

The certificate of proficiency and the technical certificate programs give the student the opportunity to earn certificates while completing steps toward an Associate of Applied Science degree.

2019-2020



## TECHNICAL CERTIFICATE PLAN PROGRAMMING/MOBILE DEVELOPMENT

Degree Code: 1181; CIP Code: 11.0202

All technical certificate-seeking students must meet the freshman assessment and placement requirements.  
If deficiencies exist, the student must complete the required CPT courses.

**A 2.0 GPA is required for graduation from the  
Technical Certificate in Programming/Mobile Development program.**

**ATTENTION STUDENTS: PLEASE SEE CURRENT CATALOG FOR  
ALL FEES AND CHARGES ASSOCIATED WITH THIS CERTIFICATE.**

This Technical Certificate in Programming will give the student the opportunity to earn a certificate while completing steps toward an Associate of Applied Science degree.

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor: \_\_\_\_\_ Student ID# \_\_\_\_\_

<u>COURSE CODE</u>	<u>COURSE NAME</u>	<u>CREDIT HOURS</u>	<u>HOURS COMPLETED</u>
<b>General Education</b> (6 credit hours)			
ENG 1003	Composition I (must earn a "C" or better)	3	_____
MATH 1113	Applied Math or higher-level mathematics course	3	_____
<b>Computer Core</b> (15 credit hours)			
CIS 1023	Programming Fundamentals/Logic		_____
CIS 1113	A+ Computer Technician I	3	_____
CIS 1503	Introduction to Operating Systems	3	_____
CIS 2503	Microcomputer Business Applications	3	_____
CIS 2723	Cybersecurity Essentials	3	_____
<b>BUS/CIS Programming Electives</b> (9 credit hours) (Choose any 3 BUS/CIS Programming courses from the list below)			
BUS/CIS _____		3	_____
CIS _____		3	_____
CIS _____		3	_____

**Program Total 30 Hours**

### BUS/CIS Programming Elective Course List

BUS 2843 Project Management	CIS 2113 App Development
CIS 1063 Structured Programming/C Language	CIS 2433 Back End Programming
CIS 1503 Introduction to Operating Systems	CIS 2443 Visual Frameworks
CIS 1513 Object Oriented Programming	CIS 2553 .NET
CIS 1133 Mobile Development	