**2013-2014**

**Pathways Four-Year Plan: B.S. in Biotechnology**

**Department of Biology**

**School of Arts and Sciences**

**The goal of a Four-Year Plan 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.
* 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.

|  | **Credit** |  | **Credit** |
| --- | --- | --- | --- |
| **FIRST YEAR- FALL** | **15** | **SPRING** | **15** |
| English 125 (Required Core) | 3 | English 126 (Required Core) | 3 |
| Biology 201 (College Option) | 4 | Flexible Core + | 3 |
| Math 119 and 120 # | 5 | Chemistry 108 and 109 (Flexible Core, Scientific World) | 5 |
| Health Education 111 (College Option) | 3 | Biology 202 (Flexible Core, Scientific World) | 4 |
| **SOPHOMORE- FALL** | **16** | **SPRING** | **14** |
| Bio 301 | 4 | Physics 113 and 1151 | 5 |
| Math 121 (Required Core and Major Requirement) | 4 | Chemistry 231 | 3 |
| Chemistry 111 and 112 | 5 | Chemistry 232 | 2 |
| Flexible Core + | 3 | BTEC 302 | 4 |
| **JUNIOR- FALL** | **14** | **SPRING** | **16.5** |
| Physics 114 and 1162 | 5 | Biotechnology elective\* | 4.5 |
| Chemistry 233 | 3 | BTEC 352 | 3 |
| Writing 302 (College Option) | 3 | Flexible Core+ | 3 |
| Biology 412 | 3 | Foreign Language (College Option) | 3 |
|  |  | Free Elective | 3 |
| **SENIOR- FALL** | **15.5** | **SPRING** | **14** |
| Biotechnology elective\* | 4.5 | Free Electives | 9 |
| BTEC 489 (WI) (College Option and Major Requirement) | 2 | BTEC 480 (WI) | 5 |
| Flexible Core + | 3 |  |  |
| Foreign Language (College Option) | 3 |  |  |
| Free Elective | 3 |  |  |

**Students who start at York are required to take three Writing Intensive (WI) courses: two in the lower division (100-200 level) and one in the upper division (300-400 level). Transfer students should consult with an advisor about their WI requirements.**

**york.cuny.edu/pathways**

**Total credits needed to graduate 120**

**Notes**

**+ Menu of courses to meet the requirements of the Flexible Core.** Students must take at least one course from each of the five areas and no more than two courses in any discipline or interdisciplinary field. **Biotechnology major courses satisfy 2 courses in Scientific World.**

**World Cultures and Global Issues:** Anthropology 101; English 200; History 100, 108, 113; Humanities 350; Political Science 202, 241; World Literature 201, 205, 207, 210, 211, 212

**U.S. Diversity in its Experience:** Anthropology 246; History 201, 202, 204; Humanities 250, 253; Political Science 103; Sociology 235, 289

**Creative Expression:** English 286; Fine Arts 104; Humanities 221, 224, 260; Music 101, 250, 253, 270; Speech 160; Theater Arts 110, 210

**Individual and Society**: Anthropology 205, 211; Cultural Diversity 100; Economics 102; Humanities 209, 304; Philosophy 103; Political Science 267, 268; Sociology 101

**Scientific World:** Anthropology 152; Astronomy 101, 102; Biology 110, 120, 130, 202, 234 & 235; Chemistry 108, 109; Geology 110, 115, 120, 121; Physics 152, HPEH 110; HPGC 102; Humanities 202; Philosophy 102; Psychology 102

# Students placing out of Math 119/120 may take a Pathways class instead.

1 Physics 117 can be substituted for Physics 115

2 Physics 118 can be substituted for Physics 116.

\* Elective Courses

Students are required to complete 7.5-10 credits from this group of courses to fulfill the major requirements: Biology 307, 320, 415, 444, 452, 465, 466, and BTEC 350.

Additional free electives may be required depending on the students’ choices to complete the required 120 credits to graduate.

**B.S. students must complete 60 credits of liberal** **arts – see Bulletin.**

**FOR MORE INFORMATION:**

**Department of Biology, Academic Core Bldg., Room 4E03, (718) 262-2700**