

## Associate of Science in Computer Programming and Analysis Program Code 2195

**Program Description:** The Associate in Science Degree in Computer Programming and Analysis is designed to prepare students for the dynamic world of application and web development. Students will use current technology to learn procedural and object-oriented programming as well as web design including client-side and server-side scripting. The program will culminate with a capstone course in which students will work on a hands-on group project that can be used in their portfolios.

**Career Pathway:** Science, Technology, Engineering & Math (STEM)

**Program Entrance Requirements:** HS Diploma or GED

**Additional Program Information:** You will earn Technical Certificates related to your program of study as you earn your AA, AS, AAS or Bachelor's degree.

**Related Industry Certifications:** Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses: CIW Foundations, CIW JavaScript, Linux+

**Location(s):** The majority of the courses are offered at all BC locations, including online. However, some courses may only be offered at the A. Hugh Adams Central Campus. Please consult the course schedule for specific semester locations.

**Contact Information:** Program contact information can be found at [www.broward.edu/academics/programs/computer/Pages/default.aspx](http://www.broward.edu/academics/programs/computer/Pages/default.aspx)

### Related Programs at Broward College:

Computer Programming Specialist Technical Certificate (6331)  
Computer Programmer Technical Certificate (6332)

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<b>General Education Credit Hours</b>		<b>18</b>
ENC1101	Composition	3
MAC1105	College Algebra	3
SPC1024	Introduction to Speech Communications	<b>or</b>
SPC1608	Introduction to Public Speaking	3
Humanities		3
Social/Behavioral Science		3
Biological/Physical Science		3
<b>Core Requirements Credit Hours</b>		<b>42</b>
CIS1000C	Introduction to Computer Science	3
COP1334C	Introduction to C++ Programming	3
CTS1851C	Certified Internet Webmaster Foundations	3
COP2071C	Database Design & SQL Programming	3
COP2361C	Object Oriented Analysis and Design	3
COP2335C	Intermediate C++ Programming	3
CTS2852C	Client-Side Scripting	3
CTS2857C	Server-Side Scripting	3
CIS1513C	Project Management	3
CTS1111C	Linux+	3

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Object Oriented Programming Elective*	3
Computer Programming Elective**	3
Computer Programming Elective**	3
CIS2910C      Systems Design and Development	3
<b>Total Program Credit Hours</b>	<b>60</b>

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**Notes:** Many courses have specific pre-requisite and co-requisite requirements that must be followed. Students are encouraged to consult the Course Information Table for a detailed list of all requisite requirements.

\*Object Oriented Programming Electives: COP2360C or COP2800C or COP 2222C

\*\*Student may have to take MAT1033 based on placement score. If the student does not need MAT1033, they must take two of the following courses to fulfill the Computer Programming Electives: CTS2420C, CTS2434C, CTS2437C, CTS2438C, CTS2441C, CTS2442C, CTS2445C, CTS2446C, CTS2451C, CTS2464C, COP2360C, COP2800C, COP2222C, COP 2658C, or COP2660C.

Computer literacy requirement: The computer literacy requirement will be met through completion of CIS1000C.

**Students are strongly encouraged to meet with an advisor to create an educational plan.**