

**Articulation Information for Students to Transfer from
Northwest State Community College to the
Department of Civil Engineering at The University of Toledo**

**Department of Civil Engineering
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Included below is information for students at Northwest State Community College (NSCC) who are considering transferring to the Bachelor of Science in Civil Engineering Program at The University of Toledo (UTOL). You will find here information about the courses that will count toward this program, how to have these courses transferred, how to apply for admission to The University of Toledo, and some information about our mandatory co-op education program. For questions, please contact Dr. Gruden or our Academic Program Coordinator, Ms. Michelle Rose at 419-530-8114 or at Michelle.Rose@utoledo.edu.

CIVIL ENGINEERING VERSUS CONSTRUCTION ENGINEERING TECHNOLOGY

There is a Civil Engineering and a Construction Engineering program at The University of Toledo. The Bachelor of Science in Civil Engineering (BSCE) is a four-and-a-half-year program with three required co-op terms. This program has a strong emphasis on *mathematics* and *calculus-based physics*. Classes are primarily taught during the day and are aimed at full-time student enrollment with alternating co-op terms beginning in the second year. This fully accredited program enables students to realize excellent careers in design, construction, project engineering, project management, sales, research and development, and many others. You can visit our site at <http://www.eng.utoledo.edu/civil/>.

Construction Engineering Technology (CET) is also a Bachelor of Science program. CET has a strong emphasis on *application* and *hands-on engineering*. Classes are scheduled for both day students and evening students and are aimed at either full-time or part-time student enrollment. Co-op experience for the construction engineering technology program is optional. Traditionally, many students who are already employed in some form of engineering take classes in this program while working at their job. This fully accredited program enables students to start or continue excellent careers in the construction or civil engineering industry. However, positions requiring advanced mathematics and calculus-based physics are not normally open for graduates in CET. Students who have an Associates of Applied Science (AAS) degree will be able to transfer their credits for a Bachelor of Science degree in Construction Engineering Technology. If you are interested in the Bachelor of Science in Construction Engineering Technology program at The University of Toledo, please contact the CET Program Director, Dr. Nicholas Kissoff at nicholas.kissoff@utoledo.edu or at 419-530-3165. You can visit our site at <http://www.cet.et.utoledo.edu/>.

MINIMUM REQUIREMENTS FOR ADMISSION TO THE BSCE DEGREE PROGRAM

In order to be accepted in the BSCE program you must have attained a cumulative GPA of at least 2.75, and must have completed Calculus I and College Chemistry with a grade of C or higher.

THE CO-OP PROGRAM

One of the degree requirements for the BSCE is three full semesters of satisfactory full time engineering work at a company. Our office in charge of the co-op program is called the Engineering Career Management Center (ECMC) and helps students find positions in companies locally, across the United States and Canada, and for some students, in foreign countries. Transfer students needing the assistance of our ECMC will normally have their first co-op semester after they have been enrolled at UTOL for at least one semester. In any case, your first co-op term will be determined based on the courses you have completed, the courses you need to take and when they will be offered.

HOW AND WHERE TO APPLY FOR ADMISSION

To apply for admission, contact the Office of Admissions [419-530-5757] or apply on our website: <http://admission.utoledo.edu/>. Be sure to indicate that you are a transfer student. The Office of Admissions will require an official transcript sent directly from the records office at your school and will base your admission on the requirements listed above. Note: if you are still in attendance, you will eventually need to have a second transcript sent which will include the grades in the courses you are currently taking in order to award you credit for these courses.

RECOMMENDED COURSES TO TAKE AND THEIR UTOL EQUIVALENTS

The following table lists courses at NSCC and their UTOL equivalents. Also indicated is the recommendation level. Courses not included in the BSCE curriculum at The University of Toledo will not apply to the BSCE degree.

Course	Course Number		Required to Transfer	Take at Either School	Other Possibilities
	NSCC	U Toledo			
Calculus I	MTH 213	MATH 1850	X		
Chemistry I		CHEM 1230	X		
Science Elective (Must not be Chemistry or Physics)				X	
Calculus II	MTH 214	MATH 1860		X	
Calculus III		MATH 2850			
Num. Methods and Lin. Algebra		MATH 2890			
Differential Equations		MATH 3860			
English Composition	ENGL 111	ENGL 1110		X	
Technical Writing X	ENGL 210 or ENGL 220	ENGL 2950 or ENGL 2960		X	
Physics I		PHYS 2130			
Physics II		PHYS 2140			
Humanities/Fine Arts	HIST, PHIL, REL, MUS, etc. Required to take two courses from two different departments.				X
Social Science	ECON, PSY, PSC, ANTH, etc. Required to take two courses from two different departments.				X
Diversity of U.S. Culture	Variety of courses. One course required.				X
Diversity of Non-U.S. Culture	Variety of courses. One course required.				X
<p>Note: One diversity course can also count for a Humanities/Fine Arts or Social Science elective credit. Thus, a student takes a total of five courses to fulfill requirements for Humanities / Fine Arts, Social Sciences and Multicultural (Diversity) Studies.</p> <p>Information on Humanities / Fine Arts, Social Sciences and Multicultural (Diversity) Studies requirements can be found at: http://www.eng.utoledo.edu/civil/multicultural.pdf</p>					
<p>Information on the Course Applicability System (CAS)</p>					
<p>The U.Select website provides current course equivalencies for transfer students. To use U.Select, simply visit www.transfer.org and click on Ohio. Then proceed as follows:</p> <ol style="list-style-type: none"> 1. Click on "Guest Login" and then "Course Equivalency Guides" 2. Choose "Ohio" and "The University of Toledo" as the institution you are transferring to 3. Choose the state and the institution that you are transferring from 4. Choose the subject area from the drop-down box <p>For example, if you are looking to see if your math course will transfer, click on the subject area at your school (such as "MATH" or "MTH") and U.Select will list the equivalent courses at the University of Toledo.</p> <p>You can also visit the following website for information on transfer course equivalency http://registrar.utoledo.edu/tca/. The current University of Toledo catalogue can be viewed at http://catalog.utoledo.edu/.</p>					

WHEN IS IT BEST TO START IN THE BSCE PROGRAM AT THE UNIVERSITY OF TOLEDO?

The short answer is to transfer to UTOL before the spring semester of your sophomore year, but this depends on the courses that you have completed that will count for a BSCE degree at The University of Toledo. The table below shows the first two years of a hypothetical schedule for students at OCC. Your actual schedule will depend on course availability and your academic background. The UTOL course CIVE2000 Professional Development is offered in spring semester and is required before your first co-op. Thus, you will need to spend at least one semester at UTOL before you can co-op, and more than one semester if you do not start at UTOL in spring semester. A good estimate for your graduation with a BSCE is two complete years after you complete your first co-op at The University of Toledo.

Freshman/Fall	Hrs.	Freshman/Spring	Hrs.	Freshman/Summer	Hrs.
English Composition	3	Technical Writing	3	Best advice is to make up deficits in English, Math, Chemistry or Physics	
Chemistry I	4	Calculus II	5		
Calculus I	5	Hum/SocSci/Multcult	3		
Construction & Surveying Draft	3	Hum/SocSci/Multcult	3		
Total	15	Total	14		

Sophomore/Fall	Hrs.	Sophomore /Spring	Hrs.	Sophomore /Summer	Hrs.
Physics I	5	Differential Equations	3	Transfer to UTOL or make up deficits in English, Math, Chemistry or Physics and/or take science elective or Hum/SocSci/Multcult electives	
Calculus III	4	Physics II	5		
Land and Route Surveying	3	Science Elective	3		
Hum/SocSci/Multcult	3	Transfer to UTOL or make up deficits in English, Math, Chemistry or Physics			
Total	15				

LONG RANGE PLANS AT THE UNIVERSITY OF TOLEDO

Engineering students are assigned to one of two long range plans in the first year of their attendance at UTOL. The long range plans are designated 'Long Range Plan A' and 'Long Range Plan B'. Transfer students are evaluated for the courses that they have completed before and after transferring to UTOL and assigned to the long range plan that best suits their situation so that they can graduate as soon as possible. Flow charts are available for the long range plans. The flow charts can be seen at <http://www.eng.utoledo.edu/civil/newweb/undergraduate/flowcharts.htm>.