

PROGRAM REQUIREMENTS

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

START DATE(S): August and January

EFFECTIVE: **August 2011**

INFORMATION TECHNOLOGY – PROGRAMMER/ANALYST

Programmer Emphasis

Associate Degree

Course Number	Course Title	Hrs./Week	Credits	Prerequisite(s)/Comments
First Semester				
152-101	Programming Fundamentals-JavaScript	4	3	Program student
152-102	Information Technology-Programmer Analyst Exploration	2	1	
152-106	Operating Systems	3	2	Program student
152-107	Web 1 - HTML and CSS	4	3	Program student
152-132	Database 1	4	3	Program student, 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
152-136	Database 2	4	3	152-132
152-142	O O Analysis & Design-Java	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.	
Third Semester				
152-105	.NET – ASP	4	3	152-103
152-129	Java Web Programming	4	3	152-142
152-164	Database-Driven Web Design/Dev	4	3	152-108, (152-132 or concurrent)
152-159	Web Multimedia OR	4	3	152-101, 152-107
152-160	C++ Programming			152-101
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 OR	4	3	152-108
152-165	3D Modeling 2			152-161
152-112	Business Intelligence OR	4	3	152-132, (152-103 or concurrent)
152-151	Mobile Application Development			152-101
152-126	Agile Programming	4	3	152-129
152-182	Programmer/Analyst Internship (128 hrs.) OR		2	152-107
152-166	IT-P/A Capstone	3	2	152-162, 152-165
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.



PROGRAM REQUIREMENTS

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

START DATE(S): August and January	EFFECTIVE: AUGUST 2011
-----------------------------------	-------------------------------

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-JavaScript	4	3	Program student
152-102	Information Technology-Programmer Analyst Exploration	2	1	
152-106	Operating Systems	3	2	Program student
152-107	Web 1 - HTML and CSS	4	3	Program student
152-132	Database I	4	3	Program student, 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
152-142	O O Analysis & Design-Java	4	3	152-101
152-161	3D Modeling I	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				
152-129	Java Web Programming	4	3	152-142
152-162	3D Game/Simulation Programming	4	3	152-101, (152-161 or concurrent)
152-164	Database-Driven Web Design/Dev	4	3	152-108, (152-132 or concurrent)
152-159	Web Multimedia	4	3	152-101, 152-107
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 OR	4	3	152-108
152-165	3D Modeling 2	4	3	152-161
152-112	Business Intelligence OR	4	3	152-132, (152-103 or concurrent)
152-151	Mobile Application Development	4	3	152-101
152-168	Multimedia Programming & Design	4	3	152-159
152-182	Programmer/Analyst Internship (128 hrs.) OR	3	2	152-107
152-166	IT-P/A Capstone	3	2	152-162, 152-165
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.

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.

Object Oriented Programming with Java (TC-152-6) 12 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, 809-197 Contemporary American Society could be substituted for **ONE** of the following:

809-166 Introduction to Ethics: Theory and Application

809-172 Race Ethnic & Diversity

809-174 Social Problems

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 804-110 Elementary Algebra with Application, 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.

Summer Classes

We encourage Information Technology – Programmer/Analyst ((Programmer and Simulation Emphasis) students to enroll in one or two available 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