SURVEYING/GEOMATICS (AAS)(PLAN CODE: SUTSGAPT)

Academic Plans, known as programs, include an overview description and a summary of program requirements. You can search the online catalog via the Academic Plan links on the right for a desired program or a specific course information.

Code	Title	Credits/Units
General Education Requirements		
Communication Skills (minimum 6 units required)		6
PTWR 135	Introduction to Applied Technical Writing (recommended)	
	Course Options (https://catalog.clark.edu/degree-certificate-requirements/transfer-degree-distribution-list/#communication)	
Health & Physical Education (minimum 3 units required)		3
HPE 220	Occupational Wellness (recommended)	
Computational Skills (minimum 3 units required)		
MATH 103	College Trigonometry	5
Human Relations (minimum 3 units required)		3
CMST& 210	Interpersonal Communication (recommended)	
Humanities (minimum 3 units required)		3
	Course Options (https://catalog.clark.edu/degree-certificate-requirements/career-technical-degrees-certificates-distribution-list/#humanities)	
Social Sciences (minimum 3 units required)		3
	Course Options (https://catalog.clark.edu/degree-certificate-requirements/career-technical-degrees-certificates-distribution-list/#social-sciences)	
Natural Sciences (minimum 3 units required)		3
PHSC 101	General Physical Science (recommended)	
Major Area Requirements		
BUS 169	Introduction to Excel	3
ENGR 140	Basic Autocad	4
ENGR 113	Engineering Sketching and Visualization	2
MATH 110	College Algebra With Support (or higher)	5
or MATH 111	College Algebra	
MATH& 151	Calculus I (or higher)	5
or SURV 199	Cooperative Work Experience	
SURV 104	Survey Computation	5
SURV 121	Field Survey I	5
or ENGR 121	Field Survey I	
SURV 122	Field Survey II	5
SURV 123	Professional Ethics	1
SURV 125	Introduction to GIS	3
SURV 163	Route Surveying	5
SURV 202	Boundary Surveys	4
SURV 203	Legal Descriptions	3
SURV 223	Boundary Law I	3
SURV 225	Subdivision Planning and Platting	3
SURV 250	Arc GIS I	3
SURV 253	Introduction to GPS	3
SURV 255	Emerging Technology	3
SURV 264	Survey Software Applications	4
Total Credits/Units		**95**

Program Outcomes

Program outcomes are overarching skills that are emphasized and reinforced throughout several courses in a specific program; they are measurable statements that define what students should know or be able to do by the end of a certificate or degree at Clark College. After successful completion of this program, students will be able to:

- Evaluate, analyze, and explain events, behaviors, and institutions using perspectives and methods in the Social Sciences. (GE)
- Apply a method of scientific inquiry, valid to the natural sciences, to evaluate claims about the natural world. (GE)
- Articulate well-considered ideas and written claims to an academic audience, using effective rhetorical techniques, properly credited evidence, and a command of Standard English. (GE)
- Demonstrate progress toward healthier behaviors. (GE)
- Demonstrate and clearly explain an effective strategy to solve a quantitative problem. (GE)
- Demonstrate interpersonal/human relations skills. (GE)
- Interpret the human experience, within appropriate global and historical contexts, through evaluation, analysis, creation, or performance. (GE)
- Demonstrate use of modern technology, industry standard software, and tools to collect, analyze and interpret data for surveying solutions.
- Apply problem solving skills as a member of a professional team in a field crew.
- Communicate in written form, verbally, and graphically with surveyors and engineers.
- Solve applied mathematical problems related to land surveying.
- Prepare complete field records.
- Practice a code of ethics prescribed by the professional organizations and state codes.

Program maps are a suggested academic plan and should not be used in the place of regular academic advising appointments. Your student entry method, placement, course availability, and program requirements are subject to change and transfer credit(s) may change your map/plan. To view the current suggested map for your program please visit our website https://programmap.clark.edu/academics (https://programmap.clark.edu/academics/)