

DD-1601-0022

(Advanced Geodetic Survey (AGS))

Course Number: 412-104; 412-104 (21S30-BNCOC), Phase 2; 21S30.

Location: Defense Geospatial-Intelligence School, Fort Belvoir, VA; The School of Geospatial-Intelligence, Fort Belvoir, VA.

Length: 13–14 weeks (469 hours).

Exhibit Dates: 2/06–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan, perform, compute, and adjust topographic, geodetic, and Global Positioning System (GPS) surveys.

Instruction: Instruction includes lectures, demonstrations, and practical problems as well as hands-on use of equipment. Topics include an introduction to calculators, computers, and software surveying packages; geodesy and management for survey operations; instruction on checking field data and computations; computation of and adjustment to geodetic surveys; performance of field adjustments and calibration of survey equipment; observing, recording, and computing astronomical azimuths and astronomical positions; examination of special types of surveys such as gravity, magnetic, and hydrographic; and current upgrades in technology such as total stations, electronic data collection, and state-of-the-art software.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in geodetic computation. In the upper-division baccalaureate degree category, 3 semester hours in geodetic and control survey, 3 in Global Positioning System (GPS) operations and computation adjustment, and 3 in surveying computations and adjustments (2/06)(5/08).