

PROGRAM REQUIREMENTS

www.cvtc.edu - 1-800-547-2882

START DATE(S): August and January	EFFECTIVE: August 2010
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INFORMATION TECHNOLOGY – PROGRAMMER/ANALYST

Programmer Emphasis

Associate Degree

Course Number	Course Title	Hrs./Week	Credits	Prerequisite(s)/Comments
<u>First Semester</u>				
152-101	Programming Fundamentals-JavaScript	4	3	
152-102	Information Technology-Programmer Analyst Exploration	2	1	
152-106	Operating Systems	3	2	
152-107	Web 1 - XHTML and CSS	4	3	
152-132	SQL	4	3	152-101 or concurrent
809-197	Contemporary American Society	3	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		20	15 cr.	
<u>Second Semester</u>				
152-103	.NET - VB	4	3	152-101
152-108	Web 2 - JavaScript and PHP	4	3	152-101, 152-107
152-125	Information Architecture	4	3	
152-142	Java 1	4	3	152-101
801-195	Written Communications	3	3	(See Prepared Learner Guide)
804-133	Math and Logic	4	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		23	18 cr.	
<u>Third Semester</u>				
152-105	.NET – ASP	4	3	152-103
152-112	Business Intelligence	4	3	152-132, (152-103 or concurrent)
152-129	Java 2	4	3	152-142
152-136	Database Design	4	3	152-132
801-196	Oral/Interpersonal Communications	3	3	(See Prepared Learner Guide)
809-199	Psychology of Human Relations	3	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		22	18 cr.	
<u>Fourth Semester</u>				
152-126	Agile Programming	4	3	152-129
152-109	XML/AJAX	4	3	152-108
152-182	Programmer/Analyst Internship (128 hrs.) OR		2	152-107
152-199	Programmer/Analyst Independent Study			152-107
152-164	Web 3	4	3	152-108, (152-132 or concurrent)
801-197	Technical Reporting	3	3	801-195 with a minimum grade of C. (See Prepared Learner Guide)
804-189	Introductory Statistics	3	3	804-110 with a minimum grade of C. (See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		18	17 cr.	

TOTAL CREDITS REQUIRED = 68 2.0 MINIMUM PROGRAM CUMULATIVE GPA REQUIRED FOR GRADUATION

A grade of "C-" or better is required in all prerequisite courses.

If a student does not enroll in any courses at CVTC for two or more consecutive semesters, the student will be required to reapply with Admissions. Students must abide by any changes in admission requirements and degree requirements.



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INFORMATION TECHNOLOGY – PROGRAMMER/ANALYST: Program Outcomes

Simulation Emphasis

Associate Degree

Course Number	Course Title	Hrs./Week	Credits	Prerequisite(s)/Comments
First Semester				
152-101	Programming Fundamentals-Java Script	4	3	
152-102	Information Technology-Programmer Analyst Exploration	2	1	
152-106	Operating Systems	3	2	
152-107	Web 1 - XHTML and CSS	4	3	
152-132	SQL	4	3	152-101 or concurrent
809-197	Contemporary American Society	3	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		20	15 cr.	
Second Semester				
152-103	.NET - VB	4	3	152-101
152-108	Web 2- JavaScript and PHP	4	3	152-101, 152-107
152-160	C++ Programming	4	3	152-101
152-161	3D Modeling 1	4	3	
801-195	Written Communications	3	3	(See Prepared Learner Guide)
804-133	Math and Logic	4	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		23	18 cr.	
Third Semester				
152-142	Java 1	4	3	152-101
152-162	3D Simulation Programming	4	3	152-101, (152-161 or concurrent)
152-165	3D Modeling 2	4	3	152-161
152-167	Flash Development 1	4	3	152-101, (152-107 or concurrent)
801-196	Oral/Interpersonal Communications	3	3	(See Prepared Learner Guide)
809-199	Psychology of Human Relations	3	3	(See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		22	18 cr.	
Fourth Semester				
152-109	XML/AJAX	4	3	152-108
152-182	Programmer/Analyst Internship (128 hrs.) OR	4	2	152-107
152-166	3D Simulation Capstone	4	3	152-162, (152-165 or concurrent)
152-164	Web 3	4	3	152-108, (152-132 or concurrent)
152-168	Flash 2	4	3	152-167
801-197	Technical Reporting	3	3	801-195 with a minimum grade of C. (See Prepared Learner Guide)
804-189	Introductory Statistics	3	3	804-110 with a minimum grade of C. (See Prepared Learner Guide)
Total Semester Hrs./Wk. & Total Credits		18	17-18 cr.	

TOTAL CREDITS REQUIRED = 68-69 2.0 MINIMUM PROGRAM CUMULATIVE GPA REQUIRED FOR GRADUATION

A grade of "C-" or better is required in all prerequisite courses.

If a student does not enroll in any courses at CVTC for two or more consecutive semesters, the student will be required to reapply with Admissions. Students must abide by any changes in admission requirements and degree requirements.

Information Technology - Programmer/Analyst Tips

Before beginning this program you must have experience using basic Windows, word processing, spreadsheet, database, and presentation software. If you are not comfortable using the above mentioned software, you should take 103-102 Microsoft Office Suite (2 credits, which can count for elective credit) before starting the program or during your first semester. You must also be able to type at least 20 words per minute.

Prepared Learner

Prepared Learner classes are designed to help students prepare for a variety of college-level academics, including reading, writing, math and science. Scores on the COMPASS® or ACT assessments will help us to determine if students need to take one or more Prepared Learner classes, to improve your skills in these areas before enrolling in certain General Education courses. Students must successfully complete each required Prepared Learner class with a grade of “C” or better before registering for certain General Education courses.

Available Certificates

Consider completing one of our computer certificates if you are interested in taking classes but aren't prepared to enroll in a full program. Each certificate has courses which could also fulfill credit requirements for the Information Technology – Programmer/Analyst program.

For further information on the certificates listed below, please check our website, <http://www.cvtc.edu/dbapps/Catalog/CertByAlpha.htm>

Simulation Application Programming 1 (TC-152-1), 12 cr.

Object Oriented Application Programming (TC-152-3), 23 cr.

Database Analysis and Development (TC-152-11), 12 cr.

JAVA (TC-152-3) 15 cr.

.NET-VB/ASP (TC-152-7), 14 cr.

Web Development 1 (TC-152-8), 12cr.

Web Development 2 (TC-152-9), 12 cr.

Web Multimedia (TC-152-10), 13 cr.

3D Game/Simulation Programming 1 (TC-152-5), 12 cr.

3D Game/Simulation Programming 2 (TC-152-13), 9 cr.

Course Options

To allow for greatest flexibility, 809-166 Introduction to Ethics: Theory and Application could be substituted for **ONE** of the following:

809-172 Race Ethnic & Diversity

809-174 Social Problems

809-195 Economics

809-196 Introduction to Sociology

Math Recommendation

It is recommended that you have strong algebra skills before taking 804-133 Math and Logic. This means you have received a B or better in high school Algebra I, and hopefully, taken a second course of algebra. A score of 50 or above on the COMPASS Pre-Algebra assessment is also an indicator of satisfactory math skills.

If students need to strengthen their math (algebra) skills, they should take 854-771 Basic Algebra, before entering the program or during the first semester. Students are encouraged to visit the Academic Services Center for a free evaluation and to set up a free remediation program that should be completed before taking Math and Logic.

It is also recommended that you take Math and Logic before or at the same time as 152-101 Programming Fundamentals with VB.Net.

Summer Classes

We encourage Information Technology – Programmer/Analyst ((Programmer and Simulation Emphasis) students to enroll in one or two General Education courses during the summer sessions.

Transfer Credit

Go to the Transfer Information System at www.uwsa.edu/tis, if you would like to see what courses transfer to a public postsecondary institution in Wisconsin.

- Click on Credit Transfer Wizard
- Click on Course Wizard

You must contact the college you wish to attend to find out exactly what they expect and when you should seek admission. The Transfer Information System does not include private colleges or out-of-state institutions.

Distance Learning

Some courses are available online. Check our website www.cvtc.edu for distance learning opportunities.

Using Your Home Computer

You may be able to use your home computer to do assignments if you own the correct version of the software. Check with the program counselor(s) or program instructors for more information.

Some courses/assignments and communication with your instructor may be completed from your home computer with Internet access.

Financial Aid Consideration:

Some courses may not be eligible for financial aid. Courses must be part of a program to be eligible. A list of courses not eligible is located on www.cvtc.edu.

For More Information

Department Web Site: <http://www.cs.cvtc.edu/>

Attendance in class and lab is **ESSENTIAL** to your success