

INTRODUCTION TO PROGRAMMING, CERTIFICATE OF ACCOMPLISHMENT

Course	Title	Units
CIS C156	Web Development with JavaScript and Cloud Services	3
CIS C157	Introduction to Python Programming	3
Total Units		12

Not Financial Aid Eligible

Completion of the Introduction to Programming Certificate of Accomplishment courses will provide students with a foundation in Computer Information Systems with an emphasis in Computer Programming. The focus on Introductory Programming provides the basic skills needed for an entry-level career or advancement into a position as a Software Application Developer. Topics covered will include information systems and computer networking concepts, e-business systems, software development lifecycle, Java concepts, principles of object-oriented programming, JavaScript language concepts, cloud computing skills, database management for Web developers, and introduction to python programming concepts

Program Level Student Learning Outcomes

Upon completion of this program students will be able to:

1. Demonstrate proficiency and understanding of the software development lifecycle using software application development techniques to solve common business problems by designing and implementing an appropriate solution that meets industry standards.
2. Demonstrate the ability to program using Java.
3. Demonstrate the ability to develop Web applications using JavaScript.

Certificate Graduation Requirements

A Certificate is awarded upon completion of the required coursework with a grade of C or higher in each course. A grade of P (Pass) is acceptable, however, the student must meet an overall GPA requirement of 2.0 to receive the certificate. To receive the certificate, a student must file a petition for graduation during their final semester prior to the application deadline as noted on the Coastline Graduation webpage (<https://www.coastline.edu/student-life/graduation.php>).

Certificate of Accomplishment

- Students must also earn a minimum of 12 units of coursework at Coastline, excluding experiential credit.
- A student with prior experience may be excused from certain certificate courses but will still need to meet the overall unit requirement specified for the certificate.
- 50 percent of the certificate program's units must be completed at Coastline regardless of how many total number of units required for the certificate can be met by prior coursework.

Course	Title	Units
Required Core		
Complete the following:		
CIS C111	Information Systems, Programming, and Database Management	3
CIS C155	Introduction to Java Programming	3