

START DATE(S): August	EFFECTIVE: AUGUST 2010
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CIVIL ENGINEERING TECHNICIAN-STRUCTURAL: Program Outcomes

Associate Degree

Course Number	Course Title	Hrs./Week	Credits	Prerequisite(s)/Comments
First Semester				
607-164	CAD Civil	5	3	<u>Fall only, Program student</u>
607-100	Drafting Fundamentals/Wood Frame Const.	6	3	<u>Fall only, Program student</u>
607-125	Mechanical Systems	4	3	<u>Fall only, Program student, 607-100 and 607-164 or concurrent</u>
607-140	Structural Analysis	5	4	<u>Fall only, Program student</u>
804-115	College Technical Mathematics 1	5	5	<u>804-110, (Prepared Learner Guide)</u>
Total Semester Hrs./Week and Total Credits		25	18 cr.	
Second Semester				
607-111	Architectural Drafting I	5	3	<u>Spring only, (606-161 or 606-161C or 607-164) and 607-100, 607-140, 607-125; Corequisite: 607-117</u>
607-117	Architectural CAD	5	3	<u>Spring only, 607-100 and (606-161 or 607-164 or 606-161C), Corequisite: 607-111</u>
607-123	Construction Steel	5	3	<u>Spring only, 607-100, 607-140 and (606-161 or 606-161C or 607-164), 607-125</u>
607-124	Construction Concrete	4	2	<u>Spring only, 607-100, and (606-161 or 606-161C or 607-164)</u>
801-195	Written Communications	3	3	<u>(Prepared Learner Guide)</u>
804-116	College Technical Mathematics 2	4	4	<u>804-114 or 804-115</u>
Total Semester Hrs./Week and Total Credits		26	18 cr.	
Third Semester				
607-113	Architectural Drafting II	5	3	<u>Fall only, 607-111, 607-123, 607-140, 607-124</u>
607-148	Structural Drafting I	6	4	<u>Fall only, 607-111, 607-123, 607-124, 804-116</u>
607-152	Construction Methods	4	2	<u>Fall only, 607-140, 607-111, 607-124</u>
607-155	Soil Mechanics Surveying	6	4	<u>Fall only, 607-111, 804-116</u>
806-154	General Physics 1	5	4	<u>804-114 or 804-115</u>
Total Semester Hrs./Week and Total Credits		26	17 cr.	
Fourth Semester				
607-149	Structural Drafting II	4	2	<u>Spring only, 607-148</u>
607-151	Technical Problems-Civil Structural	7	3	<u>Spring only, 607-113, 607-148, 607-152, 607-155</u>
607-160	Advanced Structural CAD	5	3	<u>Spring only, 607-140, 607-148</u>
801-197	Technical Reporting	3	3	<u>801-195 with a minimum grade of C</u>
809-195	Economics (See Tips for other options)	3	3	<u>(Prepared Learner Guide)</u>
809-199	Psychology of Human Relations	3	3	<u>(Prepared Learner Guide)</u>
Total Semester Hrs./Week and Total Credits		25	17 cr.	

TOTAL CREDITS REQUIRED = 70

2.0 MINIMUM PROGRAM CUMULATIVE GPA REQUIRED FOR GRADUATION

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.

Civil Engineering Technician – Structural Tips

Pre-program Status Students

Students in pre-program status have been accepted into the college but not into the program. They may be taking courses before actual entry into the core courses because:

- core courses are filled to capacity
- students wish to begin General Studies and elective courses before core courses
- students are completing academic requirements

By completing courses ahead of time, students can decrease their credit load when they reach the very demanding program core courses. These courses are typically taken by pre-program students:

606-161 or 606-161C CAD, Basic (may substitute for 607-164 CAD Civil) 801-195 Written Communications (Prepared Learner Guide) 801-197 Technical Reporting (prereq: 801-195) 804-115 College Technical Math 1 (prereq: 804-110 or Prepared Learner Guide) OR 804-113 College Technical Math 1A (Prepared Learner Guide) AND 804-114 College Technical Math 1B 804-116 College Technical Math 2 (prereq: 804-115) 806-154 General Physics 1 809-199 Psychology of Human Relations (Prepared Learner Guide)	809-195 Economics or one of the courses listed below: 809-166 Introduction to Ethics: Theory and Application 809-172 Race, Ethnic and Diversity Studies 809-174 Social Problems 809-196 Introduction to Sociology 809-197 Contemporary American Society *See the Prepared Learner Guide for the above courses.
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Before Entry into the Program:

- **Algebra Skills:** A minimum score of 45 on the COMPASS assessment pre-algebra section, 36 on the Algebra section and two years of college prep math at the high school level. All math courses require a grade of C or better.
- **Reading Skills:** A minimum score of 80 on the COMPASS reading assessment.
- **Drafting Skills:** If you have no background in drafting, we recommend an AutoCAD course.
- **Required Information Session:** Students must attend a Required Information Session.

First Semester Students

We require taking 607-100 Drafting Fundamentals/Wood Frame Construction and 607-164 CAD Civil **before or concurrent with** 607-125 Mechanical Systems because drafting ability is needed in Mechanical Systems. This requirement is particularly important for part-time students!

Transfer Credit

To see what courses transfer to a public postsecondary institution in Wisconsin, go to the Transfer Information System at www.uwsa.edu/tis,

- 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.

Part-time Students

Note that software and other technical changes are to be expected. Part-time students may be required to repeat/update coursework that does not meet current program requirements. Check with the program counselor for sequencing and availability of courses.

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.