



CIVIL/SURVEYING ENGINEERING TECHNOLOGY

Associate in Science Degree

As you might imagine, with the construction boom comes a surging demand for related occupations, such as Surveyors or Civil Engineers. Valencia's Associate in Science Degree in Civil/Surveying Engineering Technology is designed to meet the engineering demands for these projects by focusing on the design of highways, causeways, airports, water control systems, and field layout of property boundary lines, subdivisions, residential and commercial building construction. Students are trained to work as qualified technicians in the challenging career fields of civil engineering and land surveying. With Central Florida as one of the major areas of growth, this program offers many exciting career opportunities.

Potential Careers

- Civil Engineering Aide
- Surveying Party Chief
- Surveying Technician
- Survey and Mapping Aide
- Civil Engineering Technician
- Civil/Surveying Drafter
- Civil Engineering CADD Operator
- Field Inspector

Potential Earnings

\$40,000 - \$50,000 per year

Contacts

Perspective Students:

Contact Enrollment Services at enrollment@valenciacc.edu or call 407-582-1507.

Current Students:

Mr. Shannon Hellard <i>Program Director/Professor</i>	West Campus: 407-582-1302 e-mail: shellard@valenciacc.edu
Ms. Beverly Johnson <i>Career Program Advisor</i>	West Campus: 407-582-1890 e-mail: bjohnson@valenciacc.edu

For more information, visit our Website at:
valenciacc.edu/departments/west/engineering

A.S. to Bachelor's Degree Career Path...

Now the A.S. degree has a career path to continue to a Bachelor's degree. All of Valencia's A.S. degrees will transfer into the new B.A.S. program at UCF's regional campuses, as well as other universities. The B.A.S. degree has seven different tracks you can specialize in – and the cool thing is, the specialization you major in does not have to be in the same area as the A.S. degree.

Check it out at regionalcampuses.ucf.edu/bas

The Internship & Placement Office

is available to assist you in locating an internship or job resources.

Vertrilla Hunt, *East Campus*: 407-582-2726

Carmen Diaz, *West Campus*: 407-582-1034

Matthew Abalos, *Osceola Campus*: 407-582-4196

For more information, visit: valenciacc.edu/ipo

CIVIL/SURVEYING ENGINEERING TECHNOLOGY

Civil/Surveying Engineering Technology

Associate in Science Degree

The program has been planned to provide theoretical and classroom experience which closely parallels on-the-job activities. The Civil/Surveying Engineering Technology Associate in Science Degree simulates job situations found in a civil engineering and land surveying offices. This program applies to the design of highways, airports, water control systems, and field layout of property boundary lines, subdivision, residential building construction, and commercial building construction.

Graduates of specific programs at TECO may be eligible for the award of credit in specific courses in this program. For information and requirements, visit the Valencia Web site at valenciacc.edu/asdegrees/tec.cfm to view the articulation agreement. Eligible students should contact the related academic department and/or career program advisor at Valencia for the award of credit.

Several Florida public universities recently have begun to provide opportunities for A.S. degree graduates to pursue a bachelor's degree. Information about such opportunities, including those at the University of Central Florida, is found in the Introduction to this catalog section. Students who want to continue their education should contact their university of choice.

Students are strongly encouraged to consult a career program advisor in the department office for assistance in determining the best education plan for their career goals.

Although scheduling may not always provide for the following progression of courses, students should use the foundation, intermediate and advanced course sequence as a guide in program planning.

All degree-seeking students must satisfy entry testing requirements and satisfactorily complete all Mandatory Courses in reading, student success, mathematics, English, and English for Academic Purposes in which the student is placed.

FOUNDATION COURSES

Course	Title	Credits
ETD 1031C	Introduction to Construction/ Drafting Technology	2
ETD 1100C	Engineering Drawing	3
ETD 1320	Introduction to CADD	3
MTB 2321	Technical Mathematics	4
* SUR 1101C	Basic Surveying and Measurements (Surveying I)	4
+* ENC 1101	Freshman Composition I	3
SUR 2390	Introduction to Geographic Information Systems	4
	Total Credits	23

INTERMEDIATE COURSES

Course	Title	Credits
* ETD 1340	Advanced CADD	3
* SUR 2202C	Highway Drafting and Route Design	4
ETC 1251	Engineering Materials and Processes	4
* BCN 2405	Statics and Strength of Materials Civil/Surveying Engineering Technology Elective(s)	4 2
	Science or	
+* Mathematics	(See A.S. Gen Ed Requirement)	3
	Total Credits	20

ADVANCED COURSES

Course	Title	Credits
* SUR 2460	Subdivisions	3
* SUR 2640	Advanced Surveying Computations	4
ETC 2521	Hydraulics and Hydrology	4
	Humanities (See A.S. Gen Ed Requirement)	3
	Social Science (See A.S. Gen Ed Requirement)	3
	Gen Ed	
	Elective (See A.S. Gen Ed Requirement)	3
	Total Credits	20
	Total Degree Credits	63

CIVIL/SURVEYING ENGINEERING TECHNOLOGY ELECTIVES

The Electives requirement may be satisfied with any course(s) in the Course Descriptions section of the Valencia Catalog with the subject prefix of BCN, BCT, ETC, ETD, ETM, SUR or TAR.

NOTES:

Specialized program courses are offered on the West Campus.

General Education courses are in bold print in the course listing.

This A.S. degree is transferable to UCF's regional campuses offering the B.A.S. degree. Check with UCF regional offices for their local campus offerings. The degree may also be transferable to B.A.S. programs offered by USF and DBCC. Check with USF and DBCC for acceptance of this degree.

Students will be required to take 36 credit hours of General Education courses to earn a Bachelor of Applied Science (B.A. S) degree from UCF.

To graduate from UCF's B.A.S. program, students will also have to fulfill the state's foreign language requirement which is as follows: Two years of the same high school foreign language or two semesters of the same college-level foreign language.

Specialized courses may not be offered every session or on every campus.

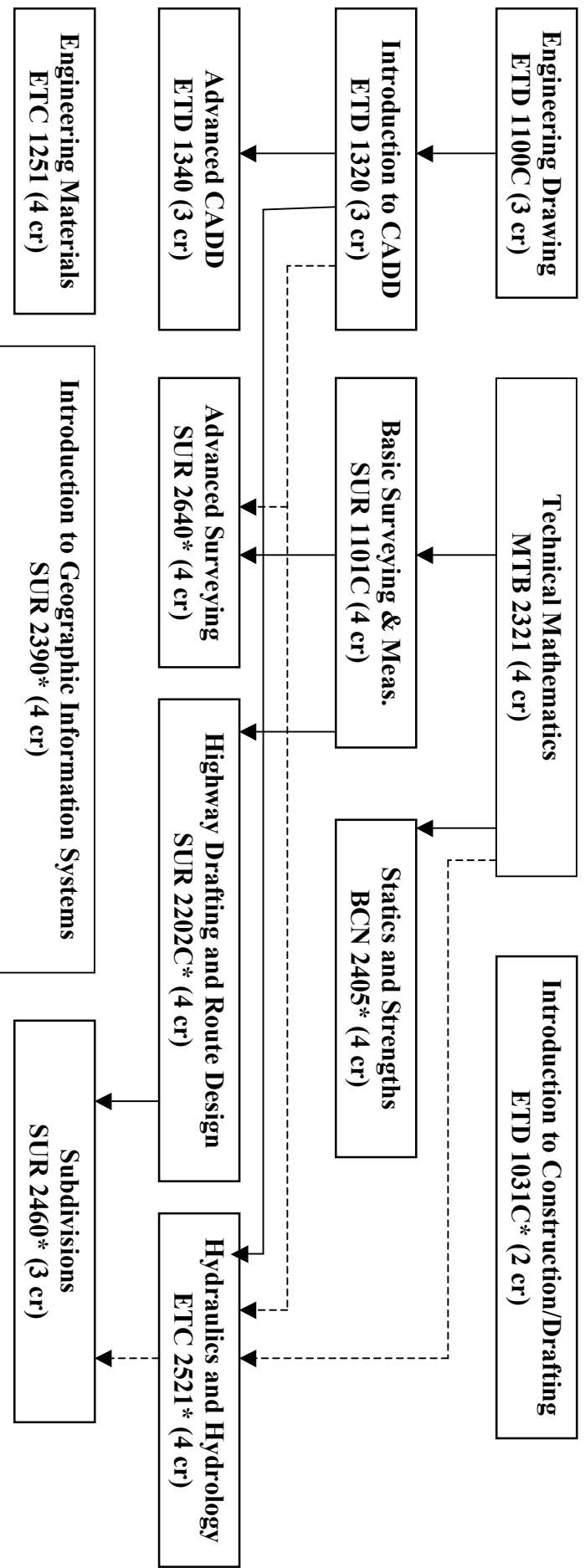
+ This course must be completed with a grade of C or better.

* This course has a prerequisite; check description in Valencia catalog.

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Flowchart of Technical Courses



LEGEND:

Required Prerequisite →

Recommended Sequence - - - - ->

* Courses not offered every session check with advisor.