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

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

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
- 15 concentration hours: ______ needed
- Major GPA and concentration GPA ≥ 2.000. Major GPA: ______  Concentration GPA: ______

★ 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 310/K 310, SOC-S 371, SPEA-K 300, SPH-Q 381, 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

TOTAL HOURS REQUIREMENTS:

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<th>Required</th>
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<th>Needed</th>
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<tr>
<td>Major Hours</td>
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<td>Total Credit Hours</td>
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<td>300-499 level Hours</td>
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<td>IUB COLL. Res. after 60 Hours</td>
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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. _____
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 Developmental Biology & Stem Cells (3 cr., Advanced Skills, spring)
- BIOL-L 423 Brain, Behavior and Evolution (3 cr., Advanced Skills, rarely offered)
- BIOL-P 451 Integrative Human Physiology (4 cr., fall and spring)
- BIOL-Z 462 Genetics of Behavior (3 cr., Advanced Skills, spring)
- BIOL-Z 463 Comparative Neurobiology of Animal Behavior (3 cr., fall)
- BIOL-Z 466 Endocrinology (3 cr., Advanced Skills, variable, fall)
- PHSL-P 416 Comparative Animal Physiology (3 cr., fall)
- PSY-P 466 Molec. and Cellular Neurobio. (3 cr., usually fall, P: PSY-P 346)

*Organism-Level Biology Lectures. Two (2) courses:*

- ABEH-A 401 (3 cr., variable)
- 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, P or C: BIOL-Z 460)
- BIOL-M 460 Microbial Evolution (3 cr., Advanced Skills, on hiatus)
- 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 469 Endocrinology Laboratory (2 cr.) (spring, rarely offered)
- BIOL-Z 466 Endocrinology (3 cr., variable, fall)

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

**Advanced Skills Lecture list**

- BIOL-B 371 Ecological Plant Physiology (3 cr.) (fall)
- BIOL-L 417 Developmental Biology & Stem Cells (3 cr.) (spring)
- BIOL-L 423 Brain, Behavior and Evolution (3 cr.) (rarely offered)
- BIOL-L 453 Sensory Ecology (3 cr.) (variable, P or C: BIOL-Z 460)
- 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.) (spring)
- BIOL-B 332 Fungi Laboratory (2 cr., on hiatus)
- BIOL-B 364 Summer Flowering Plants (4 cr.) (summer, 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, rarely offered)
- PSY-P 473 Lab in Molecular Neuroscience (4 cr., fall and spring, 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.