ID 2840 - DESIGN PROCESS + PLANNING

Credits: 3

This sophomore-level course introduces students to the design process as it relates to programming and spatial development. Emphasis is on programming methodology, problem solving strategies, and the role of space planning for residential and small commercial spaces within the context of the relationship between human beings and their environment. Upon successful completion of this course, students will have the ability to plan common residential and commercial spaces with considerations for physical and psychological factors, spatial relationships, functionality, safety, accessibility, and specific need.

Prerequisites: ID 1510 - Survey of Interior Design, ID 1511 - Publishing Application Lab and ID 1710 - Drafting

Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes	CIDA Standards
Understand theories related to the impact of the built environment on human experience, behavior, and performance.	Applies theories related to the impact of the built environment on human experience, behavior, and performance.	Understands theories related to the impact of the built environment on human experience, behavior, and performance.	Recalls theories related to the impact of the built environment on human experience, behavior, and performance.	Does not understand theories related to the impact of the built environment on human experience, behavior, and performance.	ID4 HUMAN-CENTERED DESIGN	Cultural Competence, Design Comptence, Critical Thinking	CIDA Standard 7. Human-Centered Design
Gather and apply human-centered evidence.	Applies human-centered evidence to designs.	Demonstrates the ability to gather and apply human-centered evidence.	Demonstrates the ability to gather and apply some human-centered evidence but research is not thorough nor critical.	Does not demonstrate the ability to gather and apply human-centered evidence.	ID4 HUMAN-CENTERED DESIGN	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 7. Human-Centered Design
Analyze and synthesize human perception and behavior patterns to inform design solutions.	Creates design solutions informed by human perception and behavior patterns.	Demonstrates the ability to analyze and synthesize human perception and behavior patterns to inform design solutions.	Explains human perception and behavior patterns to inform design solutions.	Does not demonstrate the ability to analyze and synthesize human perception and behavior patterns to inform design solutions.	ID4 HUMAN-CENTERED DESIGN	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 7. Human-Centered Design
Apply human factors, ergonomics, and universal design principles to design solutions.	Analyzes human factors, ergonomics, and universal design principles to design solutions.	Demonstrates the ability to apply human factors, ergonomics, and universal design principles to design solutions.	Recalls human factors, ergonomics, and universal design principles and recognizes them within design work.	Does not demonstrate the ability to apply human factors, ergonomics, and universal design principles to design solutions.	ID4 HUMAN-CENTERED DESIGN	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 7. Human-Centered Design
Apply space planning techniques throughout the design process.	Analyzes space planning techniques within the design process.	Applies space planning techniques throughout the design process.	Identifies space planning techniques within the design process.	Does not apply space planning techniques throughout the design process.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Apply knowledge and skills learned to solve progressively complex design problems.	Solves progressively complex design problems.	Synthesizes progressively complex design problems.	Analyzes progressively complex design problems.	Does not solve progressively complex design problems.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Apply knowledge and skills learned to identify and define issues relevant to the design problem.	Analyzes issues relevant to the design problem.	Identifies and defines issues relevant to the design problem.	Recalls issues relevant to the design problem.	Does not identify or define issues relevant to the design problem.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Apply knowledge and skills learned to design original and creative solutions.	Designs original and creative solutions with professional expertise and polish.	Designs original and creative solutions.	Designs with evidence of some originality and some creative solutions.	Does not design original and creative solutions.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Apply knowledge and skills learned to execute the design process: pre-design, quantitative and qualitative programming, schematic design, and design development.	Executes comprehensive and critical design processes: pre-design, quantitative and qualitative programming, schematic design, and design development.	Applies knowledge and skills learned to execute the design process: pre-design, quantitative and qualitative programming, schematic design, and design development.	Applies some knowledge and skills learned to execute some components of the design process: pre-design, quantitative and qualitative programming, schematic design, and design development.	Does not apply knowledge and skills learned to execute the design process: pre-design, quantitative and qualitative programming, schematic design, and design development.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Understand the importance of evaluating the relevance and reliability of information and research impacting design solutions.	Creates designs informed by relevant and reliable information and research.	Evaluates the relevance and reliability of information and research impacting design solutions.	Analyzes information and research impacting design solutions.	Does not understand the importance of evaluating the relevance and reliability of information and research impacting design solutions.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Recognize a range of problem identification and problem solving methods.	Applies a range of problem identification and problem solving methods.	Recognizes a range of problem identification and problem solving methods.	Recognizes some problem identification and problem solving methods.	Does not recognize a range of problem identification and problem solving methods.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Recognize innovation and risk taking.	Analyzes innovation and risk taking.	Applies innovation and risk taking.	Recognizes innovation and risk taking.	Does not apply innovation and risk taking.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Recognize methods of idea generation and design thinking.	Applies a range of methods of idea generation and design thinking.	Recognizes a range of methods of idea generation and design thinking.	Recognizes some methods of idea generation and design thinking.	Does not recognize methods of idea generation and design thinking.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process
Effectively interpret and communicate data and research.	Effectively interprets and communicates data and research with clarity and criticality.	Effectively interpret and communicate data and research.	Interprets and communicates data and research but without criticality or clarity.	Does not effectively interpret and communicate data and research.	ID6 COMMUNICATION	Communication Competence	CIDA Standard 9. Communication
Effectively express ideas and their rationale in oral communication.	Effectively expresses ideas and their rationale in oral communication and actively engages audience with the material and content.	Effectively expresses ideas and their rationale in oral communication.	Expresses ideas in oral communication but without fully explaining rationale and without clarity or detail.	Does not effectively express ideas and their rationale in oral communication.	ID6 COMMUNICATION	Communication Competence	CIDA Standard 9. Communication
Effectively express ideas and their rationale in written communication.	Effectively expresses ideas and their rationale in written communication and actively engages readers with the material and content.	Effectively expresses ideas and their rationale in written communication.	Expresses ideas in written communication but without fully explaining rationale and without clarity or detail.	Does not effectively express ideas and their rationale in written communication.	ID6 COMMUNICATION	Communication Competence	CIDA Standard 9. Communication
Effectively express ideas developed in the design process through visual media: ideation drawings and sketches.	Effectively expresses ideas developed in the design process through visual media (ideation drawings and sketches) and actively engages audience with the material and content.	Effectively expresses ideas developed in the design process through visual media: ideation drawings and sketches.	Expresses ideas developed in the design process through visual media but without clarity or detail.	Does not effectively express ideas developed in the design process through visual media: ideation drawings and sketches.	ID6 COMMUNICATION	Communication Competence	CIDA Standard 9. Communication
Effectively express project solutions using a variety of visual communication techniques and technologies appropriate to a range of purposes and audiences.	Effectively expresses project solutions using a variety of visual communication techniques and technologies appropriate to a range of purposes and audiences. These expressions demonstrate nuance, criticality, and engagement.	Effectively expresses project solutions using a variety of visual communication techniques and technologies appropriate to a range of purposes and audiences.	Expresses project solutions using some visual communication techniques and technologies although these are not always appropriate to a range of purposes and audiences.	Does not effectively express project solutions using a variety of visual communication techniques and technologies appropriate to a range of purposes and audiences.	ID6 COMMUNICATION	Communication Competence	CIDA Standard 9. Communication
Understand how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Evaluates how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Understands how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Recognizes that design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Does not understand how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	ID12 CONSTRUCTION	Design Competence	CIDA Standard 15. Construction
Recognize the origins and intent of laws, codes, and standards.	Analyzes the origins and intent of laws, codes, and standards.	Demonstrates an awareness of the origins and intent of laws, codes, and standards.	Recognizes some the origins and intent of laws, codes, and standards.	Does not demonstrate an awareness of the origins and intent of laws, codes, and standards.	ID13 REGULATIONS + GUIDELINES	Design Competence	CIDA Standard 16. Regulations and Guidelines