

Short-Term Certificate (COMPUTER PROGRAMMER)

Field of Study Courses

<u>ITEM #</u>	<u>TITLE</u>	<u>CREDITS</u>
<u>CIS 150</u>	INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING	3
<u>CIS 251</u>	C++ PROGRAMMING	3
<u>CIS 285</u>	OBJECT ORIENTED PROGRAMMING	3

Short-Term Certificate (APP DEVELOPMENT WITH SWIFT)

<u>CIS 157</u>	INTRODUCTION TO APP DEVELOPMENT WITH SWIFT	3
<u>CIS 159</u>	INTRODUCTION TO GRAPHIC DESIGN FOR APPS	3
<u>CIS 220</u>	APP DEVELOPMENT WITH SWIFT I	3
<u>CIS 227</u>	APP DEVELOPMENT WITH SWIFT II	3

Short-Term Certificate (WEB DEVELOPER)

<u>CIS 207</u>	INTRODUCTION TO WEB DEVELOPMENT	3
<u>CIS 208</u>	WEB AUTHORIZING SOFTWARE	3
<u>CIS 209</u>	ADVANCED WEB DEVELOPMENT	3

SHORT-TERM CERTIFICATES REQUIRE NO GENERAL STUDIES COURSES

General Studies Courses (for an Associate in Applied Science (IT))

ENG 101 - ENGLISH COMPOSITION I - 3

SPH 106 or SPH 107 - 3

MTH 116 or Higher - 3

History or Social/Behavioral Science Elective - 3

Humanities/Fine Arts Elective - 3