

DATA SYSTEMS AND DEVELOPMENT CERTIFICATES

DATABASE FOUNDATION

Program Code: T.SDV.CER

Certificate

Minimum graduation requirement — 20 semester hours

Focuses on database applications; completion of certificate can be applied to the A.A.S. in Data Systems and Development.

Suggested Sequence

FALL	SPRING	FALL
1st Semester	2nd Semester	3rd Semester
CIS 122 or CSC 140	CSC 176 CSC 155	CSC 191 CSC Elec
CSC 128		

Required Program Courses (20–21 hours) Cr. Hrs.

CIS 122	Introduction to Computer Programming	4
or CSC 140	Computer Science I (Java)	3
CSC 128	Introduction to Linux	3
CSC 155	Systems Development I	3
CSC 176	Data Systems I	3
CSC 191	SQL	4
CSC elective		4
		4

Total Semester Credit Hours 20–21

WEB DEVELOPMENT

Program Code: T.WAP.CER

Certificate

Minimum graduation requirement — 15 semester hours

Focuses on web development skills; completion of certificate can be applied to the A.A.S. in Data Systems and Development.

Suggested Sequence

FALL	SPRING	FALL
1st Semester	2nd Semester	3rd Semester
CSC 123 or CSC 140	CIS 152 CSC 128	CSC 155 CSC 175

Required Program Courses (15–16 hours) Cr. Hrs.

CSC 123	Computer Science I (C/C++)	4
or CSC 140	Computer Science I (Java)	3
CIS 152	Web Design I	3
CSC 128	Introduction to Linux	3
CSC 155	CGI with Perl	3
CSC 175	Scripting	3
		15–16

Total Semester Credit Hours 15–16

GENERAL PROGRAMMING

Program Code: T.GPR.CER

Certificate

Minimum graduation requirement — 13 semester hours

Builds foundational programming skills; completion of certificate can be applied to the A.A.S. in Data Systems and Development.

Suggested Sequence

FALL	SPRING	FALL	SPRING
1st Semester	2nd Semester	3rd Semester	4th Semester
CIS 122	CSC 123 or CSC 140	CSC 125 or CSC 256	CSC 220

Required Program Courses (13–14 hours) Cr. Hrs.

CIS 122	Introduction to Programming	4
CSC 123	Computer Science I (C/C++)	4
or CSC 140	Computer Science I (Java)	3
CSC 125	Computer Science II (C++)	3
or CSC 256	Computer Science II (Java)	3
CSC 220	Data Structures	3
		13–14

Total Semester Credit Hours 13–14

MOBILE DEVELOPMENT

Program Code: T.MOB.CER

Certificate

Minimum graduation requirement — 10 semester hours

Builds skills needed to develop mobile apps; completion of certificate can be applied to the A.A.S. in Data Systems and Development.

Suggested Sequence

FALL	SPRING
1st Semester	2nd Semester
CSC 140	CSC 212 CSC 256

Required Program Courses (16 hours) Cr. Hrs.

CSC 140	Computer Science I (Java)	3
CSC 212	Mobile Application Development	4
CSC 256	Computer Science II (Java)	3
		10

Total Semester Credit Hours 10