

Surveying Technology - Program Learning Outcomes

	Program Learning Outcomes	Student Learning Outcomes	Measure of Assessment and Criteria for Success
1.	Students will exhibit proficiency in standard field data measurement and collection systems	<ul style="list-style-type: none"> • Students will be able to set-up and operate a total station instrument • Students will be able to correctly observe horizontal and vertical data • Student will be able to collect data and record it in both manual and digital formats 	75% of the students will receive a grade of B or better in SRV110, SRV111 and SRV 240
2.	Students will exhibit an understanding of land record and land data systems.	<ul style="list-style-type: none"> • Students will be able to research the ownership of certain parcels of land at a county tax assessors office and/or GIS department • Students will be able to research deeds and trace a chain of title at a county registry of deeds 	75% of the students will receive a grade of B or better in SRV 210, SRV 220 and SRV 260
3.	Students will be proficient in the computational procedures needed to compute a closed traverse and a closed level circuit.	<ul style="list-style-type: none"> • Students will be able to apply the necessary gross and systematic error corrections to traverse and leveling observations • Students will be able to compute the horizontal coordinates (X & Y) in traverses and vertical elevations (Z) in level circuits • Students will be able to calculate the closure and adjustments for random errors in traverses and level circuits 	75% of the students will receive a grade of B or better in SRV 110, SRV 111, SRV 250
4.	Students will understand and know how to apply the Minimum Standards of Practice for Land Surveying mandated by NCAC 21-56.16 of the NC Board of Examiners for Engineers and Land Surveyors and in NCGS 47-30	<ul style="list-style-type: none"> • Students will be able to perform proper research for the definition of the boundaries of a parcel of land to arrive at the correct limits of ownership • Students will be able to perform traverse surveys and level circuits that meet minimum closure requirements • Students will be able to prepare plats, maps, and descriptions that meet the minimum requirements. 	75% of the students will receive a grade of B or better in SRV 210, SRV 220, SRV 230, and SRV 260