



DRAFTING AND DESIGN TECHNOLOGY

Associate in Science Degree (and related Certificates)

GET ON THE RUNWAY TO A GREAT CAREER.

Ready to be a translator? In a sense, that's exactly what a graduate of the Drafting and Design Technology program will be qualified to do, bridging the gap between engineering concepts and the production personnel who must carry out those concepts. The drafting and design technician brings concepts and language to fruition in graphical instructions for actual production. Today's high-tech information explosion has left its mark on all facets of the drafting and design industry. Draftsman today are required to work more closely with the engineer and to be much more highly skilled and versatile. Valencia's A.S. Degree program prepares students for this challenging field utilizing state-of-the-art drafting and design techniques and computer-aided drafting and design. Graduates can explore excellent career opportunities in mechanical assembly layout, or electro-mechanical drafting and engineering.

For a Jump Start on a Great Career...

Take the fast track toward reaching your career goals with one of our certificate programs. Designed to equip you with specialized skills for immediate employment, these programs typically do not contain general education courses, but rather courses related to your degree. They can also be combined with other certificates in the same program, like building blocks, to help you progress toward completing your A.S. degree.

- Drafting - AutoCAD (15 credits)
- Drafting with Specializations in: (24 credits)
 - Architectural Drafting
 - Mechanical Drafting
 - Surveying Drafting

Potential Careers

- Drafting and Design Technician
- CADD Operator/Specialist
- Drafting Designer
- CADD Drafting Technician/Specialist
- Mechanical Engineering Assistant
- Mechanical Drafter
- Tooling Drafter
- Mechanical Designer

Potential Earnings

\$25,000 - \$31,000 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

DRAFTING AND DESIGN TECHNOLOGY

Drafting and Design Technology

Associate in Science Degree

This program is designed to train technicians to assist engineers by translating ideas, rough sketches, specifications and calculations into complete and accurate working drawings. In addition, instruction is given in three CADD (Computer Aided Drafting and Design) courses which prepares the student for employment with institutions using computer assisted engineering and design.

Graduates of specific programs at Orange County Tech Centers and 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 valenciac.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
+* ENC 1101	Freshman Composition I	3
ETD 1031C	Introduction to Construction/ Drafting Technology	2
ETD 1100C	Engineering Drawing	3
MTB 2321	Technical Mathematics	4
Humanities Science or	(See A.S. Gen Ed Requirement)	3
+* Mathematics	(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	24

INTERMEDIATE COURSES

Course	Title	Credits
* SUR 1101C	Basic Surveying and Measurements (Surveying I)	4
* ETD 1701	Mechanical Drafting I	3
ETC 1251	Engineering Materials and Processes	4
ETD 1320	Introduction to CADD	3
* TAR 1120C	Architectural Drawing I Drafting and Design Technology Elective(s)	4 3
	Total Credits	21

ADVANCED COURSES

Course	Title	Credits
* ETD 2614	Electromechanical Drafting	4
* ETD 1340	Advanced CADD	3
* ETD 2731	Mechanical Drafting II	3
* BCN 2405	Statics and Strengths of Materials	4
* ETD 2355	3-D CADD	3
	Total Credits	17
	Total Degree Credits	62

DRAFTING AND DESIGN 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:

All specialized program courses are offered on the West Campus; some specialized courses are offered at other locations.

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 Daytona State College. Check with USF and Daytona State College 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.

DRAFTING AND DESIGN TECHNOLOGY

Drafting with Specializations in:

Architectural Drafting

Mechanical Drafting

Surveying Drafting

Technical Certificate

This program is designed to prepare individuals for entry-level positions in architectural, mechanical, and surveying drafting that require computer-aided drafting skills. The content prepares the student to draw, dimension, and print drawings by computer in the respective specialization area.

FOUNDATION COURSES

Course	Title	Credits
ETD 1100C	Engineering Drawing	3
ETD 1320	Introduction to CADD	3
* ETD 1340	Advanced CADD	3
MTB 2321	Technical Mathematics	4
	Specialization Electives (All from the Same Specialization)	11
	Total Certificate Credits	24

ARCHITECTURAL DRAFTING SPECIALIZATION ELECTIVES

Course	Title	Credits
BCN 1272	Construction Blueprint Reading	3
* BCN 2941	Internship Exploration in Construction	1-4
* BCT 2770	Building Construction Estimating	4
* ETD 2332	Customizing and Directories - CADD	3
* ETD 2355	3-D CADD	3
ETC 1251	Engineering Materials and Processes	4
SUR 2390	Introduction to Geographic Information Systems	4
* TAR 1120C	Architectural Drawing I	4
* TAR 2033C	Architectural Design	3

MECHANICAL DRAFTING SPECIALIZATION ELECTIVES

Course	Title	Credits
* ETD 1701	Mechanical Drafting I	3
* ETD 2332	Customizing and Directories - CADD	3
* ETD 2355	3-D CADD	3
* ETD 2614	Electromechanical Drafting	4
* ETD 2731	Mechanical Drafting II	3
* ETD 2941	Internship Exploration in Drafting and Design	1-4
SUR 2390	Introduction to Geographic Information Systems	4

SURVEYING DRAFTING SPECIALIZATION ELECTIVES

Course	Title	Credits
ETD 1328C	Introduction to Microstation	4
* SUR 1101C	Basic Surveying and Measurements (Surveying I)	4
* SUR 2202C	Highway Drafting and Route Design	4
SUR 2390	Introduction to Geographic Information Systems	4
* SUR 2460	Subdivisions	3
* SUR 2640	Advanced Surveying Computations (Surveying III)	4
* SUR 2941	Internship Exploration in Surveying	1-4

NOTES:

All certificate courses are offered on the West Campus; some courses are offered at other locations.

Drafting - AutoCAD

Technical Certificate

This program is designed for a professional or entry-level individual in a technical area that requires computer-aided drafting skills. The content prepares the student to draw, dimension, and print technical drawings by computer.

FOUNDATION COURSES

Course	Title	Credits
ETD 1100C	Engineering Drawing	3
ETD 1320	Introduction to CADD	3
* ETD 1340	Advanced CADD	3
	Drafting Electives	6
	Total Certificate Credits	15

DRAFTING - AUTOCAD ELECTIVES

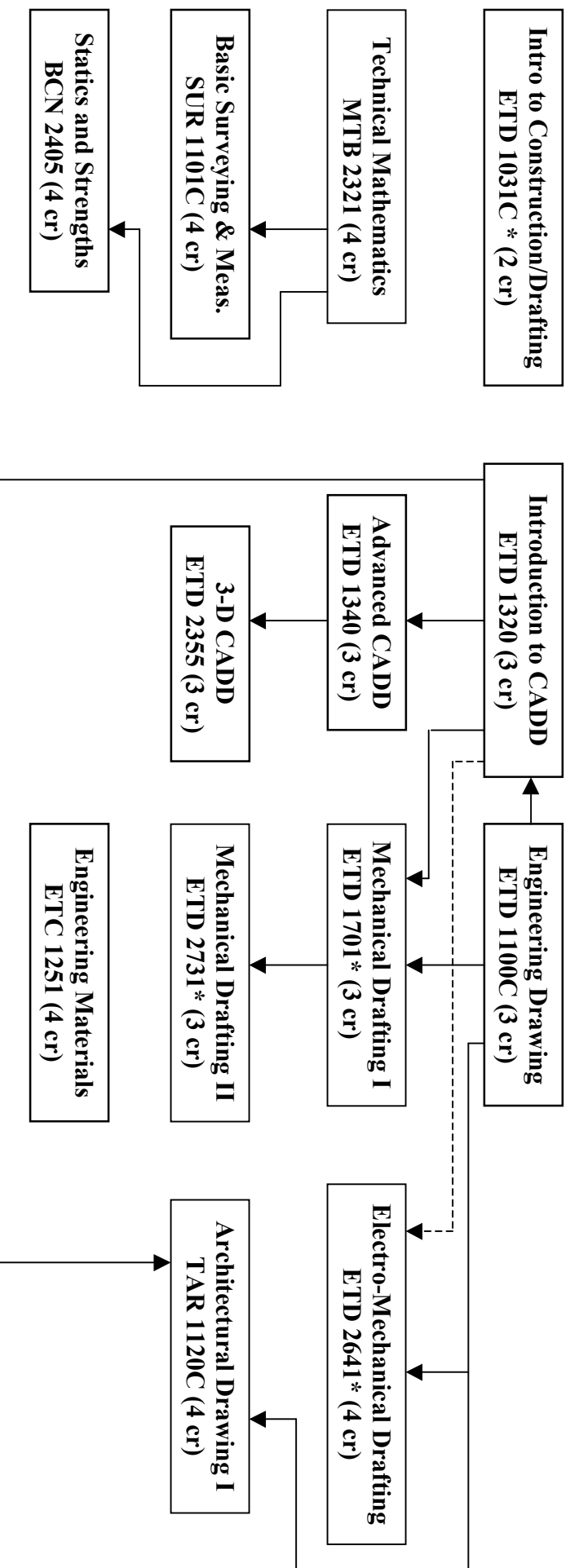
Course	Title	Credits
* ETD 1701	Mechanical Drafting I	3
* ETD 2332	Customizing and Directories - CADD	3
* ETD 2355	3-D CADD	3
* ETD 2614	Electromechanical Drafting	4
* ETD 2731	Mechanical Drafting II	3
* ETD 2942	Internship in Drafting and Design Technology	1-4
MTB 2321	Technical Mathematics	4
* SUR 1101C	Basic Surveying and Measurements (Surveying I)	4
* SUR 2202C	Highway Drafting and Route Design	4
SUR 2390	Introduction to Geographic Information Systems	4
* TAR 1120C	Architectural Drawing I	4
* TAR 2033C	Architectural Design	3

NOTES:

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 + This course must be completed with a grade of C or better.
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Drafting and Design Technology Associate in Science Degree Flowchart of Technical Courses

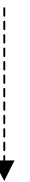


LEGEND:

Required Prerequisite



Recommended Sequence



* Courses not offered every session check with advisor.