A. Course Description

- **Credits:** 1.00
- **Lecture Hours/Week:** 1.00
- **Lab Hours/Week:** 0.00
- **OJT Hours/Week:** 0
- **Prerequisites:**
  - CIVL 1151: Basic CAD

- **Corequisites:** None
- **MnTC Goals:** None

An introductory course in photogrammetry using UAV (unmanned aerial vehicle) aka drones. Students will learn the correct use of drones as a survey/map making aid. Students will fly a drone and acquire data for use in making plans and maps for civil projects.

B. Course Effective Dates: 12/16/19 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Fly and acquire data with the use of a UAV
2. Learn FAA rules and regulations
3. Learn how to ethically and legally use drones
4. Learn of other uses of drones like bridge inspection
5. Post process the data and insert it into AutoCad Civil 3D

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information
None noted