

Effective 2014/2015

Career Cluster ▶

hitecture & Construction Career Pathway ▶

Design & Pre-Construction

LAND SURVEY TECHNICIAN (10-607-7)

Associate of Applied Science Degree
Most Courses Offered at iMET Center

[∆] Suggested Sequence		Course Number		Course Title		Requisites	Credits	Hrs/Wk Lec - Lab
		607-103	*	Introduction to Civil Engineering &	Architecture		2	1-2
_		607-106	*	Building Materials		Coreq: 607-107	2	1-2
Ē		607-107	*	Construction Methods		Coreq: 607-106	2	1-2
es		607-169	*	Surveying Basics		Prereq: 834-110 (See Note 1)	2	1-2
Semester		607-170	*	AutoCAD for Construction Science	es		2	1-2
Š		804-115		College Technical Math 1		Prereq: 834-110 (See Note 1)	5	5-0
		809-198		Psychology, Introduction to		Prereq: 838-105 (See Note 1)	3	3-0
		607-102	*	Conflict Resolution in CET			2	1-2
,		607-128	*	Construction Estimating		Prereq: 607-106; 607-107	3	2-2
<u>f</u>		607-132	*	Structural Mechanics		Prereq: 804-114 OR 804-115	3	2-2
Semester		607-136	*	Construction Project Management	t	·	2	1-2
Ě		607-187	*	3D CAD: Digital Terrain Modeling			2	1-2
လိ		614-150	*	3D CAD: Building Information Mod	deling		2	1-2
		801-136		English Composition 1		Prereq: 831-103 (See Note 1)	3	3-0
က		607-117	*	Geographical Information Systems	s I		2	1-2
		607-127	*	Civil Engineering Drafting			3	1-4
ste		607-173	*	Surveying Fundamentals		Prereq: 607-169	3	1-4
Ğ		607-174	*	Land Surveying - Data Processing	g	Coreq: 607-173	2	1-2
Semester		809-196		Sociology, Introduction to	-	Prereq: 838-105 (See Note 1)	3	3-0
ဟ		806-154		General Physics 1		Prereq: 804-115	4	3-2
4		607-108	*	Research and Boundary Location		Prereq: 607-173	3	1-4
		607-150	*	Survey Construction/ Route/ High	way	Prereq; 607-173	4	2-4
ste		607-161	*	Legal Aspects of Land Surveying		Coreq: 607-108	2	2-0
Ü		801-197		Technical Reporting		Prereq: 801-136	3	3-0
Semester								
		ıke 6 elective ıggested Elec		lits. Any associate degree level c s:	ourse may be	taken as an elective.	6	
Electives		607-154 Sew 607-137 GPS		nd Water (2 Cr) stems (2 Cr)		Registered Land Surveyor		
Elec				s of Inspections (3 Cr) hnology/Internship (1 Cr)	Licensed Land S the 6 elective cre	peets the educational requirements to become a urveyor in the State of Wisconsin as long as 4 of edits are additional math-related credits approved instructor of the CET program.		
Λ	1						70	



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PROGRAM DESCRIPTION

The Land Survey Technician program focuses on a wide variety of aspects within the profession of Civil Engineering – beginning with surveying, transitioning into design, and resulting in construction. The first year classes are mostly the same for programs in the Construction Sciences Group (see Note 6). Basic skills are developed and students are exposed to all areas of the various professions. This allows the student to be able to understand and communicate across the professions, plus it allows the student to discover what area they really enjoy working in. The second year focuses on aspects specific to Land Surveying. The program is designed as a fusion of education and application; hence all the core classes are tied to real world experiences with a significant influx of participation from potential future employers. Some students use this program as a place to prepare themselves to transfer to a four year university. Most, however, use this program as a means to develop the skills that allow them to obtain a productive career in various aspects of land surveying.

PROGRAM LEARNING OUTCOMES

Graduates of the Land Survey Technician Program should be able to:

- 1. Exhibit skills in multiple CAD environments, specifically AutoCAD and Revit
- Measure field locations
- 3. Develop 3D computer models, maps, and drawings based field measurements.
- 4. Apply building codes to existing conditions and proposed designs.
- 5. Develop structural details for purposed conditions.
- 6. Differentiate between the various areas and functions within the profession.
- 7. Understand quantities, materials, equipment and methods used in the profession.
- 8. Exhibit proper and clear documentation and reporting skills
- 9. Exhibit individual ability to properly solve a problem
- 10. Work cooperatively in groups

CORE ABILITIES

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

- 1. Act responsibly
- 2. Communicate clearly and effectively
- 3. Demonstrate essential computer skills
- 4. Demonstrate essential math skills
- 5. Develop job seeking skills

- 6. Respect themselves and others as a member of a diverse community
- 7. Think critically and creatively
- 8. Work cooperatively
- 9. Value learning

ADMISSION REQUIREMENTS

- 1. Students must submit an application and \$30 fee.
- Students must complete reading, writing, math, and computer skills placement assessments.
- 3. Students must submit official high school, GED, or HSED transcripts.

GRADUATION REQUIREMENTS

- 1. Minimum 70 credits with an average of 2.0 or above.
- 2. *A 2.0 ("C") or above for these specific major core courses.

For a complete list of Graduation Requirements check the Student Handbook.

NOTES

- A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
- 2. Any course may be taken prior to enrollment in the program, assuming prerequisites and corequisites have been satisfied (or waived with department approval).
- This is a very intense and challenging program. Poor existing skills, especially poor math skills, can always be improved. As long as you have the heart and desire to succeed, the instructors will work with you.
- Classes offered at Elkhorn Campus via NODAL delivery. See www.gtc.edu for details.
- 5. Blackhawk Technical College students may take the majority of the core classes in this shared program via NODAL delivery at BTC's Janesville campus.
- 6. The programs in the Construction Science Group include: Civil Engineering Tech: Highway Technology, Land Survey Technician, Architectural-Structural Engineering Technician, and Civil Engineering Technology: Fresh Water Resources.

OTHER INFORMATION

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult the Master Class Schedule for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

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H	For a complete list of course	descriptions (and	possible online courses) for this program, please	se consult Web Advisor on our web i	page at	.www.atc.edu

My advisor is My advisor's contact information is
