIOL-L 453 Sensory Ecology (3 cr.) (fall)
- BIOL-M 460 Microbial Evolution (3 cr., rarely offered)
- BIOL-Z 460 Animal Behavior (3 cr.) (fall and spring)
- BIOL-Z 462 Genetics of Behavior (3 cr.) (spring)
- BIOL-Z 463 Comparative Neurobiology of Animal Behavior (3 cr.) (fall)
- BIOL-Z 466 Endocrinology (3 cr.) (variable, fall)

**Laboratory Courses. Two (2) courses:**
- ABEH-A 350 Animal Behavior Laboratory (3 cr.) (fall) – it's out of alphabetical order in the Bulletin lab list, but it's approved!
- ANAT-A 464 Human Tissue Biology (4 cr.) (fall and spring)
- BIOL-B 300 Vascular Plants (4 cr.)
- BIOL-B 352 Fungi: Laboratory (2 cr., on hiatus)
- BIOL-B 364 Summer Flowering Plants (4 cr., on hiatus)
- BIOL-L 376 Biology of Birds (4 cr.) (fall and spring)
- BIOL-L 433 Tropical Biology (3 cr.) (oversea study in December or May)
- BIOL-P 451 Integrative Human Physiology (4 cr.) (fall and spring)
- BIOL-S 318 Evolution, Honors (4 cr.) (fall and spring) – Important: only 1 credit hour of BIOL-S 318 may count toward Concentration Hours
- BIOL-Z 373 Entomology (3 cr.) (fall and summer)
- BIOL-Z 375 Invertebrate Zoology Laboratory (2 cr.) (fall)
- BIOL-Z 406 Vertebrate Zoology (5 cr.) (spring)
- BIOL-Z 469 Endocrinology Laboratory (2 cr.) (spring)
- PSY-P 473 Laboratory in Molecular Neuroscience (4 cr., P: PSY-P 346)
- ASURE students: BIOL-X 325 ASURE Biology Research Lab 2 (3 cr.) requires approval of D.U.S. to count in this Area of Concentration

Notes:
- Except for the GPA requirement, a grade of C- or higher is required for a course to count toward a requirement in the concentration.
- A GPA of at least 2.000 for all courses taken in the concentration—including those where a grade lower than C- is earned—is required.
- Most courses have prerequisites. Always check the Bulletin and the Schedule of Classes for course information before taking a course.

Subplan code: INORGBICON