#### 1

# SURVEYING ENGINEERING TECHNOLOGY (CERTIFICATE T0879)

## **Natural Sciences Division**

#### **Certificate T0879**

The Surveying Engineering Technology certificate provides students with introductory skills that lead to a career in Surveying Engineering Technology. The focus of the program is on the examination and documenting of an area's boundaries and features for the purposes of constructing contour maps, the application of geographic information systems (GIS), the creation of technical communication and documentation, and the applications of unmanned aircraft systems for land surveying. Students will complete substantial projects to aid in their career prospects. This advanced level certificate may aid in the student's search for an entry-level position as a surveying technician, computer aided design (CAD) technician, engineering technician, field technician or transfer into a discipline-related program.

## **Required Courses**

Course Prefix	Course Name	Units
ENGR 1	Introduction to Engineering	2
ENGR 1C	Engineering Critical Thinking	3
ENGR 18	Introduction to Engineering Graphics	3
ENGR 24	Engineering Graphics	4
GEOG 10	Introduction to Geographic Information Systems	3
Choose one of the fo	ollowing:	3-4
MATH 150	Trigonometry	
or MATH 160	Precalculus Mathematics	
or MATH 180	Calculus and Analytic Geometry I	
SURV 1A	Surveying	3
SURV 1B	Surveying	3
SURV 1C	Computer-Aided Drafting for Surveyors and Civil Engineers	3
AERO 160	Unmanned Aircraft Systems Basic	4
Total Units	eaaa. a yaxan a baana	31-32

### **Program Learning Outcomes**

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/instruction/outcomes/sloinfo.html) for this program.