

ARCT 202 Architectural Drafting IV 4 Credits

Course Description

This course includes an extensive introduction to Pre-Engineered Metal Buildings and a more in-depth coverage to Light Commercial Conventional Buildings.

Prerequisite:

ARCT 201

Course Objectives

Upon successful completion of this course, the student will be able to:

1. Draw Anchor Bolt Plan
2. Draw Anchor Bolt Details
3. Draw Foundation Plan
4. Draw Typical Metal Building Section
5. Draw Metal Building Elevation Section
6. Draw Metal Building Footing Details
7. Draw Metal Building Foundation Details
8. Draw Metal Building Wall Details
9. Draw Metal Building Roof Details
10. Draw Metal Building Cover Sheet
11. Design Commercial Building Floor Plan
12. Draw Commercial Building Floor Plan
13. Layout & draw Commercial Building Foundation Plan
14. Draw Commercial Building Footing Details
15. Draw Commercial Building Foundation Details
16. Calculate building loads
17. Design Roof Beam Layouts
18. Design Roof Joists Layouts
19. Draw Commercial Building Roof Detail
20. Draw Commercial Building Elevations
21. Draw Ceiling to Partition Details
22. Draw Floor to Partition Details
23. Draw Partition Intersection Details
24. Draw Door Schedule
25. Draw Room Schedule
26. Draw Floor Framing Plan
27. Draw 3D Perspective of Commercial Building
28. Layout & draw Cover Sheet
29. Landscape & shade Perspective View

Course Materials

There is no textbook required for this class.

The following list of items or materials may be helpful to use as a reference in the course:

Sample drawings

International Building Code 2006 or 2009

Sweets Catalog Online

Revit online resources, Revit HELP and Revit City.

Course Policies and Procedures

Access Policy: Computer Failures and Viruses

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](#) to learn how you can take a proactive approach to your online success.

Student Attendance

Regular attendance and completion of all assignments, on time and as scheduled, is important to your success in this course. 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.

If your instructor is unexpectedly unavailable and may be delayed in reviewing or correcting assignments, you will be notified of this as a sign of courtesy and respect.

Student-Instructor Communications

While an online class is available 24 hours a day and offers greater flexibility for the student and instructor, keep in mind that your instructor will not be available 24 hours a day. Instructors will check email, voicemail, and Cyber Office messages on a regular basis, but there may be times when they are unavailable due to other commitments and job responsibilities. Email, voicemail, or Cyber Office Messages will be responded to as time allows. As a general rule, you can expect your direct questions to be answered within 24 hours during week days.

When sending an email, please include your full name so your instructor knows who they are responding to. Often, the email address does not indicate who is sending the message.

Student E-Mail Accounts

NDSCS students are to use an NDSCS email account exclusively to ensure the lines of communication with your instructor and NDSCS are not broken, which often happens with other email providers. You can access your email account by following instructions at www.ndscs.edu/lt-Setup. If you need help accessing your NDSCS email, contact the NDSCS IT Service Desk at 800-342-4325 ext 3333 or ndscs.servicedesk@ndscs.edu.

To make your NDSCS email account your preferred email address, log into your CampusConnection account and check the “preferred” box by campus email.

The NDSCS e-mail system provides students with an entire suite of services such as:

- 10 GB storage for email
- Instant messaging through Skype for Business
- Rich calendaring
- Photo sharing
- Multi-browser support
- SMS alerts to mobile phones

Academic Integrity

Integrity is an NDSCS core value and there is an expectation that all students, as members of the college community, adhere to the highest levels of academic integrity.

Dishonesty in class, laboratory, shop work or tests is regarded as a serious offense and is subject to disciplinary action by the instructor and dean of the respective division. For more information, refer to the NDSCS Student Planner or [College Catalog](#) under College Policies and Basic Regulations of Conduct (page 32).