Biology Minor Checklist

Name: _________________________  SB ID: ______________________  Today’s Date: ___________________
Overall GPA: __________________  Anticipated Graduation Date: ______  Future Plans: _____________________

Please refer to the Undergraduate Bulletin for the official policy, full course options, and requirements in detail.

Requirements for the Minor in Biology

Completion of the Minor in Biology requires a minimum of 20 credits. All courses for the minor must be taken for a letter grade and be passed with a grade of C or higher, including at least 9 credits at the 300 level. All Advanced Courses for the minor must be taken at Stony Brook in BIO-designator courses from the list of Advanced Courses in Biology. The Biology Minor requires:

1. At least two of the following core lecture courses: BIO 201, BIO 202, BIO 203
2. Two semesters of fundamental lab including BIO 204, and either BIO 205 or BIO 207.
3. At least 9 credits of Upper Division courses in Biology, in at least two of the four Areas (I-IV) of Advanced Courses in Biology (this list can be found on the back of this page). Only courses with BIO indicators are accepted for the Biology minor with the exception of: EBH 302, EBH 370, EBH 359, EBH 380, EBH 381.
4. Any additional courses as needed to reach the 20 credits required for the minor. Note, a grade of Satisfactory in at most two credits of biology independent research (BIO 484, BIO 486, BIO 487, BIO 489) and at most one credit of tutorial readings (BIO 446, BIO 447, BIO 449) may be applied toward the minor. This course can be the remaining core lecture course.

Core Courses in Biology (10 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 2</td>
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<td>BIO 2</td>
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<td>BIO 204</td>
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<td>BIO 205 or BIO 207</td>
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Advanced Courses*  Area  Credits

*At least 9 credits of Upper Division courses in Biology are required

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Additional Course(s) to Meet 20 Credits</td>
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<tr>
<td>Biology Minor Credit Total (20 Credit Minimum)</td>
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Only students with majors other than Biology, Biochemistry, Human Evolutionary Biology, Pharmacology, Marine Sciences or Marine Vertebrate Biology may elect the Biology minor.
Advanced Courses in Biology for the Biology Minor

The Advanced BIO courses are listed below in groupings that correspond to four broad areas of biology. The advanced courses are listed below as: Course Indicator, Course Name, Course Type (lecture or lab), and semester usually offered. Please refer to the Undergraduate Bulletin for the most up-to-date list including full course options, descriptions, policies, and pre-requisites in detail.

Area I: Biochemistry, Molecular and Cellular Biology
- BIO 310 Cell Biology (Lec)(SPRING)
- BIO 311 Techniques in Molecular & Cellular Biology (Lab)(SPRING)
- BIO 312 Bioinformatics and Computational Biology (Lab)(FALL)
- BIO 314 Cancer Biology (Lec)(FALL)
- BIO 316 Molecular Immunology (Lec)(SUMMER)
- BIO 320 General Genetics (Lec)(SPRING)
- BIO 361 Biochemistry I (Lec)(FALL)
- BIO 362 Biochemistry II (Lec)(SPRING)
- BIO 364 Laboratory Techniques in Cancer Biology (Lab)(FALL)
- BIO 365 Biochemistry Laboratory (Lab)(FALL)
- BIO 368 Food Microbiology Laboratory (Lec)
- EBH 302 Human Genetics (Lec)(FALL)
- EBH 370 Advanced Human Genetics (Lec/Lab)(SPRING)

Area II: Neurobiology and Physiology
- BIO 317 Principles of Cellular Signaling (Lec)(FALL)
- BIO 328 Mammalian Physiology (Lec)(SPRING)
- BIO 332 Comp. Modeling of Physiological Systems (Lec)(SPRING)
- BIO 334 Principles of Neurobiology (Lec)(SPRING)
- BIO 335 Neurobiology Laboratory (Lab)(FALL)
- BIO 337 Neurotransmission (Lec)(SPRING)
- BIO 338 Selforganization of the Brain (Lec)(FALL)
- BIO 339 Mole. Development of the Nervous System (Lec)(SPRING)

Area III: Organisms
- BIO 315 Microbiology (Lec)(SPRING)
- BIO 325 Animal Development (Lec)(FALL)
- BIO 327 Developmental Genetics Laboratory (Lab)(SPRING)
- BIO 340 Zoology (Lec/Lab)
- BIO 341 Plant Diversity (Lec/Lab) (SPRING)
- BIO 343 Invertebrate Zoology (Lec/Lab)(FALL)
- BIO 344 Chordate Zoology (Lec/Lab)(SPRING)
- BIO 348 Diversity and Evolution of Reptiles and Amphibians (Lec)
- BIO 366 Molecular Microbiology Laboratory (Lec/Lab)(FALL)
- BIO 380 Entomology (Lec/Lab)

Area IV: Ecology and Evolution
- BIO 301 Sustainability of the Long Island Pine Barrens (Lec)
- BIO 319 Landscape Ecology Laboratory (Lab)(FALL)
- BIO 321 Intro.to Ecological Genetics and Genomics (Lec)(FALL)
- BIO 336 Conservation Biology (Lec)(FALL)
- BIO 350 Darwinian Medicine (Lec)(FALL)
- BIO 351 Ecology (Lec)(FALL)
- BIO 352 Ecology Laboratory (Lab)(FALL)
- BIO 353 Marine Ecology (Lec)(SPRING)
- BIO 354 Evolution (Lec)(FALL)
- BIO 356 Applied Ecology & Conservation Biology Lab (Lab)(SPRING)
- BIO 358 Biology & Human Social & Sexual Behavior (Lec)(SPRING)
- BIO 367 Molecular Diversity Laboratory (Lab)(SPRING)
- BIO 371 Restoration of Aquatic Systems (Lec/Lab)(FALL)
- BIO 385 Plant Ecology (Lec)(SPRING)
- BIO 386 Ecosystem Ecology & the Global Environ.(Lec)(SPRING)
- EBH 359 Behavioral Ecology (Lec)(FALL)
- EBH 380 Genomics (Lec)(FALL)
- EBH 381 Genomics Laboratory (Lec/Lab)(SPRING)