

RAMAPO@PCCC

A.S.: Biology → B.S.: Biology

| First Year-PCCC | | | | | |
|----------------------------------|-----------|---|--------------------------------|-----------|---|
| Fall Semester (1st Semester) | HRS | ✓ | Spring Semester (2nd Semester) | HRS | ✓ |
| BS 101: Biology I | 4 | | BS 102*: Biology II | 4 | |
| CH 111: General Chemistry I | 4 | | CH 112*: General Chemistry II | 4 | |
| EN 101: Composition I | 3 | | EN 102*: Composition II | 3 | |
| MA 109: Pre-Calculus Mathematics | 4 | | MA 120*: Calculus I | 4 | |
| Total | 15 | | Total | 15 | |

| Second Year-PCCC | | | | | |
|--|-----------|---|--|-----------|---|
| Fall Semester (3rd Semester) | HRS | ✓ | Spring Semester (4th Semester) | HRS | ✓ |
| CIS 101: Computer Concepts and Applications | 3 | | CH 212*: Organic Chemistry II OR PY102*: College Physics II OR PY121*: Physics II | 4 | |
| CH 211*: Organic Chemistry I OR PY101: College Physics I OR PY 120: Physics I | 4 | | SC 290*: Select Topics in Science | 3 | |
| Humanities Course | 3 | | Social Science OR Humanities | 3 | |
| Social Science Course | 3 | | Science Elective* | 4 | |
| Science Elective* | 4 | | | | |
| Total | 17 | | Total | 14 | |
| | | | Total for A.S. | 61 | |

| Third Year-PCCC | | | | | |
|--|-----------|---|--|-----------|-----------|
| Fall Semester (5th Semester) | HRS | ✓ | Spring Semester (6th Semester) | HRS | ✓ |
| # CH 211*: Organic Chemistry I OR PY101: College Physics I OR PY 120: Physics I | 4 | | # CH 212*: Organic Chemistry II OR PY102*: College Physics II OR PY121*: Physics II | 4 | |
| BS204* Introduction to Ecology | 4 | | BS301* Molecular Genetics | 4 | |
| BS300* Neuroscience | 4 | | Social Science OR Humanities | 3 | |
| Social Science OR Humanities | 3 | | Free Elective | 3 | |
| | | | Free Elective | 3 | |
| Total | 15 | | Total | 17 | 93 |

| Fourth Year-RCNJ | | | | | |
|---|-------------|---|--|-------------|------------|
| Fall Semester (7th Semester) | HRS | ✓ | Spring Semester (8th Semester) | HRS | ✓ |
| BIOL 332* & BIOL 332L- Genetics & Genetics Lab WI | 5.5 | | BIOL 356* - Evolution WI | 4 | |
| Biology Elective^ | 4 | | BIOL 407* & BIOL 407L Cell and Molecular Biology & Cell and Molecular Biology Lab WI | 5.5 | |
| Biology Elective^ | 4 | | Biology Elective^ | 4 | |
| General Elective | 4 | | General Elective | 4 | |
| Total | 17.5 | | Total | 17.5 | |
| | | | | | 128 |

*Course has a prerequisite.

^ Biology electives should be selected in consultation with the PCCC/Ramapo advisor. Note: A minimum of four Biology elective courses total is required for graduation from RCNJ and, while *one* course may be at the 200-level, at least three courses must be at the 300- or 400-level. In addition, one of the required Biology elective courses must include lab or field experience. At Ramapo College, Biology elective courses with lab or field experience can total up to 5.5 credits each. Please be aware that Anatomy & Physiology II and II count as one elective when both are taken, since they collectively cover all systems of the body. Co-ops do not count as Biology electives.

Students must take a Physics sequence (PY101/PY102 **OR** PY120/PY121) in their third year if they have completed the Organic Chemistry sequence (CH211/CH212) for their AS degree or vice-versa

This plan is based on the completion of an Associate of Science Degree in Biology at Passaic County Community College encompassing all recommended courses. The plan as presented is based on full-time enrollment, part-time enrollment will extend the plan. This plan is subject to change.