

NORTHWEST VISTA COLLEGE
SOFTWARE DEVELOPMENT
CERTIFICATE PROGRAM
2009-2010 Catalog



Students in this program are trained in the principles and techniques used to develop software applications. Training focuses on various programming languages, software testing, database management, object-oriented programming/design, and information technology structures. The program provides students with hands-on experience developing software packages and web applications using the latest technologies in the computer industry. Teamwork, communication, and organizational skills are integrated throughout the curriculum to prepare students for employment across industries or to advance to a higher degree. Because the Software Development and Programming work environments demand highly advanced skills, it is recommended that students consider this program as an entry point to continued higher education rather than as a terminal degree. Students should consider transfer plans with universities that offer Bachelors of Applied Science and/or Bachelors of Applied Technology Degrees.

Student: _____ Date: _____
LAST NAME FIRST NAME MI

Student ID # (SSN): _____ Academic Advisor: _____

Semester I	HOURS	Semester II	HOURS
__CPMT 1305 IT Essentials I: PC Hardware and Software	3	__ITSE 1307 Introduction to C++ Programming	3
__ITSE 1302 Computer Programming	3	__ITSE 1311 Beginning Web Programming	3
__MATH 1314 College Algebra	3	__ITSE 2317 Java Programming	3
		__PHIL 2303 Introduction to Logic	3
Total	9	Total	12

Semester III	HOURS	Semester IV	HOURS
__INew 2340 Object Oriented Design	3	__ITSE 2345 Data Structures	3
__ITSE 1391 Special Topics in Computer Programming	3	__ITSW 1307 Introduction to Database	3
__ITSE 2331 Advanced C++ Programming	3		
__ITSE 2357 Advanced Object-Oriented Design	3		
Total	12	Total	6

Semester V	HOURS
__ITSE 2286 Internship – Computer Programming/Programmer – General	2
Total	2

NOTES: A course may be used only once to fulfill degree requirements.
A grade of C or higher is required for all prerequisite and technical courses; while a grade of D or higher will satisfy NVC degree requirements for non-prerequisite courses.
Most institutions require a grade of C or higher in order for a course to be considered for transfer.
Check with the transfer institution to ensure that the courses taken at NVC will apply to the appropriate degree program.
*Select courses from the Core Curriculum selection list when specific courses are not listed.

Transfer coursework is *unofficial* until all official transcripts are evaluated and posted.