



# BUILDING CONSTRUCTION TECHNOLOGY

*Associate in Science Degree (and related Certificate)*

GET ON THE RUNWAY TO A GREAT CAREER.

Have you heard? Recent data shows that nearly 1,000 people are relocating to Central Florida every week! Construction is one of the fastest-growing professional fields in the Central Florida area. Valencia's A.S. degree program in Building Construction Technology is designed to meet these vast construction demands by producing technicians qualified to work with the best architects, engineers, contractors, and building officials in the business. With up-to-the-minute courses in the latest construction methods, materials and technology, this field offers many exciting career opportunities such as: architectural drafting, estimating, planning and control (scheduling), design and installation of mechanical and electrical systems, solar applications, facilities planning, and heavy construction projects.

## 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.

- Building Construction Specialist (18 credits)

## Potential Careers

- Project Manager
- Construction Scheduler
- Construction Estimator
- Construction Manager
- General Contractor
- Architectural Drafter
- Construction Superintendent
- Building Inspector
- Building Supervisor
- Plans Reviewer

## Potential Earnings

\$25,000 - \$37,500 per year

## Contacts

### Perspective Students:

Contact Enrollment Services at [enrollment@valenciacc.edu](mailto:enrollment@valenciacc.edu) or call 407-582-1507.

### Current Students:

Mr. Andrew Ray, R.A <i>Program Director/Professor</i>	West Campus: 407-582-1847 e-mail: <a href="mailto:aray@valenciacc.edu">aray@valenciacc.edu</a>
Ms. Beverly Johnson <i>Career Program Advisor</i>	West Campus: 407-582-1890 e-mail: <a href="mailto:bjohnson@valenciacc.edu">bjohnson@valenciacc.edu</a>

For more information, visit our Website at: [valenciacc.edu/departments/west/engineering](http://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](http://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](http://valenciacc.edu/ipo)

# BUILDING CONSTRUCTION TECHNOLOGY

## Building Construction Technology

### Associate in Science Degree

The program has been planned to provide theoretical and classroom experience which closely parallels on-the-job activities. The Building Construction program is designed to train competent technicians capable of working with architects, engineers, contractors, building officials and others. The program will accommodate architectural drafting, construction estimators, schedulers, and supervisors, as well as persons just entering the field of construction.

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](http://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
ETD 1031C	Introduction to Construction/ Drafting Technology	2
ETD 1100C	Engineering Drawing	3
ETD 1320	Introduction to CADD	3
* TAR 1120C	Architectural Drawing I	4
MTB 2321	Technical Mathematics	4
+* ENC 1101	<b>Freshman Composition I</b>	3
	<b>Total Credits</b>	<b>19</b>

#### INTERMEDIATE COURSES

Course	Title	Credits
ETC 1251	Engineering Materials and Processes or	
ARC 2461	Materials and Methods of Construction	4
* BCN 2405	Statics and Strength of Materials	4
BCN 2563	Building Service Systems	3
* ETD 1340	Advanced CADD	3
BCT 1705	Contracts, Codes, Specifications and Office Practices	3

* SUR 1101C	Basic Surveying and Measurements (Surveying I)	4
	<b>Science or</b>	<b>+*</b>
	<b>Mathematics (See A.S. Gen Ed Requirement)</b>	<b>3</b>
	<b>Total Credits</b>	<b>24</b>

#### ADVANCED COURSES

Course	Title	Credits
* TAR 2033C	Architectural Design	3
* BCT 2770	Building Construction Estimating	4
BCN 1721	Construction Planning and Control Architectural/Building Construction Technology Elective	4 1
	<b>Humanities (See A.S. Gen Ed Requirement)</b>	<b>3</b>
	<b>Social Science (See A.S. Gen Ed Requirement)</b>	<b>3</b>
	<b>Gen Ed</b>	
	<b>Elective (See A.S. Gen Ed Requirement)</b>	<b>3</b>
	<b>Total Credits</b>	<b>21</b>
	<b>Total Degree Credits</b>	<b>64</b>

#### BUILDING CONSTRUCTION TECHNOLOGY ELECTIVES

The Elective requirement may be satisfied with any course in the Course Descriptions section of the Valencia Catalog with the subject prefix of ARC, 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.

# BUILDING CONSTRUCTION TECHNOLOGY

## Building Construction Specialist

### Technical Certificate

This certificate is designed to prepare individuals for entry-level positions working with architects, engineers, contractors, and building officials. It provides a working knowledge of estimating, scheduling, and interpreting commercial and residential blueprints. It also provides the foundation for individuals pursuing a career in building inspection and quality control.

Course	Title	Credits
MTB 2321	Technical Mathematics	4
ETC 1251	Engineering Materials and Processes	
	or	
ARC 2461	Materials and Methods of Construction	4
* BCT 2770	Building Construction Estimating	4
BCN 1721	Construction Planning and Control	4
	Building Construction Elective(s)	2
	<b>Total Certificate Credits</b>	<b>18</b>

### BUILDING CONSTRUCTION ELECTIVES

Course	Title	Credits
BCN 1272	Construction Blueprint Reading	3
BCN 2563	Building Service Systems	3
* BCN 2941	Internship Exploration in Construction	
	or	
* BCN 2942	Internship in Architectural/Building Construction	1-4
BCT 1705	Contracts, Codes, Specifications, and Office Practices	3
SUR 1101C	Basic Surveying and Measurements (Surveying I)	4

### NOTE:

All certificate courses are offered on the West Campus.

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.

