**2014-2015**

**Pathways Four-Year Plan: Computer Science (BS)**

Department of Mathematics & Computer Science

School of Arts & Sciences | York College | CUNY

Academic Core 2C07 | 718-262-2535

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

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.

**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 may not need to take all courses in the plan; they should consult with an academic advisor.
* In order to register for Math 121 – Analytic Geometry and Calculus I, students must complete Math 120 (Pre-Calculus).

|  | Credit |  | Credit |
| --- | --- | --- | --- |
| **FIRST YEAR - FALL** | **16-17** | **FIRST YEAR - SPRING** | **17** |
| English Composition (EC): ENGL 125 | 3 | English Composition (EC): ENGL 126 | 3 |
| Mathematical & Quantitative Reasoning (MQR): Math 119 (1cr) + Math 120 (4crs) | 5 | Math 121 | 4 |
| Life & Physical Science (LPS) | 3-4 | Creative Expression (CE) | 3 |
| CS 172 | 4 | Scientific World (SW) | 3 |
| Free Elective | 1 | CS 291 | 4 |

|  | Credit |  | Credit |
| --- | --- | --- | --- |
| **SECOND YEAR - FALL** | **15** | **SECOND YEAR - SPRING** | **18** |
| World Culture & Global Issues (WCGI) | 3 | US Experience in its Diversity (USED) | 3 |
| Math 122 | 4 | Individual & Society (IS) | 3 |
| Math 225 | 4 | CS 341\* | 4 |
| CS 397 | 4 | CS 451 | 4 |
|  |  | Math 210 | 4 |

|  | Credit |  | Credit |
| --- | --- | --- | --- |
| **THIRD YEAR - FALL** | **14-15** | **THIRD YEAR - SPRING** | **13** |
| College Option: Foreign Language† | 3 | College Option: Foreign Language† | 3 |
| CS 357 | 4 | Additional Flexible Core Course | 3 |
| CS 457 | 4 | Writing Intensive (WI) | 3 |
| CS/Math Elective | 3-4 | CS Elective | 4 |

|  | Credit |  | Credit |
| --- | --- | --- | --- |
| **FOURTH YEAR - FALL** | **13** | **FOURTH YEAR - SPRING** | **14** |
| College Option: HE 111 | 3 | College Option: Writing Intensive (WI): CS 401 | 2 |
| Writing Intensive (WI) | 3 | CS Elective | 4 |
| CS 485 | 4 | Free Elective | 3 |
| Free Elective | 3 | Free Elective | 3 |
|  |  | Free Elective | 2 |

\*CS majors must pass CS 341 with a C grade or better. A student is allowed to retake this course a maximum of three (3) times.

* 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.
* 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 Four-Year Plan.
* B.S. students must complete 60 credits of liberal arts – See Bulletin.

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