

# DRAFTING & DESIGN TECHNOLOGY

Available: Shoals Campus  
 Advisors: A. Rice, M. Hubka

Drafting and Design are essential components of the manufacturing and construction industry, providing the graphical plan for production or construction of most everything manufactured and assembled. The contemporary drafter, because of current technological advancements, has become more than just an individual drawing with pencil and paper. He or she must be a highly-skilled Design Technician with the ability to visualize objects three-dimensionally before they are physically created.

Drafting and Design instruction at Northwest-Shoals Community College is offered in fundamental, intermediate, and the previously indicated advanced levels of drafting and design. Our advanced courses train students for the development of drawings in mechanical, architectural, structural, and civil/surveying and mapping. In addition to these topics each student must complete a course in "work ethics". This course prepares our students for job hunting, the interview process, and the development of workplace ethics. Related studies in mathematics, English, physics, and psychology prepare the student to excel academically.

A graduate of the program will receive an Associate in Applied Science Degree in Drafting and Design Technology and should be qualified to enter the industry as an entry level draftsman, detailer, or apprentice designer. Graduates are also encouraged to continue their education toward a professional degree in Engineering or Architecture. A general certificate in Computer Aided Design and Drafting is also available for industry personnel with a minimum of one year experience in manual drafting, design, or engineering.

At Northwest-Shoals we take pride in utilizing the most advanced technology available. You will train in smart classrooms. These classrooms contain the latest computers and software. Lecture and laboratory sessions are presented by highly-qualified, experienced instructors using Smartboard technology and advanced projection systems. All in all, this allows us to deliver the highest quality Drafting and Design instruction in the southeastern United States.

## PROGRAM OF STUDY

First Semester	Credit Hours
DDT 103 Introduction CAD .....	3
DDT 111 Fundamentals of Drafting .....	3
DDT 112 Introduction Technical Drawing .....	3
ENG 101 English Composition I .....	3
ORI 101 Orientation .....	1
<b>Total .....</b>	<b>13</b>

Second Semester	
DDT 121 Intermediate Technical Drawing .....	3
DDT 123 Intermediate CAD .....	3
DDT 134 Descriptive Geometry .....	3
ENG 130 Technical Report Writing .....	3
MTH 103 Introduction to Technical Math .....	3
<b>Total .....</b>	<b>15</b>

Third Semester	
DDT 117 Manufacturing Processes .....	3
DDT 122 Advanced Technical Drawing .....	3
DDT 132 Architectural Drafting .....	3
DDT 231 Advanced CAD .....	3
MTH 118 Technical Mathematics .....	3
<b>Total .....</b>	<b>15</b>

Fourth Semester	
DDT 131 Machine Drafting Basics .....	3
DDT 181 Special Topics (Work Ethics) .....	3
DDT 233 Solids Modeling .....	3
Drafting and Design Elective .....	3
PHY 115 Technical Physics .....	4
<b>Total .....</b>	<b>16</b>

Fifth Semester	
DDT 211 Intermediate Machine Drafting .....	3
DDT 261 Static, Strength & Testing of Materials ...	4
Drafting and Design Elective .....	3
PSY 200 General Psychology .....	3
Humanities and Fine Arts Elective .....	3
<b>Total .....</b>	<b>16</b>

**Total Semester Credit Hours ..... 75**

**See the catalog and advisor for current and complete program requirements and costs.**

## COMPUTER AIDED DRAFTING AND DESIGN TECHNOLOGY

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This program is open to drafting and design industry personnel with a minimum of one year experience in manual drafting, design, or engineering. The program provides upgrade training in the use of computer aided drafting and design (CADD) technology.

DDT 103 Introduction to CAD .....	3
DDT 124 Intermediate CAD .....	3
DDT 231 Advanced CAD .....	3
Drafting and Design Elective .....	3
<b>Total Semester Credit Hours .....</b>	<b>12</b>

NOTE: One Drafting elective totaling 3 semester hours is required. Students should consult with their advisor concerning other possible electives from other program areas.



## Financial Aid

The cost of college is an investment in your future. Help to pay for this cost is available at Northwest-Shoals. You may be eligible for a variety of financial aid programs including scholarships, loans, grants, student employment, or the HOPE tuition tax credit. The Financial Aid Office on both our Phil Campbell and Shoals campuses can help you. It is important to apply early for financial assistance. You can contact the Northwest-Shoals Financial Aid Office at 331-5364 for the Shoals Campus and 331-6232 for the Phil Campbell Campus. The following is a list of financial aid programs available for our students:

- Federal Pell Grants
- Federal Supplemental Education Opportunity Grants (SEOG)
- Federal Work Study
- Federal Stafford Loans
- Federal Parent Loan for Students
- Vocational Rehabilitation Programs
- Veterans Programs
- Alabama G.I.
- (WIA) Workforce Investment Act
- TRA (Trade Adjustment Act)
- Cooperative Education
- State Student Incentive Grant
- High School Academic Scholarships
- Applied Technology Scholarships
- Currently Enrolled Academic Scholarships
- College Foundation Scholarships
- Athletic Scholarships
- Student Leadership Scholarships
- Choices for Success Scholarships
- GED Graduate Scholarships
- College Bowl Team Scholarships
- Performing Arts Scholarships
- Disadvantaged Nursing Program Scholarships
- Art Scholarships
- Senior Citizen Scholarships
- HOPE Scholarship (up to \$1,500 tax credit)
- Alabama Works Technology Scholarships
- National Science Foundation Scholarships



## DRAFTING & DESIGN TECHNOLOGY

Associate in Applied Science Degree

## COMPUTER AIDED DRAFTING AND DESIGN TECHNOLOGY

Short-Term General Certificate