

Recommended Course Sequence

The number of credits you take each year will determine when you graduate. To graduate on time, you are strongly encouraged to enroll in at least 30 credits toward your degree during the calendar year, including fall and spring semesters and winter and summer sessions.

Dual/Joint A.S. / B.S. in Computer Science and Information Security - Catalog Year 2017-18

Fall Semester #1

Courses	Credits	Pre-requisites and co-requisites
MA 119 College Algebra * (or higher) (Required Core 1.B. Mathematical and Quantitative Reasoning) Students who place in MA 440 should take this instead of MA 119. See note 5 below.	3-4	Pre-req.: MA 10 or passing score on the CUNY math placement exam, or exemption Pre-req. for MA 440: MA 114 or MA 119 & 121 with C or better
ET 570 Creating Smartphone Apps	3	none
Flexible Core -Select one course, from 2. A, B., C., D., or E.	3	Check course pre- and co-requisites
Flexible Core -Select one course from 2.E. Scientific World	3	Check course pre- and co-requisites
ENGL 101 English Composition I (Required Core 1.A. – English Composition)	3	Pre-req.: BE 112/205 and 122/226 or passing score on CUNY placement, or exemption
Total credits for the term	15-16	

Spring Semester #1

Courses	Credits	Pre-requisites and co-requisites
MA 440 Pre-Calculus (or higher) Students who initially placed into MA 440 should take MA 441	4	Pre-req. for MA 440: MA 114 or MA 119 & 121 with C or better
ET 704 Networking Fundamentals	4	none
Flexible Core -Select one course from 2C. Individual and Society (see note 3 below)	3	Check course pre- and co-requisites
Flexible Core -Select one course from 2D. Creative Expression (see note 3 below)	3	Check course pre- and co-requisites
ENGL 102 English Composition II (Required Core 1.A. – English Composition)	3	Pre-req.: ENGL 101 or placement
Total credits for the term	17	

Fall Semester #2

Courses	Credits	Pre-requisites and co-requisites
MA 471 Introduction to Discrete Mathematics	3	Pre-req.: MA 440
ET 575 Introduction to C++ Programming Design and Implementation	3	Pre-req.: MA 321 or co-req.: MA 114, 119, or 440
ET 725 Computer Network Security	3	Pre-req.: ET 704 or permission of the department
Flexible Core -Select one course from 2A. World Culture and Global Issues (see note 3 below)	3	Check course pre- and co-requisites
Flexible Core -Select one course from 2B. U.S. Experience and Its Diversity (see note 3 below)	3	Check course pre- and co-requisites
Total credits for the term	15	

Spring Semester #2

Courses	Credits	Pre-requisites and co-requisites
MA 441 Analytic Geometry and Calculus I Students who initially placed into MA 440 should take MA 442	4	Pre-req.: MA 440 with C or better
ET 580 Object Oriented Programming	3	Pre-requisite: ET 575
ET 585 Computer Architecture	3	Pre-requisite: ET 575
Required Core 1.C. Life & Physical Sciences – select course	3-4	Check course pre- and co-requisites
Total credits for the term	13-14	
Total credits required for the A.S. in Computer Science and Information Security	60-62	

Notes:

1. All students must complete two (2) WI designated classes to fulfill degree requirements.
2. Students in degree programs must complete any required remedial speech courses before graduation.
3. Students must complete one course from each of the flexible core categories (2.A., B., C., D., and E.) and one additional course from any one of the categories
4. If students do not take the required courses in the Common Core, they will have to take additional credits to complete their degree requirements.
5. *Students who place in MA 441 initially should take MA 441, MA 442, MA 471 and MA 461 (Linear Algebra, pre-req.: MA 442).
6. INDICATE IF ANY COURSES ARE OFFERED ONLY IN FALL OR SPRING SEMESTERS