

Programming Specialist – Online Student

Required Courses

Course Number	Course Name	Credit	Semester	Prerequisites/Comments
CIS 100	PC Maintenance	3	Fall	On-campus component A+ certification can be used as substitution
CIS 126	Software Applications	3	Fall	none
CIS 127	Access Applications Development	3	Spring	CIS 132, CIS 140
CIS 132	Intro to Computer Programming	3	Fall	none
CIS 133	Intro to OOP using Alice	3	Fall	none
CIS 136	Object-Oriented Programming	3	Fall	CIS 132, CIS 133
CIS 140	Database Design and SQL	3	Fall	none
CIS 141	Web Design and Maintenance	3	Spring	none
CIS 170	Web 2.0	3	Spring	none
CIS 232	Advanced Visual Basic	3	Spring	CIS 132
CIS 238	Advanced Java Programming	3	Spring	CIS 133, CIS 136, CIS 140
CIS 270	Intro to Database Programming	3	Spring	CIS 132, CIS 140, CIS 232
CIS 272	Client Server Programming	3	Fall	CIS 132, CIS 140, CIS 232
CIS 273	Web Applications-ASP	3	Spring	CIS 132, CIS 140, CIS 141
CIS 276	Web Applications-PHP	3	Fall	CIS 132, CIS 140, CIS 141
CIS 290	Systems Analysis & Design	3	Spring	Approval of advisor
CIS 299	Internship	3	Any	Approval of advisor
NET 111	Networking for Home and Small Business	3	Fall	On-campus component

Elective (choose one)

Course Number	Course Name	Credit	Semester	Prerequisites/Comments
CIS 147	COBOL	3	Spring	Recommended for programmers
CIS 252	Multimedia Production/Integration	3	Fall	
CIS 253	Computer Graphics	3	Fall	
CIS 254	Animation	3	Fall	

General Education Requirements (21.5 credits) for Associate Degree to be obtained from another institution: Accounting, CPR, Speech, Communications course, Math course, Social Science course, and Psychology or Human Relations course.

Recommended Schedule:

Fall Start

1st Fall Semester:

NET 111	Networking for Home and Small Business	3
CIS 126	Software Applications	3
CIS 132	Intro to Computer Programming	3
CIS 133	Intro to OOP using Alice (or elective)	3
CIS 140	Database Design	3

1st Spring Semester:

CIS 127	Access Applications Development	3
CIS 141	Web Design & Maintenance	3
CIS 170	Web 2.0	3
CIS 232	Advanced Visual Basic	3

2nd Fall Semester:

CIS 100	PC Maintenance	3
CIS 136	Object-Oriented Programming	3
CIS 272	Client Server Programming	3
CIS 276	Web Applications-PHP	3
	Elective (here or Spring)	3

2nd Spring Semester:

CIS 238	Advanced Java Programming	3
CIS 270	Intro to Database Programming	3
CIS 273	Web Applications-ASP	3
CIS 290	Systems Analysis & Design	3
CIS 299	Internship	4
	Elective (here or Fall)	3

Spring Start

1st Spring Semester:

NET 111	Networking for Home and Small Business	3
CIS 126	Software Applications	3
CIS 141	Web Design & Maintenance	3
CIS 170	Web 2.0	3

1st Fall Semester:

CIS 100	PC Maintenance	3
CIS 132	Intro to Computer Programming	3
CIS 133	Intro to OOP using Alice	3
CIS 140	Database Design	3
CIS 136	Object-Oriented Programming	3

2nd Spring Semester:

CIS 127	Access Applications Development	3
CIS 232	Advanced Visual Basic	3
CIS 238	Advanced Java Programming	3
CIS 270	Intro to Database Programming	3
CIS 273	Web Applications-ASP	3
CIS 290	Systems Analysis & Design	3

2nd Fall Semester:

CIS 272	Client Server Programming	3
CIS 276	Web Applications-PHP	3
CIS 299	Internship	4
	Elective	3