



Architectural Design & Construction Technology

General Information

Northwest Florida State College offers an Associate of Applied Science degree in **Architectural Design and Construction Technology**. Students may pursue an emphasis in **Architectural Design/Computer Aided Drafting (CAD)** or **Building Construction**. The Architectural Design and Construction Technology degree prepares students for employment in various areas of the construction industry. The program emphasizes Computer Aided Drafting and Design (CAD) using the AutoCAD program and Microstation. CAD is one of the highest demand and highest paying areas of drafting studies. The core curriculum includes content in technical drawing, engineering graphics, building construction materials and processes, blueprint reading, construction estimating, and architectural drafting.

Accreditation

Northwest Florida State College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate and associate degrees, certificates and diplomas. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Northwest Florida State College.

What is Architectural Design and Construction Technology?

The Architectural Design portion of the program prepares students to be Architectural Drafters. Students learn how to draw and properly develop a set of working drawings of architectural and structural frames for buildings and other structures. Program emphasis is on residential design and light commercial structures and the use of details, rough sketches, and specifications, building codes, materials used in construction, surveying, cost estimating, and the use of the latest AutoCAD software for all drawings.

Individuals in this career field perform duties such as researching building codes and by-laws to create drawings and develop prints with computer programs, creating 2D and 3D models of designs and checking the feasibility of the suggested materials and shapes. Job titles for an individual working in Architectural Design may include Architectural Drafter, Facilities Drafter, Residential Drafter, HVAC Drafter, Interior Drafter, CAD Technician, Highway Drafter, Mapping Drafter, Plumbing Drafter, Structural Drafter, Architectural Drafter, and Civil Drafter. Typical places of employment are architectural or engineering firms, construction contractors, and government agencies.

Those who work in Construction Technology have job titles such as Estimator, Inspector, Site Supervisor, Cost Estimator, and Construction Supervisor. Individuals in this field work in architectural, engineering and construction firms that design and build facilities to include remodeling, framing, dry walling, roofing, concrete finishing, site work, finishing, and HVAC installation. Individuals in this career spend time on-site with building projects and preparing cost estimates, as well as helping with project management. Career opportunities are in building construction, highway construction, and industrial construction.

Over for more info>



**NORTHWEST FLORIDA
STATE COLLEGE**

www.nwfsc.edu

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Advanced Technology & Design

An Equal Access/Equal Opportunity Institution

Plan now to begin Architectural Design & Construction Technology

New students may be admitted at any time during the year.

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or Raymond Rickman,
Chairman of

Advanced Technology & Design,
at (850) 729-5218 or
rickmanr@nwfsc.edu

www.nwfsc.edu

See the NWF State College website for an application for admission.

Classes begin in January, May & August

To begin the program:

- ❖ Students in this degree program must have a High School diploma or GED high school equivalent diploma.
- ❖ Submit NWF State College Admission and residency forms to NWF State College.
- ❖ Request official transcripts from high school, GED or any post-secondary institution attended.

When are classes taught?

Coursework is offered in a variety of formats including day, evening, weekend, and distance learning courses to accommodate working students. Classes are offered at the NWF State College Niceville campus in specialized classrooms equipped for design instruction.



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What is the job outlook and salary range?

The demand for individuals with a degree in Architectural Design/Drafting varies by geographic region, depending on the needs of local industry. Local career opportunities may include positions with companies such as Kendricks, David Dowling Architects, Prescott Architects, DOWCO One of Florida, Design Build Systems Inc., SURVICE Engineering, Regional Engineering, Freeport Steel and Framing, Continental Pacific, Destin Architectural Group and more. Salaries for drafters with an associate degree vary by specialty and level of responsibility. Median annual earnings of architectural and civil drafters are approximately \$41,960. The middle 50 percent earn between \$33,550 and \$52,220. The lowest 10 percent earned less than \$27,010, and the highest 10 percent earn more than \$63,310. Median annual earnings for architectural and civil drafters in architectural, engineering, and related services are approximately \$44,120.

Demand for the Construction specialization also varies by region and the needs of local industry. Earnings for construction personnel with an associate degree vary by specialty and level of responsibility. Individuals working for local governments can expect to earn around \$46,040. Those working for state government earn approximately \$43,680 and those working for architectural, engineering, construction and related services can expect to earn around \$46,850.

What is the cost of the program?

Northwest Florida State College fees are the lowest in Florida of any state college or university. A special in-state fee is available at NWF State College for Alabama residents. Vocational credit courses carry lower fees. Expenses such as textbooks and materials are additional. See www.nwfsc.edu for current fees.

Is Financial Aid available?

The mission of NWF State College is to serve everyone who can benefit from a college education. NWF State College offers an extensive financial aid program. More than \$13 million in financial assistance is awarded to NWF State College students annually through federal, state, and local grants, college work-study, loans and scholarships. For detailed information on financial aid and a complete list of available scholarships, refer to the NWF State College catalog, the NWF State College Financial Aid Office or visit the Financial Aid website at www.nwfsc.edu/financialaid. Local scholarships are available through the NWFSC Foundation. For more information call 729-5370.

I've taken courses at another college, will any count toward this program?

Have your transcripts of work completed at any regional accredited college sent to NWF State College's Registrar's Office. Appropriate college staff will evaluate any previous courses you have taken and you will be notified if any may be applied to the Architectural Design and Construction technology program.

Over for more info>

What classes meet program requirements?

Associate of Applied Science in Architectural Design & Construction Technology

Core Courses	Credit Hours
ETD 1102 Introduction to Technical Drawing.....	3
ETD 1320C Auto CAD I.....	3
ETD 1340C Auto CAD II.....	3
EGS 1110C Engineering Graphics	3
BCN 1230 Building Construction Materials & Processes.....	3
BCN 1272 Blueprint Reading for Commercial Construction.....	3
TAR 2121C Architectural Drafting.....	3
ARC 2303A Design 2.1.....	6

Architectural Design/CAD Option

With the approval of an advisor, select 21 credits from the following:

Core Courses	Credit Hours
BCN 2231 Building Construction Materials & Processes II.....	3
ARC 2201 Theory of Architecture.....	3
ARC 2304 Design 2.2.....	6
BCN 2721 Construction Management/Planning.....	3
BCT 2770 Construction Estimating.....	3
EGS 1130C Descriptive Geometry.....	3
ETD 2350C AutoCAD III.....	3
ETD 1355C AutoCAD 3D Modeling I.....	3
ETD 2360C AutoCAD 3D Modeling II.....	3
ETD 2395C Architectural Desktop for Architecture I.....	3
ETD 2542 Structural Drafting I.....	3
ETD 2543C Structural Drafting II.....	3
ETD 2377 3D Studio Max I.....	3
SUR 2100C Surveying I.....	3
SUR 2140C Surveying II.....	3
ARC 1131 Architectural Presentations.....	3
----- Any Approved College Credit Course(s) -----	___

Building Construction Option

Core Courses	Credit Hours
BCN 2231 Building Construction Materials & Processes II.....	3
BCN 2721 Construction Management/Planning.....	3
BCN 2560 Mechanical Systems in Construction.....	3
BCN 1520 Electrical Systems in Construction.....	3
BCN 1567 Plumbing and Gas Construction Practices.....	3
BCN 1763 Construction Safety and Health.....	3
BCT 2761 Structural Systems in Construction.....	3
BUL 2241 Business Law I.....	3
ETD 2542 Structural Drafting I.....	3
ETD 2543C Structural Drafting II.....	3
SUR 2100C Surveying I.....	3
SUR 2140C Surveying II.....	3

Gainful Employment Information

- **U.S. Department of Labor's Standard Occupational Classification (SOC) Code:** 17-3011
- **Link(s) to Occupational Profile(s) on U.S. Department of Labor's O*NET:**
<http://www.onetonline.org/link/summary/17-3011.00>,
<http://www.onetonline.org/link/summary/17-3011.01>,
<http://www.onetonline.org/link/summary/17-3011.02>
- **On-time Graduation Rate¹:**
- **Tuition and Fees for Entire Program:**
- **Typical Costs for Books and Supplies for Entire Program:**
- **Job Placement Rate²:** TBD
- **Median Loan Debt Incurred (completers):** \$0.00

¹Source: NEXUS Student Information System

²Source: Florida Education and Training Placement Information Program (FETPIP)