**2020-2021**

**Degree Map:** [**Biology (BS)**](https://www.york.cuny.edu/produce-and-print/contents/bulletin/school-of-arts-and-sciences/biology/biology-bs)

Department of Biology

School of Arts & Sciences | York College | CUNY

Academic Core 4E03 | 718-262-2700

The following is a **suggested** plan of study for completion of this degree program.

The goal of a Degree Map is to ensure that students graduate with no more than 120 credits and in four years.

* All students should speak with an academic advisor about their academic programs.

**This document is not a substitute for academic advisement.**

* Students are encouraged to take Winter and Summer courses to facilitate their progress towards graduation.
* Transfer students do not need to take all courses in the plan; they should consult with an academic advisor.

| Course | Credit | Course | Credit |
| --- | --- | --- | --- |
| **FIRST YEAR - FALL** | **14** | **FIRST YEAR - SPRING** | **15** |
| English Composition (EC): ENG 125 | 3 | English Composition (EC): ENG 126 | 3 |
| Mathematical & Quantitative Reasoning (MQR): Math 120\*@ | 4 | Scientific World (SW):  CHEM 108\* + CHEM 109\* | 5 |
| Life & Physical Science (LPS): BIO 201\* | 4 | Creative Expression (CE)‡ | 3 |
| College Option: HE 111 | 3 | Additional Flexible Core Course:  BIO 202\* (SW) | 4 |

| Course | Credit | Course | Credit |
| --- | --- | --- | --- |
| **SECOND YEAR - FALL** | **16** | **SECOND YEAR - SPRING** | **14.5** |
| World Culture & Global Issues (WCGI)‡ | 3 | BIO Elective Course from Group 2\* or Group 3\*\* | 4.5 |
| MATH 121\*@ | 4 | PHYS 113 + PHYS 115\*\*\* | 5 |
| BIO 301 (WI) | 4 | CHEM 231 | 3 |
| CHEM 111 + CHEM 112 | 5 | CHEM 232 | 2 |

| Course | Credit | Course | Credit |
| --- | --- | --- | --- |
| **THIRD YEAR - FALL** | **14** | **THIRD YEAR - SPRING** | **13.5** |
| College Option: Foreign Language† | 3 | College Option: Foreign Language† | 3 |
| BIO 307 | 3 | College Option: Writing Requirement | 3 |
| PHYS 114 + PHYS 116\*\*\* | 5 | US Experience in its Diversity (USED)‡ | 3 |
| CHEM 233 | 3 | BIO Elective Course from Group 2\* or Group 3\*\* | 4.5 |

| Course | Credit | Course | Credit |
| --- | --- | --- | --- |
| **FOURTH YEAR - FALL** | **16.5** | **FOURTH YEAR - SPRING** | **16.5** |
| Individual & Society (IS)‡ | 3 | Minor Course or Free Elective‡ | 3 |
| BIO 486-489 (WI)\*\*+ | 3 | Minor Course or Free Elective‡ | 3 |
| BIO Elective Course from Group 2\*or Group 3\*\* | 4.5 | BIO Elective Course from Group 2\* or Group 3\*\* | 4.5 |
| Minor Course or Free Elective | 3 | Minor Course or Free Elective | 3 |
| Minor Course or Free Elective | 3 | Minor Course or Free Elective | 3 |

* York students are required to complete (pass) three (3) Writing intensive (WI) courses: two (2) in the lower division (100-200 level) and one (1) in the upper division (300-level).
* If you transferred to York College with credit for General Education requirements, you must still complete one (1) WI course in the upper division within your major. If your major has no upper division WI course, you must take a WI course chosen in consultation with your major advisor.
* B.S. students must complete 60 credits of liberal arts – See Bulletin.
* Students are strongly encouraged to select a Minor program of study, in consultation with an academic advisor, especially those planning to attend graduate school. Minor courses would replace the “free electives” in the Degree Map.

†Foreign language courses are determined through placement by the Foreign Language Department, AC-3C08

‡The Biology Department recommends students take Writing-Intensive courses within the Flexible Core requirements.

If not WI, two additional WI courses must be taken in place of free electives before graduation.

**Notes for Biology Major Requirements**

\* These courses can also be taken to satisfy Core Curriculum requirements.

\*\* BIO 486-489 are the upper division WI courses for Biology major.

\*\*\* PHYS 117 may be substituted for PHYS 115

+ BTEC 489 may substitute for BIO 489.

^CHEM 231 and 232 may be substituted for CHEM 230 and 235

# BIO 234 and 235 may be substituted for BIO 334. One additional course in Group II will be required to satisfy this core area.

@ Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or (MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits). Those courses subtract from the free-electives total.

\*Elective Courses from Group 2 (**Organismic and Environmental Biology**): A minimum of 7.5 credits in total must be taken to fulfill major requirements. Select a 200-400 level courses from the following: BIO 331, 308, 309, 311, 325, 334, 410, 411, or 477.

\*\*Elective Courses from Group 3 (**Cell and Molecular Biology**): A minimum of 7.5 credits in total must be taken to fulfill major requirements. Select a 200-400 level courses from the following: BIO 320, 412, 415, 444, 452, 465, 466, 480, BTEC 352 or CHEM 412.

**Required Core:** English Composition (EC); Mathematical & Quantitative Reasoning (MQR); Life & Physical Science (LPS)

**Flexible Core:** World Cultures & Global Issues (WCGI), U.S. Experience in its Diversity (USED), Creative Expression (CE), Individual & Society (IS), Scientific World (SW)