

# A.S. COMPUTER SCIENCE

**TOTAL CREDITS: 60-64**

## Requirements for Matriculants

### COLLEGE REQUIREMENTS

Passing scores on the CUNY/ACT in Reading and Writing and the COMPASS Math Skills Test or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 01200.....	3 credits
ENG 02400.....	3
HE 01400 .....	1

A passing score on the CUNY Proficiency Exam (CPE) is required for graduation and must be taken following the completion of 45 credits.

### DEPARTMENT REQUIREMENTS §

Introduction to Computing (CS 01200) .....	4 credits
Advanced Programming Techniques (CS 013A0).....	4
Computer and Assembly Language Programming (CS 01400) .....	5
Discreet Structures (CS 03500) .....	5
+Calculus I, II and III (MAT 01500, 01600, 02100).....	12
Linear Algebra (MAT 05600).....	4
Biostatistics (MAT/BIO 09100) .....	4
Differential Equations (MAT 05500).....	3

### GENERAL EDUCATION REQUIREMENTS — 13 Credits

Nine (9) credits from Groups A and B (a minimum of three (3) credits from each group plus three (3) more credits in another discipline from either Group) plus four (4) credits from Group C.

**Group A** — ARTS AND HUMANITIES .....3 – 6 credits  
*Disciplines: Art - Foreign Language - Literature – Media and Film Studies - Music - Philosophy - Speech - Theatre Arts*  
Excluded are Art studio, Music studio, Theatre production & skills courses

**Group B** — BEHAVIORAL AND SOCIAL SCIENCES.....3 – 6 credits  
*Disciplines: Anthropology - Economics - History – Political Science - Psychology - Sociology*

**Group C** — MATHEMATICS AND SCIENCES – *Mathematics satisfied by Department Requirements.*  
One laboratory science selected from the following disciplines:  
*Biology – Chemistry – Earth & Planetary Science – Physics* ..... 4 credits

**ELECTIVES:** 0 – 4 sufficient to meet required total of 60- 64 credits

- This program is within the Mathematics and Computer Science Department.
- § Consultation with the Department Advisor is required.
- + Prerequisites must be met. Additional credits may be required.