



## Community Education

Fall 2024

# Fundamentals of Surveying: Exam Prep

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### **Course Description:**

This seven-week intensive course will prepare students to take the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Surveying (FS) examination – “the FS Exam”. Concepts and topics covered over the seven weeks will include: the Public Land Survey System (i.e. section, township, and quadrangle layout, single and double proportioning, closing corners, meander lines), easements, title, deeds, descriptions, evidence, simultaneous conveyances, records research, rules of construction, riparian rights, order of operations, quadratic equations, triangles, degree to decimal degree conversions, bearing to azimuth conversions, magnetic declination, horizontal and vertical curves, area calculations, intersection of lines/slope, photogrammetry, statistics and probability, field measurements and corrections, differential level loops, geodesy, state plane coordinates, grid/ground calculations, least squares and traverse adjustments.

### **Learning Outcomes:**

- Preparation and readiness for the FS Exam

### **Course Schedule:**

Week 1-7: FS exam review

**Selected Bibliography/Resources:**

- Fundamentals of Surveying: Exam Study Manual (2nd Edition) by Dane Courville, PLS (available on Amazon)

**Class Evaluation:** Class evaluations are sent by email. Sometimes the email will be delivered to your “junk mail,” but we can assure you it’s from Clark College only. Your responses are completely anonymous. If you do not see your evaluation immediately after class, look in your junk mail and send it to your email address. If you do not receive an evaluation please Call 360.992.2939.

**Inclement Weather:**

If the College cancels due to icy conditions you can find this on the college website [www.clark.edu](http://www.clark.edu) ~ If Community Education concludes that the weather is too hazardous we may also decide to cancel this class. In that case you will receive both a phone call and email. Make certain that we have your correct contact information by viewing the class roster.

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[www.clark.edu/cce/](http://www.clark.edu/cce/)