

COMPUTER SCIENCE

2005-2006

Certificate of Specialization

COMPUTER LITERACY

This certificate of specialization is designed to provide the student with basic exposure to computers.

Required Courses	Units
Computer Science 101 Computer Literacy	3
OR	
Computer Science 130 Survey of Computer Science	4
Comp Bus Appl 100 Computer Keyboarding	3
Comp Bus Appl 160 Excel, Introduction	1.5
Comp Bus Appl 181 Office XP	3
Total Units	10.5-11.5

RECOMMENDED ELECTIVES: See catalog

PROGRAMMING LANGUAGES

This certificate of specialization is designed to provide the student with background in computer programming.

Required Courses	Units
Computer Science 102 Introduction to Computer Software	4
Computer Science 196 Programming the Web	4
Select one set of 8 units from:	
Computer Science 175 Programming with C++	4
AND	
Computer Science 189 Data Structures, Advanced C++	4
OR	
Computer Science 151 Visual Basic 6.0	4
AND	
Computer Science 152 Advanced Visual Basic	4
OR	
Computer Science 153 Programming with Java	4
AND	
Computer Science 154 Java Data Structures	4
OR	
Computer Science 151 Visual Basic 6.0	4
AND	
Computer Science 177 Visual Basic.NET	4
Total Units	16

RECOMMENDED ELECTIVES: See catalog

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WINDOWS PROGRAMMING

This certificate of specialization is designed to provide the student with background in Windows Programming.

Required Courses	Units
Computer Science 102 Introduction to Computer Software	4
Computer Science 175 Programming with C++	4
Computer Science 189 Data Structures Adv. C++	4
Computer Science 196 Web Programming	4
Total Units	16

Computer Science 130 Survey of Computer Science	4
Computer Science 174 Programming with Java	4
Computer Science 192 Programming the Web	4
Marketing 140 e-Commerce	3
Total Units	15

RECOMMENDED ELECTIVES: See catalog

CLIENT/SERVER PROGRAMMING

This certificate of specialization is designed to provide the student with background in programming in Visual Basic and MS SQL Server.

Required Courses	Units
Computer Science 102 Introduction to Computer Software	4
Computer Science 195 Client/Server Programming	4
Computer Science 196 Programming the Web	4

Select one:

Computer Science 177 Visual Basic.NET	4
OR	
Computer Science 151 Visual Basic 6.0	4
Total Units	4

RECOMMENDED ELECTIVES: See catalog

Program requirement and course titles are subject to change without notice. Students should consult the current GWC catalog for specific course information.

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