ID 1230 - INTRODUCTION TO SUSTAINABLE DESIGN

Credits: 3

This freshman-level course provides an overview of the core philosophical and practical principles of sustainable design and introduces students to sustainability as an environmental and social issue. Students explore the interrelated concepts, standards, materials, and systems of sustainable design through research analysis and apply that knowledge to inform the integrated decision-making process as it relates to ecological responsibility, the built environment, and human well-being. Upon successful completion of this course, students will have an understanding of sustainable design concepts, as well as their implications and approaches in preparation for future design courses and projects.

Prerequisites: none

Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes	CIDA Standards
Reconize current and relevant events that are shaping contemporary society and the world.	Analyzes how current and relevant events shape contemporary society and the world.	Recognizes current and relevant events that are shaping contemporary society and the world.	Recognizes some current and relevant events; however, does not explain how these are shaping contemporary society and the world.	Does not recognize current and relevant events that are shaping contemporary society and the world.	ID1 GLOBAL CONTEXT	Cultural Competence, Critical Thinking	CIDA Standard 4. Global Context
Define the breadth and depth of interior design's impact and value.	Applies the breadth and depth of interior design's impact and value.	Defines the breadth and depth of interior design's impact and value.	Recalls the breadth and depth of interior design's impact and value.	Does not define the breadth and depth of interior design's impact and value.	ID3 BUSINESS PRACTICES + PROFESSIONALISM	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 6. Business Practices and Professionaism
Understand professional ethics and conduct.	Applies professional ethics and conduct.	Understands professional ethics and conduct.	Recalls professional ethics and conduct.	Does not understand professional ethics and conduct.	ID3 BUSINESS PRACTICES + PROFESSIONALISM	Cultural Competence, Communication Competence, Design Competence	CIDA Standard 6. Business Practices and Professionaism
Engage with role models who are qualified by education and experience in interior design.	N/A	Engages with qualified role models who have advanced education and experience in interior design.	N/A	Does not engage with qualified role models who have advanced education and experience in interior design.	ID3 BUSINESS PRACTICES + PROFESSIONALISM	Communication Competence, Design Competence	CIDA Standard 6. Business Practices and Professionaism
Understand the relationship between the natural, built, virtual, and technological environments as they relate to the human experience, wellbeing, behavior, and performance.	Designs natural, built, virtual, and technological environments that relate to human experience, wellbeing, behavior, and performance.	Understands the relationship between the natural, built, virtual, and technological environments as they relate to the human experience, wellbeing, behavior, and performance.	Recalls the relationship between the natural, built, virtual, and technological environments as they relate to the human experience, wellbeing, behavior, and performance.	Does not understand the relationship between the natural, built, virtual, and technological environments as they relate to the human experience, wellbeing, behavior, and performance.	ID4 HUMAN-CENTERED DESIGN	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 7. Human-Centered Design
Apply knowledge and skills learned to explore and iterate multiple ideas.	Explores and iterates multiple ideas with criticality and nuance.	Explores and iterates multiple ideas.	Explores and iterates some ideas.	Does not explore or iterate multiple ideas.	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
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 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 the social, political and physical influences affecting historical changes in design of th built environment.	Analyzes the basic context and framework of history as it relates to interior design.	Understands the basic context and framework of history as it relates to interior design.	Recognizes the basic context and framework of history as it relates to interior design.	Does not understand the basic context and framework of history as it relates to interior design.	ID7 HISTORY + THEORY	Cultural Competence, Design Competence, Critical Thinking	CIDA Standard 10. History and Theory
Effectively apply the elements and principles of design and related theories throughout the interior design curriculum to two-dimensional design solutions.	Analyze the elements and principles of design and related theories throughout the interior design curriculum to two-dimensional design solutions.	Apply the elements and principles of design and related theories throughout the interior design curriculum to two-dimensional design solutions.	Recognize the elements and principles of design and related theories throughout the interior design curriculum to two-dimensional design solutions.	Does not apply the elements and principles of design and related theories throughout the interior design curriculum to two-dimensional design solutions.	ID8 DESIGN ELEMENTS + PRINCIPLES	Design Competence	CIDA Standard 11. Design Elements and Principles
Effectively apply the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Analyze the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Apply the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Recognize the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Does not the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	ID8 DESIGN ELEMENTS + PRINCIPLES	Design Competence	CIDA Standard 11. Design Elements and Principles
Recognize the environmental impact of illumination strategies and decisions.	Analyzes the environmental impact of illumination strategies and decisions to designs.	Recognizes the environmental impact of illumination strategies and decisions.	Identifies some environmental impacts of illumination strategies and decisions.	Does not recognize the environmental impact of illumination strategies and decisions.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standard 12. Light and Color
Understand the principles of natural and artificial lighting design.	Applies the principles of natural and artificial lighting design.	Understand the principles of natural and artificial lighting design.	Identifies the principles of natural and artificial lighting design.	Does not understand the principles of natural and artificial lighting design.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standard 12. Light and Color
Understand strategies for using and modulating natural light.	Applies strategies for using and modulating natural light.	Understand strategies for using and modulating natural light.	Identifies strategies for using and modulating natural light.	Does not understand strategies for using and modulating natural light.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standard 12. Light and Color
Understand how light and color in the interior environment impact health, safety, and wellbeing.	Applies light and color in the interior environment to creatively and critically impact health, safety, and wellbeing.	Understands how light and color in the interior environment impact health, safety, and wellbeing.	Identifies some ways in which light and color in the interior environment impact health, safety, and wellbeing.	Does not understand how light and color in the interior environment impact health, safety, and wellbeing.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standard 12. Light and Color
Select and apply products and materials on the basis of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost.	Evaluates products and materials on the basis of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost.	Selects and applies products and materials on the basis of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost.	Selects and applies products and materials but without consideration of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost.	Does not select and apply products and materials on the basis of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost.	ID10 PRODUCTS + MATERIALS	Design Competence, Critical Thinking	CIDA Standard 13. Products and Materials
Understand that design decisions relating to acoustics, thermal comfort, and indoor air quality impact human wellbeing and the environment.	Apply design decisions that relate to acoustics, thermal comfort, and indoor air quality to impact human wellbeing and the environment.	Understand that design decisions relating to acoustics, thermal comfort, and indoor air quality impact human wellbeing and the environment.	Recognize that design decisions relating to acoustics, thermal comfort, and indoor air quality impact human wellbeing and the environment.	Does not understand that design decisions relating to acoustics, thermal comfort, and indoor air quality impact human wellbeing and the environment.	ID11 ENVIRONMENTAL SYSTEMS + HUMAN WELLBEING	Design Competence, Critical Thinking	CIDA Standard 14. Environmental Systems and Comfort
Understand the principles of indoor air quality.	Apply the principles of indoor air quality.	Understand the principles of indoor air quality.	Recognize the principles of indoor air quality.	Does not understand the principles of indoor air quality.	ID11 ENVIRONMENTAL SYSTEMS + HUMAN WELLBEING	Design Competence, Critical Thinking	CIDA Standard 14. Environmental Systems and Comfort
Understand how the selection and application of products and systems impact indoor air quality.	Apply a critical selection and creative application of products and systems impact indoor air quality.	Understand how the selection and application of products and systems impact indoor air quality.	Recognize how the selection and application of products and systems impact indoor air quality.	Does not understand how the selection and application of products and systems impact indoor air quality.	ID11 ENVIRONMENTAL SYSTEMS + HUMAN WELLBEING	Design Competence, Critical Thinking	CIDA Standard 14. Environmental Systems and Comfort
Understand standards and guidelines related to sustainability and wellness.	Analyzes the standards and guidelines related to sustainability and wellness.	Understands the standards and guidelines related to sustainability and wellness.	Recognizes some of the standards and guidelines related to sustainability and wellness.	Does not understand the standards and guidelines related to sustainability and wellness.	ID13 REGULATIONS + GUIDELINES	Design Competence	CIDA Standard 16. Regulations and Guidelines