

ACCELERATED B.S./M.S. IN BIOTECHNOLOGY – DEGREE REQUIREMENT CHECK SHEET [undergraduate-level requirements only]

for students who matriculated summer 2021 through spring 2024

Consult [graduate advisor](#) with questions about graduate-level requirements.

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:

	Required	Complete	Needed
Major Hours	40		
Total College Hours	100		
Total Credit Hours	120		
300-499 level Hours	36		
IUB COLL Res. after 60 Hours	36		

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 (fulfilled by major)
- ☐ Foreign Language (FL)–3rd semester proficiency
- ☐ CASE Culture Studies: Diversity in U.S. course–must be done at IUB

BIOTECHNOLOGY 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.

- ☐ 40 major hours: _____ needed
- ☐ 18 major hours at 300-499 level: _____ needed
- ☐ 18 major hours at IUB: _____ needed
- ☐ Major GPA \geq 2.000. Major GPA: _____

BIOTECHNOLOGY

- ☐ BIOL-L 112 ☐ BIOT-T 105 (*fall only*)
- ☐ BIOL-L 211 (P: L 112 and CHEM-C 117)
- ☐ BIOT-T 301 (*1 cr., fall only; repeatable up to 4 cr.*)
- ☐ BIOT-T 310 (P: L 211) (*fall only*)
- ☐ BIOT-T 312 (P: L 112) (*spring only*)
- ☐ BIOT-T 315 (P: L 211) [or BIOT-X 150; or BIOL-X 150 “Genome Engineering” topic only]
- ☐ BIOT-T 322 (P: L 211 and an advanced lab)
- ☐ **One** of: BIOT-T 415 or T 425 ([see Bulletin for P](#))
- ☐ BIOT-T 440 (P: CHEM-C 341) (*spring only*)
- ☐ Independent research: 9 credit hours of BIOT-X 498 and/or BIOT-X 499
Hours done: _____ Hours needed: _____
- ☐ Capstone: 3 additional hours of BIOT-X 499

★ CHEMISTRY

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

★ PHYSICS

- ☐ PHYS-P 201
- ☐ PHYS-P 202

★ STATISTICS

- ☐ LAMP-L 316, PSY-K 300,
STAT-S 300/S 303, **OR** SPEA-K 300

★ MATH

- ☐ MATH-M 211 **OR**
MATH-M 119 and MATH-M 120

COLLEGE OF ARTS AND SCIENCES BULLETIN FOR THIS PROGRAM: Go to [THIS PAGE](#) and be sure to select correct Bulletin for your year.

BIOT-X 498: Cumulative GPA ≥ 2.500 and consent of instructor required.

BIOT-X 499: Cumulative GPA ≥ 3.000 , at least 1 credit hour of BIOT-X 498, and consent of instructor required.

ADMISSION

Students should apply for admission to the B.S./M.S. degree program between their sophomore and junior years. Consult the Director of the Biotechnology Master's Degree Program about application timeline and procedures.

THE FOLLOWING SPECIAL POLICIES APPLY TO THIS DEGREE PROGRAM ONLY:

1. Up to 30 credit hours from the M.S. program may be applied toward the undergraduate degree.
2. At least 90 credit hours must be taken at the 100–499 level in courses from College of Arts and Sciences disciplines, though most students will need to complete more than this to meet all other requirements.
3. At least 90 credit hours at 100–499 level and all Bachelor of Science CASE requirements must be completed before beginning graduate-level coursework. (See your [Bulletin page](#) for this program, **Degree** tab, **items 5a-g** for list of Bachelor of Science CASE requirements.)

IMPORTANT NOTES

- Typically, the BS and MS degrees are conferred simultaneously at the end of the summer after the 5th year.
- For conversations about good fit with this program and information about funding, please consult the Director of the Biotechnology Master's Degree Program.
- This special program is not actually any faster than completing the standard BIOT BS in 4 years and the standard BIOT MS in 1 year.
- The primary advantage of the B.S./M.S. degree program is that students have the opportunity to develop an extensive, multi-year research project (4 to 7 semesters long) and write a thesis on this project. This is excellent for students wishing to pursue a Ph.D. in Biotechnology research. They do not have this opportunity with either the standard BS degree or the standard MS degree.

DEPARTMENT AND ADVISING INFORMATION

Biology Department website: <https://biology.indiana.edu/undergraduate/index.html>

Biotechnology faculty: <https://biology.indiana.edu/graduate/biotechnology/faculty/index.html>

Student Online Advising Records (SOAR): <https://one.iu.edu/task/iu/student-advising-records>

Advising Blog: <https://blogs.iu.edu/hoosierbiology/>

Follow the Department of Biology on [Facebook](#)!

Make an appointment with a Biotechnology advisor: <https://one.iu.edu/task/iu/student-appointment-scheduler>

UNDERGRADUATE DEGREE PROGRESS

Check your Academic Advisement Report (AAR): Go to <https://one.iu.edu/task/iu/degree-progress-report>, then click View My Advisement Report. Click “Expand All” button after report runs. **The AAR shows only the undergraduate degree requirements for the Accelerated B.S./M.S. in Biotechnology.**