South Central College

BDET 1210  Studio II

Course Outcome Summary

Course Information

Description  This course covers the materials, methods, and construction principles of a commercial project. Electronic drawing software and hand drawing will be utilized. Independent work, critical thinking, problem solving, and application are emphasized. A set of working drawings will be drawn incorporating construction documents. (Prerequisites: BDET 1110, BDET 1150)

Total Credits  4
Total Hours  96

Types of Instruction

Instruction Type  Credits/Hours
Lecture
On-Campus Lab

Pre/Corequisites

BDET 1110- Studio I
BDET 1150- Basic Autocad

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Demonstrate an understanding of commercial construction.
   Learning Objectives
   Define commercial construction.
   Identify floor plan styles used in commercial construction.
   Identify necessary components that make up a set of commercial construction drawings.

2. Demonstrate an understanding of materials and methods used in commercial construction.
   Learning Objectives
   Identify various construction components used in commercial construction.
3. **Develop and apply critical thinking and problem solving skills.**

Learning Objectives
- Make timely and sound decisions.
- Take responsibility for his/her decisions.
- Incorporate appropriate scales to drawings.

4. **Incorporate applicable sustainable materials to construction documents.**

Learning Objectives
- Incorporate building materials per sustainable criteria.
- Develop details per energy related criteria.
- Develop LEED compliant specifications.

5. **Demonstrate an understanding of space planning applications.**

Learning Objectives
- Develop bubble diagrams.
- Manage space using walls, partitions, ceilings, and room layout.
- Produce usable working drawings incorporating CAD.

6. **Research, access, and apply appropriate informational resources.**

Learning Objectives
- Research and utilize the Chapter 14-MN Accessibility Code.
- Research and utilize the ADA.
- Research and utilize Minnesota Energy Code.

7. **Demonstrate organizational skills.**

Learning Objectives
- Create a project specific job manual.
- Develop a coordinated set of construction drawings.
- Return assignment specific redlines.

8. **Implement of electronic software for commercial construction drawings.**

Learning Objectives
- Demonstrate an understanding of drawing technique.
- Utilize layer management skills.
- Produce accurate output for construction drawings.

9. **Incorporate time management skills.**

Learning Objectives
- Learn to prioritize assignments.
- Develop alternative study places free from distractions.
- Multi-task.

10. **Integrate professional communication techniques.**

Learning Objectives
- Ability to integrate various technologies.
- Proficient in computer skills & software.
- Understands the relationship of technology in communication.

11. **Demonstrate an understanding of office etiquette.**

Learning Objectives
- Use and maintain office equipment.
- Utilize the printers, plotters, etc.
- Maintain a professional demeanor.

12. **Demonstrate an appropriate office work ethic.**
Learning Objectives
Demonstrate acceptable participation and attendance.
Exhibit responsible decision making skills.
Demonstrate professional mannerisms.

SCC Accessibility Statement
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