

B.S. IN BIOLOGY (AOC: Biology of Disease) – DEGREE REQUIREMENT CHECK SHEET for students who matriculated summer 2015 or after

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: _____

CASE REQUIREMENTS:

- Public Oral Communication (COLL-P 155)
- English Composition
- Mathematical Modeling (fulfilled by major)
- Critical Approaches to the Arts and Sciences
- 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
- Foreign Language (FL)–3rd semester proficiency

BIOLOGY MAJOR REQUIREMENTS:

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

- 30 BIOL hours: _____ needed 18 BIOL hours at IUB: _____ needed
- 18 BIOL hours at the 300/400 level: _____ needed
- Major GPA of 2.00 or higher. Major GPA: _____

BIOLOGY

- 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)

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, 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

Lectures + labs must = at least 18 credit hours

TOTAL HOURS REQUIREMENTS:

	Required	Complete	Needed
Major Hours (A)	30		
College Elective Hours (B)			
Elective Outside Hours (C)*	0		0
Total College Hours (A+B)	100		
Total Credit Hours (A+B+C)	120		
300/400-level Hours	36		
IUB COLL Res. after 60 credits	36		

* *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.

Biology B.S. degree with Area of Concentration: Biology of Disease

The following must equal at least 18 credit hours to fulfill the requirement for the Area of Concentration.

Required Lecture Courses

Complete **two** of the following lectures (6 cr.):

- BIOL-M 380 Microbiology of Infectious Disease (3 cr.)
- BIOL-L 312 Cell Biology (3 cr.)
- BIOL-L 321 Principles of Immunology (3 cr.)
- BIOL-L 328 Disease Ecology and Evolution (3 cr.)

Elective Lecture Courses

Complete **two** of the following lectures. **At least one lecture must be chosen from List B.** Courses must be different from those taken to fulfill the requirement shown above.

List A

- BIOL-B 351 Fungi (3 cr.)
- BIOL-L 312 Cell Biology (3 cr.)
- BIOL-L 321 Principles of Immunology (3 cr.)
- BIOL-M 430 Virology Lecture (3 cr.)
- BIOL-P 451 Integrative Human Physiology (4 cr.)
- BIOL-Z 373 Entomology (3 cr.)
- CHEM-C 383 Human Biochemistry (3 cr.) **OR**
CHEM-C 483 Biological Chemistry (3 cr.)
- MSCI-M 480 Molecular Biology of Cancer: Cell Signaling & Fate (3 cr.)
- MSCI-M 485 Physiology of Human Disease (4 cr.)

List B Advanced Skills

- BIOL-L 412 Analysis of Cancer Research (3 cr.)
- BIOL-L 417 Developmental Biology (3 cr.)
- BIOL-L 411 Epigenetics, Chromosomes, and Disease (3 cr.)
- BIOL-M 416 Biology of AIDS (3 cr.)
- BIOL-M 380 Microbiology of Infectious Disease (3 cr.)
- BIOL-M 440 Medical Microbiology: Lecture* (3 cr.)
- BIOL-Z 466 Endocrinology (3 cr.)
- BIOL-L 472 Microbial Ecology (3 cr.)

Laboratory Courses

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

- BIOL-B 352 Fungi: Laboratory (2 cr.)
- BIOL-L 324 Human Molecular Biology Laboratory (3 cr.)
- BIOL-M 315 Microbiology Laboratory (2 cr.)
- BIOL-M 435 Viral Tissue Culture Laboratory (3 cr.)
- BIOL-M 445 Medical Microbiology: Laboratory* (3 cr.)
- BIOL-P 451 Integrative Human Physiology (4 cr.)
- BIOL-Z 373 Entomology (3 cr.)
- BIOL-Z 469 Endocrinology Laboratory (2 cr.)

* BIOL-M 440 and BIOL-M 445 have Microbiology prerequisites. For Biology B.S. students, BIOL-M 380 may substitute in place of BIOL-M 250 as a prerequisite.

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

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