

COMPUTER PROGRAMMING AND ANALYSIS
Computer Programming and Analysis Associate in Science Major Code 2195
Computer Programmer Sun Java Specialist Technical Certificate Major Code 62388

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Program Description

The Associate in Science Degree in Application Programmer, offered at the North and A. Hugh Adams Central Campuses, is designed to prepare students for the dynamic world of applications development, while also permitting the student to tailor the degree to their educational goals. Areas of choice include a wide variety of topic areas such as business and engineering programming, hardware and software support, computer applications, computer aided design, computer networking, database management, accounting, business, management, marketing, mathematics, physics, and statistics.

First Year Term I

*ENC 1101	Composition I	3
*MAC 1105	College Algebra	3
**CGS 1060C	Computer and Internet Literacy or CS Elective Computer Science Elective (2)	3
(3)Elective	Field Elective	3
*COP 1334C	Introduction to C++ Programming	3
Total Term Semester Hours		15

First Year Term II

*ENC 1102	Composition II or	
*ENC 2210	Professional and Technical Writing	3
*COP 1335C	Intermediate C++ Programming 3	
*COP 2171C	Visual Basic Programming	3
CGS 1540C	Database Management or	
CTS 1431C	Microsoft Specialist:: Access	3
SPC 1024	Intro to Speech Communication or	3
SPC 1600	Intro to Public Speaking	
Total Term Semester Hours		15

First Year Term III

(2)Elective	Computer Science Elective	3
(3)Elective	Field Elective	3
Total Term Semester Hours		6

Second Year Term I**

*CIS 2321	System Development and Design3	
*COP 1341	UNIX or	
**CTS 1111C	LINUX+	3
*COP 2331	Object Oriented Design and Prog.	3
(1)Elective	Computer Programming Elective3	
Elective	Social/Behavioral Science	3
Total Term Semester Hours		15

Second Year Term II**

(1)Elective	Computer Programming elective	3
(2)Elective	Computer Science Elective	3

(3)Elective	Field Elective	3
Elective	Humanities/Fine Arts Elective	3
Total Term Semester Hours		12
Total Program Semester Hours		63

*Requires a pre- or co-requisite. See course description in this catalog or online at www.broward.edu.

Technical courses should be taken in the sequence and term suggested unless approved by the Department's Associate Dean.

#Students choosing CTS 1111C (4 credits) instead of COP 1341 may take a two-credit computer science elective in replacement of the three credit computer science elective to stay within the number of credits for the degree.

- (1) Computer Programming Electives: CTS 1450C, CTS 1460C, CTS 2452C, CTS 2461C, CTS 2462C, CTS 2463C, or any course with prefix COP.
- (2) Computer Science Elective: Any course with prefix CDA, CEN, CET, CGS, CIS, COP, or CTS.
- (3) Field Elective: Any computer science elective or ACG 1003, ACG 2001, ACG 2011, BUL 2241, ETD 1320, ETD 2350C, GEB 1011, GEB 2112, MAC 2311, MAC 2312, MAC 2313, MAN 2021, MAR 1011, OST 1811C, PHY 1001, PHY 2048, PHY 2049, PHY 2053, PHY 2054, or STA 2023.

Students who meet these degree requirements will have satisfied the speech requirements for this major.

**CGS1060C must be completed within the first 15 hours of Broward College coursework.

It is strongly recommended that students see an academic advisor or counselor every term