

## ARCT 102 ARCHITECTURAL DRAFTING II 5 Credits

### Course Description

This course is a continuation of residential construction. Students will draw a complete set of working drawings for a two-story house. Stair sections, framing plans, truss construction, and study of kitchen layouts and elevations are included. (Prerequisites: CAD120, ARCT 101)

### Course Focus

The focus of this course is to increase the student's knowledge of residential drawing and construction techniques. All drawings are done using AutoCAD software.

### Text and References

#### REQUIRED:

***Architectural Drafting and Design***, 6th Edition  
Alan Jefferis; David A Madsen; David P. Madsen  
ISBN-10: 1-4354-8162-3  
ISBN-13: 978-1-4354-8162-6

In the spirit of reducing costs ... the previous edition of this text will generally work - but pages listed will not match so you will need to "hunt" a bit more for the information.

#### ***Fundamentals of Dwelling Construction***

2006 International Residential Code

You can purchase this book at the NDSCS bookstore at [www.ndscsbookstore.com](http://www.ndscsbookstore.com) or you can purchase it online.

#### OPTIONAL

***Architectural Graphic Standards Student Edition: An Abridgement of the 9th Edition*** by Charles George Ramsey (Editor), et al; paperback edition

Sweets Catalog Online <http://sweets.construction.com/>

Contact Coleen at the NDSCS Bookstore for the most current textbook information (1-800-342-4325, ext. 2239 or [coleen.thoe@ndscs.edu](mailto:coleen.thoe@ndscs.edu). You may also visit the NDSCS Bookstore web site at [www.ndscsbookstore.com](http://www.ndscsbookstore.com) and search for book information by class by clicking the "Textbook" tab.

### Course Goals

The following list of course goals will be addressed in the course.

1. Kitchen Design and Drafting
  - identify styles of kitchens
  - utilized cabinet brochures

- analyze kitchen traffic flow
- determine kitchen workspace requirements
- select kitchen appliances
- design, draw and detail kitchen cabinet layout

## 2. Stair Design and Drafting

- know the different styles of stairs
- understand the codes regarding stairways
- calculate the total rise for a stair
- determine the total run for a stair
- calculate the unit rise and unit run
- calculate the stairwell size of a straight stair
- layout, draw and detail a stairway for a specific location

3. understand the similarities and differences between 1 and 2 story residential structures

4. make design modifications to a given preliminary 2 story residential structure

5. draw and detail a 2 story residential structure (approximately 10-13 sheets)

6. manage design and drafting time appropriately

7. display regular "attendance"

## Student Contributions

Each student will spend at least 5 hours per week preparing for class. Attendance is critical in this class. An online student who does not regularly attend their online class for a period of seven consecutive days may be dropped from the course. Attendance is evidenced by weekly completion of assignments and/or participation in online discussions. Efforts to contact inactive students are attempted as soon as each semester begins; however, if there is no response from the student and inactivity continues, a drop will be enacted. See the entire NDSCS Attendance Policy at [www.ndscs.edu/online-attendance](http://www.ndscs.edu/online-attendance).

## Course Evaluation

Your performance in this class will be based on the quality of your drawings. Drawings that do not meet the deadlines given by the instructor will be reduced. Grades will be based on the following:

A=90%

B=80%

C=70%

D=60%

## Student/Instructor Communication

There are several areas inside the course area that you can post a message -- keep in mind that these posted comments are visible to everyone enrolled in the class. Many times, this is appropriate and exactly what you WANT ... at other times you may have comments or questions that you want to be more private. At these times please contact your instructor by email or by phone.

When posting a question inside the course - please know that your instructor will answer the questions within 48 hours, and will make every attempt to answer within 24 hours. The exact time required will depend on the time the question was posted and the day of the week in which it was posted.

### **Disabilities and Special Needs**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the **Student Accessibility Coordinator** (phone 671-2623, or toll-free 1-800-342-4325 ext. 3-2623) as early as possible in the term.

### **Access Policy**

Online students must maintain computer access at all times to the online course. Lack of computer access as an excuse for late work or missed exam/quiz will NOT be accepted. Review the [Computer Access Policy](#) Access Policy to learn how you can take a proactive approach to your online success.