Course Description
IND2220 | Interior Design 4 | 4.00 credits
Advanced problems involving interior arrangements in residential and commercial areas. Prerequisite: IND2210

Course Competencies:
Competency 1: The student will identify responses to the psychological, physical, and social needs of users using corporate office interiors by:
1. Identifying diverse theories about the relationship between human behavior and the designed environment (e.g., aesthetics, environmental, social, psychological, cultural, anthropometrics, etc.)
2. Creating a client profile and corporate identity
3. Applying theories of human behavior to interior design to specialized projected user requirements
4. Illustrating spatial adjacency, utilization, circulation, light, and function according to programmatic needs
5. Synthesizing concepts of space utilization through sketching and schematic drawings

Competency 2: The student will demonstrate proficiency in the knowledge and application of the programming principles by:
1. Conducting site analysis that involves reviewing architectural plans or documenting space (e.g., locating utilities, structural elements, etc.)
2. Applying space planning, furniture layouts, and human factors in corporate office design
3. Designing an initial design concept based on analysis and documentation findings
4. Identifying sustainable design objectives
5. Developing spatial relationship diagrams using design development graphic tools (bubble diagrams, adjacency matrices, charts, stacking/zoning diagrams, block /square footage allocations)

Competency 3: The student will incorporate evaluation, space planning, and layout into a corporate office design project by:
1. Developing multiple design solutions
2. Refining spatial relationship diagrams; adjacency, bubble, and block diagrams
3. Creating representative three-dimensional models and two-dimensional drawings of the design solution
4. Producing interior architectural and construction drawings using specialized software following industry drawing standards, methods, and conventions
5. Designing a comprehensive presentation describing the design solution, including sketches, diagrams, and architectural drawings and models
6. Conducting verbal presentations of their work

Competency 4: The student will learn to select appropriate furnishings and materials in corporate/office interiors by:
1. Analyzing criteria for the selection and arrangement of furnishings to be used by different users
2. Designing a detailed furniture arrangement plan
3. Revising design for code compliance
4. Specifying various ceiling treatments
5. Explaining the advantages and disadvantages of materials specified in design projects (e.g., furniture, flooring, wall coverings)
6. Specifying finishes and material treatments are used according to acoustics, life safety considerations, and performance properties

Competency 5: The student will incorporate appropriate codes and regulations in a corporate/office design project by:
1. Identifying code requirements affecting health, fire, safety, occupancy, and welfare in interior design solutions (universal/ accessible design)

2. Applying local, state, and national building codes and the UBC (Uniform Building Codes) to corporate office projects
3. Applying Americans with Disabilities Act (ADA) requirements for corporate office space design. Analyzing and applying life safety requirements related to design solutions

Competency 6: The student will demonstrate knowledge of building construction methods and systems in corporate office interiors by:
1. Identifying different methods and techniques of building construction (e.g., wood, steel, concrete)
2. Describing basic building systems (e.g., mechanical, electrical, plumbing, structural, and fire safety)
3. Analyzing typical materials and assemblies employed in constructing partitions, walls, and ceilings for corporate office applications
4. Identifying among different millwork woods and veneers used in corporate office applications
5. Designing specific millwork and architectural woodwork details for corporate office interiors
6. Describing the uses and characteristics of doors/windows treatments for energy and security considerations in corporate office applications

Competency 7: The student will demonstrate knowledge about the impact of lighting systems in interior design by:
1. Specifying lighting requirements in terms of specific purposes for which lighting is required
2. Describing how various means of controlling daylight influence corporate office interiors
3. Specifying appropriate lighting fixtures to perform efficiently and effectively in corporate office interior design projects
4. Describing the factors of contrast and diffusion as they affect corporate office interior space
5. Utilizing appropriate light distribution (ambient and task lighting) in corporate office interior design projects
6. Incorporating appropriate fixture placement and location in interior design projects using reflected ceiling plans
7. Describing the uses and characteristics of doors/windows treatments and coverings, glazing, and film for energy and security considerations in corporate office applications

Competency 8: The student will analyze the effects of sound on interior design by:
1. Identifying fundamentals of sound absorption to evaluate means that might be employed to control the acoustic quality of a space
2. Analyzing issues of sound transmission and methods to tailor interior materials and components to specific uses of a space, allowing for appropriate speech privacy or transmission
3. Determining the layout and surface treatment of walls, ceilings, finishes, and spatial organization to achieve effective sound balance and comfort in a corporate interior

Competency 9: The student will understand sustainable design practices by:
1. Identifying sustainable design practices as related to corporate office interiors
2. Analyzing the concept and terminology of green design/sustainable design
3. Identifying governing organizations associated with sustainable design as applied to corporate office interiors
4. Estimating the cost of green/sustainable design for a corporate office in contrast with other methods

<u>Learning Outcomes:</u>
- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of diverse cultures including global and historical perspectives
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities
- Describe how natural systems function and recognize the impact of humans on the environment