

LAND SURVEYING TECHNOLOGY (A.A.S.)

Land surveying technology students obtain a sound technical background in fundamental land surveying principles, techniques and skills, augmented by field training in forestry and natural resources concepts and techniques. They become well-rounded technical specialists capable of teamwork, communication and problem solving, with life-long learning skills and abilities.

The program provides students with a unique and highly valued combination of surveying and land resource knowledge and related skills. Students gain basic field skills in tree identification, ecological concepts, natural resources measurements, geographic information systems, and the use and maintenance of hand and power tools, while also being exposed to focused topics including subdivision surveys, boundary surveys, construction and topographic surveying, survey law, and more. Graduates are well prepared to enter the field of land surveying through a carefully planned combination of classroom lectures, demonstrations and hands-on experience. Students earning this degree are also positioned to pursue New York State licensure in land surveying. The educational program in land surveying technology, leading to the associate of applied science degree in land surveying technology, is accredited by the ETAC Accreditation Commission of ABET, <https://www.abet.org/>.

Students wishing to pursue a baccalaureate degree may wish to investigate programs in the Sustainable Resources Management Department such as Construction Management. The Ranger School also has an articulation agreement with SUNY Alfred State for students wishing to pursue a baccalaureate in the land surveying field.

The first year land surveying technology curriculum consists of general studies courses which may be taken at any accredited four-year, community, or technical college.

First Year Required Courses

Course	Codes*	Credits
General Biology with lab	G	4
Physics with a lab	G	4
English with a Focus on Writing (Two 3-credit courses)	G	6
Trigonometry or pre-calculus (1 course)	G	3
Diversity, Equity, Inclusion & Social Justice	G	3
Total Maximum Transfer Credits		20

Second Year Required Courses

FTC 200	Dendrology	3
FTC 202	Intro To Surveying	3
FTC 204	Intro/Nat Res Measurements	4
FTC 205	Comp-Aided Draftng&Dsgn I	2
FTC 206	Forest Ecology	4
FTC 207	Communications and Safety	3
FTC 208	Remote Sensing and GIS	3
FTC 214	Leadership & Orgnztnl Perfrmnc	2
FTC 225	Timber Transportn&Utilization	2
FTC 239	GIS Practicum	1
FTC 251	Adv Survey Measure&Comp	4
FTC 253	Survey Law	3
FTC 255	Boundary Surveying	3
FTC 256	Subdivision Surveys	2
FTC 257	Construction&Topo Surveys	3
FTC 259	Cmptr-Aided Draftng & Dsgn II	2

Total Minimum Credits For Degree: 64

* **Special Course Codes** (Code indicates course meets certain program or accreditation requirements. Ignore if there is no relevance to this program of study.) **G** = General Education Course (GenEd), **E** = Engineering, **ES** = Engineering Sciences, **M** = Mathematic, **NS** = Natural Sciences, **PE** = Professional Education, **S** = Summer-only

