

INTD 260

Studio: Kitchen & Bath

3 Credits

Community College of Baltimore County
Common Course Outline

Description

INTD 260 – Studio: Kitchen & Bath: Explores best practices for designing efficient kitchens and bathrooms to solve client problems and needs. This course covers the many components of kitchens and bathrooms, including cabinetry, appliances, plumbing, electrical and mechanical systems, lighting, finish materials, and effective layouts. Cabinet-design CAD (computer-aided design) tools are introduced.

Pre-requisites: INTD 240, CADD 101

Overall Course Objectives

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

1. describe National Kitchen and Bath Association (NKBA) guidelines for bathroom design;
2. identify guidelines NKBA guidelines for kitchen design;
3. utilize kitchen and bath vocabulary;
4. compare kitchen and bath codes versus guidelines and best practices;
5. explain standard cabinet construction, mechanics, features, sizes, and options;
6. employ computer-assisted design software and applications to design kitchens and bathrooms, to create client presentations, and to create construction documents;
7. apply American with Disabilities Act (ADA) and universal design principles to kitchen and bath design;
8. justify finish selections based on client needs and preferences, material characteristics, and product performance;
9. utilize building codes and NKBA guidelines to create an effective residential bathroom design solution;
10. apply codes and NKBA guidelines to create an effective residential kitchen design solution; and
11. generate appropriate construction documentation.

Major Topics

- I. History of kitchen and bath design
- II. Kitchen design trends
- III. Bathroom design trends
- IV. Building codes related to kitchen and bath design
 - a. International Building Code

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- b. International Residential Code
 - c. Plumbing codes, mechanical codes, electrical codes
 - d. Local building codes
 - e. American with Disabilities Act (ADA)
- V. National Kitchen and Bath Association (NKBA) bathroom guidelines
- VI. NKBA kitchen guidelines
- VII. NKBA guidelines for other spaces (laundry rooms, outdoor kitchens, saunas, exercise spaces, etc.)
- VIII. Millwork (Cabinetry)
 - a. Vocabulary
 - b. Cabinet construction
 - c. Types of cabinets
 - d. Standard cabinet sizing
 - e. Features and options
 - f. 2020 design software
- IX. Plumbing
 - a. Plumbing systems
 - b. Plumbing fixtures
 - c. Plumbing factors affecting K&B design
- X. Electrical systems
 - a. Electrical systems
 - b. Electrical codes
 - c. Lighting and switching
- XI. Mechanical systems
 - a. Ventilation and make-up air
 - b. HVAC factors affecting K&B design
- XII. Appliances
 - a. Cooking
 - b. Cooling and storage
 - c. Cleaning
 - d. Small and countertop
 - e. Smart appliances
- XIII. Technology (Internet of Things, audio-visual, personal device charging)
- XIV. Finish Materials
 - a. Flooring
 - b. Walls
 - c. Countertops
 - d. Glass
 - e. Sustainability of materials
- XV. NKBA construction documentation
- XVI. Client-focused design
 - a. Client needs and wants
 - b. ADA
 - c. Universal design
 - d. Special Populations
 - i. Children
 - ii. Aging
 - iii. Kosher

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

For more information, see your professor's syllabus.

- iv. Other (neurodiverse, visual impairment, auditory impairment)
- XVII. Kitchen and bath resources
 - a. NKBA
 - b. K&B and cabinet showrooms
 - c. Retail and online stores for tile, appliances, countertops, lighting, flooring, appliances,
 - d. Trade-only resources
 - e. Consultants (architects, builders, lighting designers, cabinet shop)

Course Requirements

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

- two exams or quizzes
- bathroom project with full NKBA documentation and tile plans
- kitchen project with full NKBA documentation and tile plans
- one of the kitchen or bath projects must address designing for a special-needs client

Other Course Information

This course is an elective for the AAS and certificate in Interior Design.

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

Date Revised: 2/3/2026

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.