

# HOFSTRA UNIVERSITY

## THE BIOLOGY BA MAJOR

### AN 8-SEMESTER STUDY GRID

- This is simply an example of what 8 semesters might look like for incoming First-Year students. Shown below are major requirements and university general education requirements. If you declare your major later, or are a Transfer Student, your grid will look considerably different. Your course choices may vary. Note that you will complete your NS Distribution requirements taking degree courses. Advanced biology courses are numbered BIOL 130 and above.
- Up to 6 credits of Distribution courses may be taken during Study Abroad.
- At least 15 semester hours in the major field of study must be taken at Hofstra.

#### FIRST YEAR

Fall	Spring	Summer/January Sessions
<b>BIO 112</b> – General Biology I	<b>BIO 113</b> – General Biology II	
CHEM 3A,B	CHEM 4A,B	
WSC 001	WSC 002	
Language #1	Language #2	

#### SECOND YEAR

Fall	Spring	Summer/January Sessions
<b>Choose one from:</b> BIOL 120 Ecology and Evolution, BIOL 121 Physiology, Genetics, BIOL 123 Cell Biology	<b>Choose two from:</b> BIOL 120 Ecology and Evolution, BIOL 121 Physiology, Genetics, BIOL 123 Cell Biology  <b>Choose one “Laboratory Skills...” course from:</b> BIOL 126 - ... in Cell Biology and Molecular Biology, BIOL 127 - ...in Ecology and Evolution, BIOL 128 - ... in Genetics, BIOL 129 - ... in Organismal Form and Function	
CHEM 135 & 137 – Organic Chemistry	BCHM 162 or 163 (Biochemistry)	
MATH #1	MATH #2 <sup>1</sup>	
Language #2		

#### THIRD YEAR Study Abroad Fall/Spring semester or an entire academic year; not restricted to Junior Year.<sup>2</sup>

Fall	Spring	Summer/January Sessions
<b>Advanced BIOL lecture and lab</b> <sup>2,3</sup>	<b>Advanced BIOL lecture and lab</b>	
PHYS 1A,B or 11A,B	PHYS 2A,B or 12A,B	
2 Distribution Courses	2 Distribution Courses	

#### FOURTH YEAR

Fall	Spring	Summer/January Sessions
<b>Advanced BIO lecture and lab</b> <b>1 Advanced BIOL lecture</b>	<b>2 Advanced BIO lectures</b>	
2 Distribution Courses	2 Distribution Courses	

## NOTES

<sup>1</sup>**Biostatistics (BIOL 124)** may be taken in place of a 2nd math course *or* as a biology elective, but not both. BIOL 124 can be switched with an advanced biology elective if Study Abroad spans the entire junior year.

<sup>2</sup> In addition to going on study abroad for either semester in their third year, students can go for the entire academic year in their third year, for a semester in their second or fourth years, or for a short-term program in the summer or during the January break. Also, you may consider taking the 3 credit January Session study abroad program in the Galàpagos Islands and Ecuador (additional tuition and program fees, see more information below).

During some semesters, students will need to take more courses than shown on this list because students need 124 credits to graduate (including 39 credits in biology) This degree has reduced Distribution requirements and no language requirement. Students must maintain a 3.0 GPA overall and in Biology courses.

### <sup>3</sup>**Biology Concentrations for B.A. and B.S.**

**Study Track in Cell and Molecular Biology:** Students choosing this track must take BIOL 122, 123, AND 166 or 167 or 168, and at least 6 additional s.h. from the following list of courses: BIOL 130, 134, 137, 141, 144, 149, 152, 153, 161, 165, 166, 167, 168, 173.

**Study Track in Ecology and Evolution:** Students choosing this track must take BIOL 120, 136, 151, 127 (recommended) and at least 6 additional s.h. from the following list of courses: BIOL 122, 124, 135, 138, 139, 145, 147, 150, 154, 156, 159, 165, 176, 178.

**Study Track in Marine Biology:** Students choosing this track must take BIOL 120, 155 and at least 8 additional s.h. from the following list of courses: BIOL 124, 136, 139, 144, 147, 150, 151.

**Study Track in Pre-Medical, Pre-Dental and Pre-Veterinary Studies:** Students choosing this track must take BIOL 122, 123 and at least 6 additional s.h. from the following list of courses: BIOL 130, 134, 135, 137, 141, 143, 144, 152, 153, 161, 166, 167, 168.

**Study Track in Secondary Education:** Students choosing this track must take BIOL 120, 121, 124 AND 122 OR 123. A course in plant biology is strongly recommended: BIOL 148, 149, 176. Other recommended courses include BIOL 136, 144, 147, 155, 166, 167.

<sup>3</sup>Specific concentrations will be printed on diploma and transcripts

<sup>4</sup>see Bulletin "GRADUATE COURSES TAKEN BY UNDERGRADUATES"

For more information and to meet your faculty, visit our [Department website](#).

WHAT CAN YOU DO WITH A BIOLOGY DEGREE?

[More about Outcomes and Career Potential](#)

You are not required to take Summer or January courses (for which there is no financial aid). You can complete your degree of 124 credits taking five courses every semester because the required physics, chemistry, and calculus courses are 4 credit courses. Note that you can take up to 17 credits per semester without paying additional tuition.

We encourage all BIOLOGY students to participate in [internships, independent research](#), or other forms of experiential learning - including the 3-credit January Session Study Abroad program in the [Galàpagos Islands](#) and Ecuador and [Belize](#).