

# Geomatics Tech (GEMT)

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## Courses

### ***GEMT 5530 Principles and Applications: 3 semester hours.***

Introduction to theory and use of GPS for mapping and survey quality application. Includes basic and advanced principles of GPS positioning. Differential GPS, types of GPS receivers, static, kinematics and RTK procedures, vector processing and adjustment using least squares concept, OPUS processing, coordinate creation and export results for use in specific application. PREREQ: Permission of instructor.

### ***GEMT 5532 Principles of Photogrammetry: 3 semester hours.***

Introduction to vertical photo geometry and its scale, relief and tilt displacement, stereoscopic viewing, parallax measurement, mosaics, orientations, development of planimetric and topographic maps, flight planning, softcopy photogrammetry and introduction to aerial triangulation. PREREQ: CET 0224, GEMT 2224 or permission of instructor.