

INTD 230

Space Planning and Codes

3 Credits

Community College of Baltimore County
Common Course Outline

Description

INTD 230 – Space Planning and Codes: focuses on program analysis and effective space planning to solve interior design and architectural problems. IRC (International Residential Code), IBC (International Building Code), ADA (Americans with Disabilities Act), NFPA (National Fire Protection Agency), and other building codes are applied to design solutions. This course examines building systems (plumbing, electrical, mechanical, HVAC, wall assemblies, glazing) as well as equipment, and furnishings. Apply architectural graphic standards and create construction documentation.

Pre-requisites: INTD 111, INTD 240 and CADD 101

Overall Course Objectives

Upon completion of this course, students will be able to:

1. contextualize the role of an interior designer;
2. analyze building conditions thoroughly and systematically;
3. create interior design concepts to meet client program needs and aesthetic considerations;
4. employ matrices and diagrams to analyze spaces;
5. construct bubble diagrams and block plans to establish effective spatial arrangements;
6. develop space plans to reflect human relationships to each other, to the space, and to the built environment;
7. generate sketches and orthographic drawings to communicate design concepts;
8. explain the history and purpose of building codes;
9. differentiate between codes and guidelines;
10. interpret codes for effective design solutions to ensure safety, health, and accessibility of occupants;
11. apply ergonomic principles and universal design best practices within design solutions;
12. develop effective visual presentations to communicate design concepts and design development for interior spaces; and
13. generate appropriate construction documentation to graphically communicate design solutions.

Major Topics

- I. Five phases of interior design
 - a. Programming phase

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- i. Site plan
 - ii. Evaluate existing conditions
 - iii. Client and end-user needs
 - iv. Criteria matrix
 - v. Bubble diagrams
 - vi. Block plans
 - b. Schematic design phase
 - i. Sketching concept ideas
 - ii. Space planning considerations
 - iii. Test fits
 - c. Design development phase
 - i. Three-dimensional considerations
 - ii. Specifications
 - iii. Schedules
 - d. Construction documentation phase
 - e. Contract administration phase
- II. Human factors affecting design
 - a. Personal space
 - b. Psychology of spaces
 - c. Private versus public space
 - d. Accessibility and universal design
 - e. Ergonomics
- III. Materials and FF&E considerations
 - a. Panel systems
 - b. Furniture systems
- IV. Building codes
 - a. History of building codes
 - b. Types of building codes (IRC, IBC, IECC, ADA, NFPA)
- V. Application of building codes
 - a. Building construction types
 - b. Occupancy type
 - c. Occupant load
 - d. Egress
 - e. Plumbing
 - f. Materials
- VI. Best practice guidelines (LEED, WELL Building, universal design, Living Building Challenge, Net Zero, Green Globes, NKBA, etc.)
- VII. Permit process
- VIII. Construction documentation
- IX. Client presentations

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Space planning exercises for a variety of commercial typologies
- Workplace design projects to include systems furniture to include:
 - Site plan

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- Building analysis
- Concept sketches
- Construction documents such as floor plans, reflected ceiling plans, elevations, detail drawings

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

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