

## 2007-08 Catalog: Programs of Study

### Architectural Design and Construction Technology (2202)

#### Associate in Science

The Architectural Design and Construction Technology program prepares students for entry-level positions as architectural drafters or assistants. Typical places of employment are architectural or engineering firms and construction contractors.

Three technical certificates are included as options within this degree program, **AutoCAD Foundations**, **Drafting**, and **GIS (Geographic Information System) Technician**. Students may choose to pursue and A.S. degree and earn technical certificates while completing the requirements for the degree, or pursue one or more certificate programs to develop or upgrade their skills in a particular field. Contact and advisor or counselor to determine the career education that is best for you.

Students can specialize by taking classes from one of the following tracks: Drafting and Design, Architectural, Civil, or GIS.

#### Cost

Estimated cost of tuition is \$4,383 (tuition rated for Florida residents, as of 7/07). Contact program manager about additional costs (textbooks, fees and materials).

#### Need More Information? Contact:

**Betty Sasser**, Advisor, Downtown Campus, 904.633.8454

**Umu Graham**, Downtown Campus, 904.633.8295

Or call 904.361.6353

#### Curriculum

Course Number and Title	Credits
<b>General Education</b>	
<b>ENC 1101</b> English Composition I	3
<b>MAC 1105</b> College Algebra	3
<b>or MAC 1140</b> Precalculus Algebra (4 cr.)	
<b>MAC 1114</b> College Trigonometry	3
*Humanities	3
<b>INP 1390</b> Human Relations in Business and Industry	3
<b>PHY 1020C</b> Physics for Liberal Arts with Laboratory	3
<b>or PHY 2053C</b> General Physics I	
<b>Credit Hours</b>	<b>18</b>
<b>Required Professional Courses</b>	
<b>BCN 1251</b> Construction Drawing	3
<b>ETD 1100</b> Engineering Drawing	3
<b>CGS 2470</b> Computer Aided Drafting and Design	3
<b>BCN 1210</b> Construction Materials	3
<b>BCN 1210L</b> Construction Materials Lab	1
<b>ENC 2210</b> Technical Report Writing	3
<b>BCN 2280</b> Surveying: Construction Layout	3
<b>BCN 2405</b> Introduction to Structures	3
<b>ETD 2542</b> Structural Drafting	3
** <b>TAR 1942</b> Internship	2
<b>BCN 2793</b> Managing Building Construction	3

**Credit Hours** **30**

**Professional Electives (minimum 18 credit hours)**

<b>ETD 2350</b>	CAD-Advanced	3
<b>ETD 2538</b>	CAD-Architectural	3
<b>ETD 2536</b>	CAD-Mechanical	3
<b>ETD 2548</b>	CAD-Civil	3
<b>BCN 2563</b>	Electrical Systems	3
<b>BCN 2226</b>	Soils and Foundations	3
<b>BCN 2721</b>	Construction Scheduling	3
<b>BCN 2732</b>	OSHA Safety	3
<b>BCN 2614</b>	Planning and Estimating	3
<b>CGS 1100</b>	Microcomputer Applications	3
<b>CGS 2542</b>	Database Concepts for Microcomputers	3
<b>GEO 2200</b>	Physical Geography	3
<b>GEO 2370</b>	Cultural Geography	3
<b>GIS 2040</b>	Fundamentals of Geographic Information Systems	3
<b>GIS 2045</b>	Intermediate Geographic Information Systems	3
<b>GIS 2046</b>	Advanced Geographic Information Systems	3
	<b>Credit Hours</b>	<b>18</b>

**Total Credit Hours: 66**

The following are suggested tracks to be used for advising purposes only:

**Drafting and Design Track**

<b>BCN 1251</b>	Construction Drawing	3
<b>BCN 2405</b>	Introduction to Structures	3
<b>ETD 2350</b>	CAD-Advanced	3
<b>ETD 2538</b>	CAD-Architectural	3
<b>ETD 2536</b>	CAD-Mechanical	3
<b>ETD 2548</b>	CAD-Civil	3
<b>BCN 2614</b>	Planning and Estimating	3

**Architectural Track**

<b>BCN 2760</b>	Construction Design and Codes	3
<b>BCN 1251</b>	Construction Drawing	3
<b>BCN 2405</b>	Introduction to Structures	3
<b>ETD 2538</b>	CAD — Architectural	3
<b>BCN 2226</b>	Soils and Foundations	3
<b>BCN 2614</b>	Planning and Estimating	3
<b>BCN 1210</b>	Construction Materials	3
<b>BCN 1210L</b>	Construction Materials Lab	1

**Civil Track**

<b>BCN 2760</b>	Construction Design and Codes	3
<b>BCN 2405</b>	Introduction to Structures	3
<b>BCN 2793</b>	Managing Building Construction	3

<b>ETD 2548</b>	CAD — Civil	3
<b>BCN 2226</b>	Soils and Foundations	3
<b>BCN 1210</b>	Construction Materials	3
<b>BCN 1210L</b>	Construction Materials Lab	1
<b>BCN 2721</b>	Construction Scheduling	3

#### **GIS Track**

<b>CGS 1100</b>	Microcomputer Applications for Business and Economics	3
<b>GEO 2200</b>	Physical Geography	3
<b>or GEO 2370</b>	Cultural Geography	
<b>ETD 1100</b>	Engineering Drawing	3
<b>GIS 2040</b>	Fundamentals of Geographic Information Systems	3
<b>GIS 2045</b>	Intermediate Geographic Information Systems	3
<b>GIS 2046</b>	Advanced Geographic Information Systems	3
<b>CGS 2542</b>	Database Concepts for Microcomputers	3

\*Refer to A.S. degree **General Education Requirements**.

\*\*All other program courses should be completed prior to registering for the internship.

#### **Note**

This associate in science degree program is intended primarily for students who desire to complete an associate in science degree and become employed. Students who decide to pursue university transfer study must meet certain course and test requirements. For details refer to **the university transfer guide**.

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Revised February 25, 2008