

BIOLOGY (BS)

Contacts

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Campus: East Falls

Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/life-sciences/degrees-programs/undergraduate-programs/biology.html>)

Program Description

With an innovative curriculum providing broad scientific study, the BS in Biology program allows undergraduates to explore their passions. Students receive hands-on instruction through field work in the Philadelphia area. Study abroad opportunities give students a global perspective.

Learning Goals/Outcomes

- Select and apply elementary and advanced biological principles to projects at multiple levels
- Prepare oral presentations based on laboratory work or literature review information
- Interpret and employ graphical and tabular presentations of data
- Execute and perfect laboratory skills
- Prepare comprehensive laboratory reports in manuscript format
- Synthesize content and skills in planning a research project
- Identify, summarize and compare contrasting expert viewpoints on biological subjects
- Integrate critical review of biological literature in support of a research project
- Recognize the diversity of professions available to persons trained in biological sciences
- Display professional conduct in a variety of academic and professional environments in the biological sciences

Curriculum: 4 Year, 122-132 Credits

Course	Title	Credits
First Year		
FYS 100	Pathways Seminar	1
WRIT 101	Writing Sem I: Written Comm.	3
DBTU 114	Debating U.S. Issues	3
CHEM 103 & 103L	Chemistry I and Chemistry I Lab	4
BIOL 103 & 103L	Biology I and Biology I Lab	4
MATH 111	Calculus I	4
MATH 112	Calculus II	4
CHEM 104 & 104L	Chemistry II and Chemistry II Lab	4
BIOL 104 & 104L	Biology II and Biology II Lab	4
Credits		31
Second Year		
ETHC 200	Bioethics	3
WRIT 2XX	Multimedia Comm.	3

Course	Title	Credits
GDIV 2XX	Global Diversity	3
CHEM 201 & 201L	Organic Chemistry I and Organic Chemistry I Lab	4
CHEM 202	Organic Chemistry II	4
BIOL 105	Environmental Issues	3
BIOL 207 & 207L	Principles of Genetics and Principles of Genetics Lab	4
General Elective		3-4
Credits		27-28
Third Year		
ADIV 2XX	American Diversity	3
GCIT 2XX	Global Citizenship	3
DBTG 300		3
ISEM 3XX	Integrative Seminar	3
PHYS 201 & 201L	and	4
PHYS 203 & 203L	and Physics II Lab	4
BIOL 208	Biodiversity	3
BIOL XXX	Advanced Biology Electives	6-8
General Elective		3
Credits		32-34
Fourth Year		
PHIL 499	Philosophies of the Good Life	3
STAT 301		3
SCI 402	Science Seminar	3
Advanced Biology Electives		9-12
General Electives		9-12
Credits		27-33
Total Credits		117-126