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
- 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>Requirement</th>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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</thead>
<tbody>
<tr>
<td>Major Hours (A)</td>
<td>30</td>
<td></td>
<td></td>
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<tr>
<td>College Elective Hours (B)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective Outside Hours (C)*</td>
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<td>0</td>
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</tr>
<tr>
<td>Total College Hours (A+B)</td>
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<td>Total Credit Hours (A+B+C)</td>
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<tr>
<td>300/400-level Hours</td>
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<tr>
<td>IUB COLL. Res. after 60 credits</td>
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*Maximum of 20 Elective Outside Hours (C) allowed

IPRP: Yes  No  If yes, needed credit hours may not be accurate.

Overall College GPA of 2.00 or higher 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; need: ______
- CASE S&H–2 courses; will count 2 GenEd; need: ______
- CASE N&M–fulfilled by major
- Intensive Writing (IW)–must be done at IUB inside the College
- Foreign Language (FL)–3rd semester proficiency

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

IUB GENERAL EDUCATION REQUIREMENTS:
Foundations:
- English Composition
- 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:

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*Maximum of 20 Elective Outside Hours (C) allowed

IPRP: Yes  No  If yes, needed credit hours may not be accurate.

Overall College GPA of 2.00 or higher is required.

BIOSCIENCE MAJOR REQUIREMENTS:

Major requirements must be completed with a C- or better.

- 30 BIOL hours: _____ needed
- 18 BIOL hours at the 300/400 level: _____ needed

- Major GPA of 2.00 or higher. Major GPA: ______

BIOL
- BIOL-L 111
- BIOL-L 112
- BIOL-L 113
- 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 18 credit hours

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

PHYSICS
- PHYS-P 201
- PHYS-P 202

STATISTICS
- PSY-K 300/310, SOC-S 371, SPEA-K 300, LAMP-L 316 OR STAT-S 300/303

MATH
- MATH-M 211 OR
- MATH-M 119 and M 120 OR
- MATH-V 119 and M 120

* Maximum of 20 Elective Outside Hours (C) allowed

IUB COLLEGE RESIDENCY after 60 credits

36

Overall College GPA of 2.00 or higher is required.
Biology B.S. degree with Area of Concentration: Integrative & Organismal Biology

The following must equal at least 18 credit hours to fulfill the requirement for the Area of Concentration. **Two** of the upper-level lectures and **both** of the upper-level labs must be taken on the IU Bloomington campus.

**Lecture Courses***

Complete **two** of the following lectures in **organism-level biology**:

- BIOL-B 351 Fungi (3 cr.)
- BIOL-L 376 Biology of Birds (4 cr.)
- BIOL-L 453 Sensory Ecology (3 cr., **Advanced Skills**)
- BIOL-M 460 Microbial Evolution (3 cr., **Advanced Skills**) (P: BIOL-M 250)
- BIOL-Z 373 Entomology (3 cr.)
- BIOL-Z 374 Invertebrate Zoology (3 cr.)
- BIOL-Z 406 Vertebrate Zoology (5 cr.)
- BIOL-Z 460 Animal Behavior (3 cr., **Advanced Skills**)
- BIOL-Z 476 Biology of Fishes (3 cr.)

Complete **two** of the following lectures in **physiological systems biology**:

- BIOL-B 371 Ecological Plant Physiology (3 cr., **Advanced Skills**)
- BIOL-L 321 Principles of Immunology (3 cr.)
- BIOL-L 417 Stem Cells in Development, Disease, and Regeneration (3 cr., **Advanced Skills**)
- BIOL-L 423 Brain, Behavior and Evolution (3 cr., **Advanced Skills**)
- BIOL-P 451 Integrative Human Physiology (4 cr.)
- BIOL-Z 463 Comparative Neurobiology of Animal Behavior (3 cr., **Advanced Skills**)
- BIOL-Z 466 Endocrinology (3 cr., **Advanced Skills**)
- PSYL-P 416 Comparative Animal Physiology (3 cr.)
- PSY-P 473 Laboratory in Molecular Neuroscience (4 cr.)

* Of the four required lecture classes above, **at least one must be an Advanced Skills course** from the list below:

**Advanced Skills Courses**

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

**Laboratory Courses**

Complete at least **two** of the following lab courses (courses must be different from those taken to fulfill the requirements shown at left):

- ANAT-A 464 Human Tissue Biology (4 cr.)
- BIOL-B 300 Vascular Plants (4 cr.)
- BIOL-B 352 Fungi Laboratory (2 cr.)
- BIOL-B 364 Summer Flowering Plants (4 cr.)
- BIOL-L 376 Biology of Birds (4 cr.)
- BIOL-L 433 Tropical Biology (3 cr.)
- BIOL-P 451 Integrative Human Physiology (4 cr.)
- BIOL-Z 373 Entomology (3 cr.)
- BIOL-Z 375 Invertebrate Zoology Laboratory (2 cr.)
- BIOL-Z 406 Vertebrate Zoology (5 cr.)
- BIOL-Z 469 Endocrinology Laboratory (2 cr.)
- PSY-P 473 Laboratory in Molecular Neuroscience (4 cr.)

**Notes:**  
BIOL-L 410 Topical Issues in Biology (2–3 cr.) may be used toward the Area of Concentration, depending on the topic covered and with approval of the Director of Undergraduate Studies.

**Only 1 credit hour** of BIOL-S 318 Evolution, Honors may be used toward the Area of Concentration lab requirement (not all 4 credit hours). Since 4 lectures + 2 labs must equal 18 credit hours minimum, it will be to most students’ advantage not to select BIOL-S 318 in order to fulfill a lab for this Area of Concentration.

**Most courses have prerequisites. Always check the Bulletin and the Schedule of Classes for course information before taking a course.**

Subplan code: INORGBICON