### Bachelor of Science in Biochemistry

**Degree Requirements**

*(For students declaring biochemistry as their major spring quarter 2012 or later)*

1) **Mathematics**
   - [ ] 124 (5)
   - [ ] 125 (5)
   - [ ] 126 (5)
   - [ ] 134 (5)
   - [ ] 135 (5)
   - [ ] 136 (5)

2) **Physics**
   - [ ] 121 (5)
   - [ ] 122 (5)
   - [ ] 123 (5)
   - [ ] 114 (4)
   - [ ] 115 (4)
   - [ ] 116 (4)
   - The calculus-based series is recommended.

3) **General Chemistry**
   - [ ] 142 (5)
   - [ ] 152 (5)
   - [ ] 162 (5)
   - [ ] 145 (5)
   - [ ] 155 (5)
   - [ ] 165 (5)

4) **Organic Chemistry**
   - [ ] 237 (4)
   - [ ] 238 (4)
   - [ ] 239 (3)
   - [ ] 335 (4)
   - [ ] 336 (4)
   - [ ] 337 (4)
   - Laboratory
   - [ ] 241 (3)
   - [ ] 242 (3)
   - [ ] 346 (3)
   - [ ] 347 (3)
   - Organic laboratory begins with the second lecture course.

5) **Biology**
   - [ ] 180 (5)
   - [ ] 200 (5)

6) **Biochemistry**
   - [ ] 440 (4)
   - [ ] 441 (4)
   - [ ] 442 (4)
   - [ ] 426 Laboratory (4)
   (Students may petition research experience be used for exemption from Bioc 426 lab. Consult advisers.)

7) **Genome Science**
   - [ ] Genome 371 (5) or Genome 361 (3)

8) **Physical Chemistry**
   - Pchem for Biochemists or Regular
   - [ ] 452 (3)
   - [ ] 455 (3)
   - [ ] 453 (3)
   - [ ] 456 (3)
   - [ ] 457 (3)

9) **Science Electives**
   - Eleven credits from courses on the following list are required.
   - [ ] AMATH 351 (3)*
   - [ ] AMATH 352 (3)*
   - [ ] AMATH 410
   - [ ] CHEM 312 (3)
   - [ ] CHEM 317 (4)
   - [ ] CHEM 321 (5)
   - [ ] CHEM 325 (4)
   - [ ] CHEM 380 (4)*
   - [ ] CHEM 410 (2)
   - [ ] CHEM 416 (3)
   - [ ] CHEM 417 (3)
   - [ ] CHEM 418 (3)
   - [ ] CHEM 419 (3)
   - [ ] CHEM 426 (3)
   - [ ] CHEM 429 (3)
   - [ ] CHEM 436 (3)
   - [ ] CHEM 458 (3)
   - [ ] CHEM 460 (3)
   - [ ] CHEM 461 (3)
   - [ ] CHEM 462 (2 or 3)
   - [ ] CHEM 463 (2)
   - [ ] CHEM 464 (3)
   - [ ] CHEM 465 (3)
   - [ ] GENOME 372 (5)
   - [ ] GENOME 373 (4)
   - [ ] IMMUN 441 (4)
   - [ ] MATH 307 (3)*
   - [ ] MATH 308 (4)*
   - [ ] MATH 307 (3)*
   - [ ] MICROM 402 (3)
   - [ ] MICROM 410 (3)
   - [ ] MICROM 411 (5)
   - [ ] MICROM 412 (3)
   - [ ] MICROM 431 (3)
   - [ ] NBIO 404 (3)
   - [ ] OCEAN 400 (4)
   - [ ] NBIO 404 (3)
   - [ ] OCEAN 400 (4)

- Up to 9 credits of advanced undergraduate research may count toward this requirement. Research conducted outside Chemistry or Biochemistry must first be approved by one of the undergraduate advisers.
- Additional 400 level science courses may be considered for science electives after consultation and a petition is submitted to the biochemistry advisers.
- *Credit not allowed for both Math 307 and Amath 351 or for both Math 308 and Amath 352 toward science elective requirement.*
## Model Schedule

<table>
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<tr>
<th>Year</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
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</table>
| 1st year | Math 124 (5)  
Chem 142 (5)  
Foreign Lang 101 (5) | Math 125 (5)  
Chem 152 (5)  
F L 102 (5)  
Electives (2) | Math 126 (5)  
Chem 162 (5)  
F L 103 (5)  
Electives (2) |
| 2nd year | Biol 180 (5)  
Chem 237 (4)  
Electives (7) | Biol 200 (5)  
Chem 238 (4)  
Chem 241 (3)  
I & S (5)* | Chem 239 (3)  
Chem 242 (3)  
English Comp (5)*  
VLPA (5) |
| 3rd year | Bioc 440 (4)  
Phys 121 (5)  
I & S (5)*  
Electives (2) | Bioc 441 (4)  
Phys 122 (5)  
VLPA (5)*  
Electives (3) | Bioc 442 (4)  
Phys 123 (5)  
VLPA "W" (5)*  
Electives (3) |
| 4th year | Bioc 426 (4)  
I&S “W” (5)  
Science Electives (8) | Chem 452 (3)  
Science Electives (3)  
VLPA (5)*  
Electives (5) | Chem 453 (3)  
Genome 361 (3)  
I & S (5)*  
Electives (3) |

*Visual, Literary and Performing Arts (VLPA) & Individuals and Societies (I&S).

Students are strongly encouraged to include undergraduate research in their curricula. Chem 299 and 499 can replace the “W” credits shown.

Students are expected to understand and complete all general education requirements as detailed in the General Catalog and on-line at [http://www.washington.edu/students/ugrad/advising/ged/#A&Sgened](http://www.washington.edu/students/ugrad/advising/ged/#A&Sgened).

Undergraduate advisers can help set up individual schedules according to students’ needs and constraints.

Note that registration for Bioc 426 is restricted during period 1 registration to seniors who have applied to graduate.

### Major Credit and Grade Point Checklist

- Biochemistry degree requires **195 credits**.

  *NOTE: Model Schedule (item #10) plans for up to 18 credits per quarter, which is above the standard 15. Students’ credit loads may vary. Time to degree completion will vary on a case-by-case basis.*

- A minimum grade of **2.0** and a cumulative major GPA of **2.50** are required for all CHEM, BIOL, & BIOC courses counted toward the major.

- A minimum cumulative GPA of **2.50** is required in the **Bioc 440, 441, 442** sequence.

- An overall cumulative grade point average of **2.50** is also required.

- All required courses must be taken for a decimal grade, unless only offered on a CR/NC basis.

**STUDENTS WHO HAVE DECLARED BIOCHEMISTRY PRIOR TO SPRING QUARTER 2012 MAY CHOOSE TO FOLLOW THE DEGREE REQUIREMENTS THAT WERE IN EFFECT PRIOR TO SPRING QUARTER 2012.**

9/2014