**2013-2014**

**Pathways Four Year-Plan: Major B.S. in Mathematics**

**Department of Mathematics and Computer Science**

**School of Arts and Science**

**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** | **14** | **SPRING** | **16** |
| English 125 | 3 | English 126 | 3 |
| Math 119/120 | 5 | Math 121 | 4 |
| Individual and Society | 3 | Life and Physical Sciences\* | 3 |
| US Diversity and its Experiences | 3 | World Culture and Global Issues | 3 |
|  |  | Health Education 111 | 3 |
| **SOPHOMORE- FALL** | **15** | **SPRING** | **14** |
| Math 122 | 4 | Math 221 | 4 |
| Math 48x | 1 | Mathematics Area Course (b) | 4 |
| Mathematics or CS Elective (a) | 4 | Creative Expressions | 3 |
| Scientific World | 3 | Additional Flexible Core Class | 3 |
| WI 100- to 200-level or above\*\* | 3 |  |  |
| **JUNIOR- FALL** | **15** | **SPRING** | **16** |
| Math 333 | 4 | Math 336 | 4 |
| Mathematics Area Course (b) | 4 | Mathematics Area Course (b) | 4 |
| Mathematics Elective (a) | 4 | Mathematics Elective (a) | 4 |
| Foreign Language\*\*\* | 3 | Mathematics 479\*\* (WI) | 1 |
|  |  | Foreign Language\*\*\* | 3 |
| **SENIOR- FALL** | **14** | **SPRING** | **16** |
| Mathematics or Free Elective (a) | 4 | Mathematics or Free Elective (a) | 4 |
| Minor course or free elective | 7 | Minor course or free elective | 12 |
| WI 200-level\*\* | 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**

1. **Mathematics or CS Elective.** Mathematics electives are MATH or CS courses numbered 200 and above. The following courses cannot be credited toward fulfillment of the mathematics major requirement: Math 102, 111, 115, 120, 141, 150, 190, 271, 272, 302, 303; CS 193, 194.

**b. Mathematics Area Courses (a total of 12 credits must be selected).**

* 1. Computing: MATH 225 4crs, CS 291 4crs, CS 341 4crs
	2. Actuarial Math/Operations Research: MATH 210 4 crs, MATH 211 4crs, MATH 313 3crs, MATH 48x 1cr
	3. Applied Math: MATH 210 4crs, MATH 211 4crs, MATH 223 4crs, MATH 48x 1cr
	4. General Math: MATH 225 4crs, MATH 311 or 423 4crs, MATH 223 4crs, MATH 48x 1 cr
	5. Math Education: MATH 210 4crs, MATH 225 4crs, MATH 243 or 244 4crs, MATH 479WI 1cr

**\*Life and Physical Sciences:** Biology 140, 201; Chemistry 106, 107, 111, 140; Geology 140; Physics 140, 151

\*\***Students must complete** two WI (writing intensive) courses in the lower division of the curriculum (100- or 200- level), and one WI course within the major (300- level or above) in order to graduate. MATH 479 is usually offered as writing intensive. This course is required for students in the Mathematics Education Area.

\*\*\***Foreign Languages**. Students may be exempt from this requirement (by taking a placement exam). In this case, they will be required to complete 6 additional credits as free electives in Liberal Arts and Science courses to fulfill the degree requirement of 120 credits.

Take Math 119/120 on your first semester. If you place out of Math 120, take Math 119/121 instead. Math119 must be taken as either a co-req or pre-req for Math 121.

**Note**: Students interested in applying to graduate school are strongly advised to take Math 423 (Advanced Calculus I) and Math 424 (Advanced Calculus II).

**Note: Students are strongly encouraged to select a Minor program of study, in consultation with an academic advisor, especially those planning to attend graduate school. A minor course would replace “free elective” in the 4-year plan.**

**B.S. students are required to complete 60 credits of liberal arts – see Bulletin.**

**FOR MORE INFORMATION:**

**Department of Mathematics & Computer Science, Academic Core Bldg., Rm. 2C07, (718) 262-2535**