

# BIOCHEMISTRY MAJOR, BS

Campus: NYC, Westchester

## Major Completion Summary

| Requirement                  | Credits    |
|------------------------------|------------|
| University Core Requirements | 44-55      |
| Major Requirements           | 65-66      |
| Open Electives               | 7-20       |
| <b>Total Credits</b>         | <b>128</b> |

## University Core Requirements (44-55 Credits)

See complete University Core (<http://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Includes several of the major-required Math, Biology and Physics courses listed below:

| Code  | Title              | Credits |
|---|--------------------|---------|
| <b>Major-Required Math and Science Courses</b>  |                    |         |
| The following University Core courses satisfy several Math and Science foundation requirements of the Biochemistry Major, BS: |                    |         |
| BIO 101   | General Biology I  | 4       |
| BIO 102   | General Biology II | 4       |
| MAT 132   | Calculus II        | 4       |
| PHY 111   | General Physics I  | 4       |
| PHY 112   | General Physics II | 4       |
| BIO 231   | Genetics           | 4       |
| or BIO 264  | Microbiology       |         |

## Major Requirements (65-66 Credits)

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required Major Courses</b>                                  |  |           |
| CHE 111  | General Chemistry I  | 4         |
| CHE 112  | General Chemistry II   | 4         |
| CHE 200  | Mathematical Methods for Physical Chemistry                                | 4         |
| CHE 221  | Analytical Methods and Techniques  | 4         |
| CHE 223  | Organic Chemistry I  | 5         |
| CHE 224  | Organic Chemistry II   | 5         |
| CHE 301  | Physical Chemistry I: Quantum Mechanics and Spectroscopy                   | 4         |
| CHE 302  | Physical Chemistry II: Thermodynamics, Molecular Interactions and Kinetics | 4         |
| CHE 326  | Biochemistry   | 4         |
| CHE 328  | Advanced Biochemistry  | 3         |
| CHE 329  | Advanced Biochemistry Laboratory   | 2         |
| CHE 330  | Advanced Inorganic Chemistry   | 4         |
| CHE 331  | Instrumental Analysis  | 4         |
| CHE 340  | Polymer Chemistry  | 3         |
| CHE 392  | Chemistry Seminar I  | 1         |
| CHE 480  | Research in Chemistry  | 3         |
| CHE 492  | Chemistry Seminar II   | 1         |
| CHE 333 (NYC) or CHE XXX Recommended Advanced CHE Course (PLV) |  | 3         |
| <b>Required Science Course <sup>1</sup></b>                    |  |           |
| FOR 505 (NYC) or BIO 335 (PLV)                                 |  | 3         |
| <b>Total Credits</b>   |  | <b>65</b> |

<sup>1</sup> Not taken for University Core Credit

## Open Electives (7-20Credits)

| Code                             | Title | Credits     |
|----------------------------------|-------|-------------|
| <b>Open Electives</b>            |       |             |
| Select 7-20 credits <sup>1</sup> |       | 7-20        |
| <b>Total Credits</b>             |       | <b>7-20</b> |

<sup>1</sup> Includes UNV 101 First-Year Seminar: Introduction to University Community and Major-required Biology, Math, and Physics courses not taken for University Core credit.