# COMPUTER SCIENCE - ASSOCIATE OF SCIENCE DEGREE (AS)

Explore More About This Program: https://cwi.edu/program/computer-science

## Degree Quick Facts

- **Instructional School:** Science, Technology, and Math
- **Department:** Computer Science and Information Technology
- **Program Code:** CPSC.AS
- **Program Type:** Academic Transfer
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the Special Course Fees web page.

## Degree Requirements

| Course | Course Title | Min Credits |
|---|---|---|
| **General Education Requirements** [1] | | |
| CWI 101 | Connecting With Ideas | 3 |
| Global Perspectives course | | 3 |
| ENGL 101 | Writing and Rhetoric I (GEM 1) | 3 |
| ENGL 102 | Writing and Rhetoric II (GEM 1) | 3 |
| COMM 101 | Fundamentals of Oral Communication (GEM 2) | 3 |
| or COMM 112 | Argumentation and Debate | |
| MATH 147 | Precalculus (GEM 3) [2,3] | 5 |
| or MATH 170 | Calculus I | |
| PHYS 211 | Physics for Scientists and Engineers I (GEM 4) | 4 |
| PHYS 211L | Physics for Scientists and Engineers I Lab (GEM 4) | 1 |
| GEM 4 - Scientific Ways of Knowing course [4] | | 3 |
| GEM 5 - Humanistic & Artistic Ways of Knowing course | | 3 |
| GEM 5 - Humanistic & Artistic Ways of Knowing course [4] | | 3 |
| GEM 6 - Social & Behavioral Ways of Knowing course | | 3 |
| GEM 6 - Social & Behavioral Ways of Knowing course [4] | | 3 |
| **Major Requirements** | | |
| CPSC 121 | Computer Science I [5] | 4 |
| CPSC 153 | Navigating Computer Systems | 1 |
| CPSC 155 | Introduction to Version Control | 1 |
| CPSC 208 | Introduction to Full Stack Web Development | 3 |
| CPSC 221 | Computer Science II [5] | 3 |
| MATH 170 | Calculus I [3] | 5 |
| Select 3-8 credits from the Major Electives course list below to bring the total credits earned to at least 60 [6] | | 3-8 |
| **Minimum Credit Hours Required** | | **60** |

[1]  Students must select an "E" designated course to fulfill one of their general education requirements.

[2]  In order to graduate, Computer Science majors are required to complete MATH 170 Calculus I. If students do not have high enough ACT, SAT, or CWI Math Diagnostic exam scores to place directly into MATH 170, they will need to complete MATH 147 Precalculus in their first semester to fulfill their GEM 3 requirement and the prerequisite requirement for MATH 170.

[3]  MATH 170 Calculus I cannot count as both GEM 3 and a Major Requirement. If students completed MATH 170 to fulfill their GEM 3 requirement, they need to take five (5) additional elective credits from the Major Electives course list to get to a total of 60 credits for the degree.

[4]  Course must come from a different discipline.

[5]  Includes an integrated lab component.

[6]  Review transfer institution requirements (if known) to help select the most beneficial elective course(s) from the Major Electives list below.

## Computer Science: Major Electives

| Course | Course Title | Min Credits |
| --- | --- | --- |
| CHEM 101 | Introduction to Chemistry | 3 |
| CHEM 101L | Introduction to Chemistry Lab | 1 |
| CHEM 111 | General Chemistry I | 3 |
| CHEM 111L | General Chemistry I Lab | 1 |
| CPSC 111 | Introduction to Python Programming | 3 |
| ENGL 202 | Technical Communication | 3 |
| MATH 175 | Calculus II | 4 |
| MATH 176 | Discrete Mathematics | 4 |
| MATH 230 | Introduction to Linear Algebra | 3 |
| MATH 275 | Calculus III | 4 |
| MATH 285 | Differential Equations with Matrix Theory | 4 |
| PHYS 212 | Physics for Scientists and Engineers II | 4 |
| PHYS 212L | Physics for Scientists and Engineers II Lab | 1 |