ID 2840 - DESIGN PROCESS + PLANNING

Credits: 3
This sophomore-level
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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
Preventing
Network Courses
Exceeding
Network CLDA Standards
CLDA Standards Course Learning Outcomes Understand theories related to the impact of the built environment on human experience, behavior, and performance. Jnderstands theories related to the impact of the built environment on human experience, behavior, and Not meeting Does not understand theories related to the impact of the built environment on human Developing Exceeding oplies theories related to impact of the built heories related 1 pact of the built ID4 HUMAN-CENTERED Cultural Competence, Design Comptence, Critical Thinking CIDA Standard 7. Humanenvironment on human experience, behavior, and environment on human experience, behavior, and DESIGN Centered Design experience, behavior, and performance. Demonstrates the ability to gather and apply some uman-centered evidence b performance. performance. performance. Demonstrates the ability to gather and apply human-centered evidence. Does not demonstrate the ability to gather and apply human-centered evidence Gather and apply human-centered evidence. Applies human-centered evidence to designs. ID4 HUMAN-CENTERED DESIGN Cultural Competence, Design Competence, Critical Thinking CIDA Standard 7. Human-Centered Design esearch is not thorough nor critical Demonstrates the ability to analyze and synthesize human perception and behavior patterns to inform design Does not demonstrate the ability to analyze and synthesize human perception and behavior patterns to Analyze and synthesize human perception and behavior patterns to inform design solutions. Creates design solutions informed by human perception and behavior patterns. Explains 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 and behavior patterns to inform design solutions. Does not demonstrate the solutions. Demonstrates the ability to Recalls human factors, Apply human factors, Analyzes human factors, apply human factors, ergonomics, and universal design principles to design ergonomics, and universa design principles and recognizes them within design work. bility to apply human factors ergonomics, and universal design principles to design CIDA Standard 7. Human-Centered Design ID4 HUMAN-CENTERED Cultural Competence, Design Competence, Critical Thinking ergonomics, and universal design principles to design solutions. ergonomics, and universal design principles to design solutions. solutions. Applies space planning techniques throughout the solutions. loes not apply space plannin techniques throughout the chniques within the design Analyzes space planning chniques within the design Apply space planning techniques throughout the Design Competence, Critical Thinking CIDA Standard 8. Design Process ID5 DESIGN PROCESS process. design process. design process. design process. Apply knowledge and skills Solves progressively complex design problems. Synthesizes progressively complex design problems. Analyzes progressively complex design problem Does not solve progressively complex design problems. Design Competence, Critical Thinking CIDA Standard 8. Design Process ed to solve progre ID5 DESIGN PROCESS complex design problems. Apply knowledge and skills learned to identify and define issues relevant to the design problem. Identifies and defines issues relevant to the design problem. Does not identify or define ssues relevant to the design problem. nalyzes issues relevant to the design problem. Recalls issues relevant to the design problem. Design Competence, Critical Thinking CIDA Standard 8. Design Process ID5 DESIGN PROCESS problem. Apply knowledge and skills Designs original and creative Designs with evidence of Designs original and creative CIDA Standard 8. Design Process Does not design original and creative solutions. Design Competence, Critical Thinking ID5 DESIGN PROCESS ed to design original and solutions with profe ional some originality and some creative solutions. plies some knowledge and lls learned to execute some components of the design creative solutions. expertise and polish. Applies knowledge and skills learned to execute the design process: pre-design, quantitative and qualitative programming, schematic design, and design development. Apply knowledge and skills learned to execute the desig process: pre-design, quantitative and qualitative oes not apply knowledge and skills learned to execute the design process: pre-design, quantitative and qualitative ecutes comprehensive and Executes comprehensive and critical design processes: pre-design, quantitative and qualitative programming, schematic design, and design development. process: pre-design, quantitative and qualitative Design Competence, Critical Thinking CIDA Standard 8. Design ID5 DESIGN PROCESS Process design, and design development. programming, schematic design, and design development. programming, schematic design, and design development. Understand the importance evaluating the relevance and reliability of information and Does not understand the nportance of evaluating the relevance and reliability of information and research Creates designs informed by relevant and reliable information and research. Evaluates the relevance and Analyzes information and research impacting design solutions. reliability of information and research impacting design solutions. Design Competence, Critical Thinking CIDA Standard 8. Design ID5 DESIGN PROCESS Proces research impacting design Recognizes some problem identification and problem solving methods. Recognizes innovation and risk taking. solutions. mpacting design solutions Impacting design solutions. Does not recognize a range of problem identification and problem solving methods. Does not apply innovation and risk taking. Does not recognize methods of Applies a range of problem identification and problem solving methods. Analyzes innovation and risk Recognizes a range of oblem identification and roblem solving methods. oplies innovation and risk Recognize a range of proble identification and problem Design Competence, Critical Thinking CIDA Standard 8. Design ID5 DESIGN PROCESS ng methods. Ingnize innovation and ri CIDA Standard 8. Desig Design Competence, Critica taking. Decognize methods of idea - A design ID5 DESIGN PROCESS taking. Applies a range of methods o idea generation and design Recognizes a range of methods of idea generation Thinking Process oes not recognize methods idea generation and design Design Competence, Critical Thinking CIDA Standard 8. Design Process idea generation and design ID5 DESIGN PROCESS thinking. Effectively interprets and communicates data and research with clarity and criticality. 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 written communication and actively and design thinking. thinking. thinking. thinking. thinking. Effectively interpret and communicate data and research. Effectively interpret and communicate data and research. nterprets and communicate ata and research but withou criticality or clarity. Does not effectively interpre-and communicate data and research. CIDA Standard 9. Communication ID6 COMMUNICATION Communication Competence Expresses ideas in oral Effectively express ideas and their rationale in oral communication. Does not effectively express leas and their rationale in ora communication. fectively expresses ideas and their rationale in oral communication. communication but withou ully explaining rationale an without clarity or detail. CIDA Standard 9. Communication ID6 COMMUNICATION Communication Competence Expresses ideas in written communication but without Effectively express ideas and their rationale in written ffectively expresses ideas and their rationale in written Does not effectively express ideas and their rationale in CIDA Standard 9. ommunication and actively ID6 COMMUNICATION Communication Competence ully explaining rationale and without clarity or detail. communication engages readers with the material and content. communication. written communication. material and content. 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 project solutions using a variety of visual communication techniques and technologie apororiate to a range of Does not effectively express ideas developed in the design process through visual media ideation drawings and sketches. Effectively express ideas developed in the design process through visual media ideation drawings and Effectively expresses ideas developed in the design process through visual media xpresses ideas developed in the design process through visual media but without clarity or detail. CIDA Standard 9 ID6 COMMUNICATION Communication Competence Communication ideation drawings and sketches. 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. 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. CIDA Standard 9. appropriate to a range of purposes and audiences. These expressions demonstrate nuance, ID6 COMMUNICATION Communication Competence ticality, and engageme Evaluates how design Does not understand how lesign solutions affect and are impacted by vertical and orizontal systems of transport and circulation such as stairs, elevators, or escalators. oanizes that desiar Evaluates how design solutions affect and are impacted by vertical and horizontal systems of insport and circulation suc as stairs, elevators, or Recognizes that design solutions affect and are impacted by vertical and horizontal systems of ansport and circulation su as stairs, elevators, or Understands how design solutions affect and are impacted by vertical and horizontal systems of ansport and circulation suc as stairs, elevators, or eccelator solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or ID12 CONSTRUCTION sign Competence Standard 15. Construc escalators escalators. escalators. escalators. Recognize the origins and intent of laws, codes, and standards Does not demonstrate ar Demonstrates an awareness of the origins and intent of laws, codes, and standards. Analyzes the origins and intent of laws, codes, and standards. Recognizes some the origins and intent of laws, codes, and standards. awareness of the origins and intent of laws, codes, and standards. ID13 REGULATIONS + GUIDELINES Design Competence CIDA Standard 16. Regulations