IDSD 3870 - SUSTAINABLE OFFICE DESIGN

Credits: 3

Students in this junior-level studio course gain the technical and practical knowledge and skills necessary to design large-scale work environments based on human productivity and business organizations and their goals. Emphasis is on advanced programming, space planning, furniture, finish and equipment specification, and building system integration while adhering to fire and safety codes and ADA requirements as part of design development and presentation. As part of the Sustainable Design Specialization, coursework must be completed using the sustainable knowledge and strategies obtained to date. Upon successful completion of this course, students will have the ability to formulate and communicate a comprehensive design for a work environment based on research and advanced problem-solving strategies.

Prerequisites: ID 3715 - Building Information Modeling: Revit, ID 3530 - Lighting Layout + Design, IDSD 2870 - Sustainable Holistic Design

Notes: (Formerly IDSD 3870 Office Design - Sustainable Design, IDSD 3870 Office Design - Sustainable Notes: (Formerly IDSD 3870 Office Design - Sustainable Design, IDSD 3870 Office Design - Sustainable Design)									
Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes	CIDA Standards		
Define the contexts for interior design practice.	Applies the contexts for interior design practice.	Defines the contexts for interior design practice.	Recalls the contexts for interior design practice.	Does not define the contexts for interior design practice.	ID3 BUSINESS PRACTICES + PROFESSIONA LISM	Design Competence, Critical Thinking	CIDA Standard 6. Business Practices and Professionais m		
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 + PROFESSIONA LISM	Communicati on Competence, Design Competence	CIDA Standard 6. Business Practices and Professionais m		
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		
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		
ID5 DESIGN PROCESS Apply all aspects of the design process to creatively solve a design problem.	Analyzes the aspects of the design process and how they creatively solve design problems.	Applies all aspects of the design process to creatively solve a design problem.	Understands the aspects of the design process, but inconsistently recognizes how they apply to creatively solve design problems.	Does not apply all aspects of the design process nor how they creatively solve design problems.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process		
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 execute the design process: pre-design, schematic design, and design development.	Executes the design process: pre-design, schematic design, and design development.	Synthesizes the design process: pre-design, schematic design, and design development.	Analyzes the design process: pre-design, schematic design, and design development.	Does not execute the design process: pre-design, schematic design, and design development.	ID5 DESIGN PROCESS	Design Competence, Critical Thinking	CIDA Standard 8. Design Process		
Apply knowledge and skills learned to synthesize information to generate evidence-based design solutions.	Generates evidence-based design solutions.	Synthesizes information within design solutions.	Analyzes information within design solutions.	Does not synthesize information to generate evidence-based design solutions.	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.	IDS 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 COMMUNICAT ION	Communicati on Competence	CIDA Standard 9. Communicati on		
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 COMMUNICAT ION	Communicati on Competence	CIDA Standard 9. Communicati on		
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 COMMUNICAT ION	Communicati on Competence	CIDA Standard 9. Communicati on		

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Prerequisites: ID 3715 - Building Information Modeling: Revit, ID 3530 - Lighting Layout + Design, IDSD 2870 - Sustainable Holistic Design

	70 Office Design - Sustainal		esign - Sustainable Design				
Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes	CIDA Standards
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 COMMUNICAT ION	Communicati on Competence	CIDA Standard 9. Communicat on
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 COMMUNICAT ION	Communicati on Competence	CIDA Standar 9. Communicat on
Understand the elements and principles of design, including spatial definition and organization.	Applies the elements and principles of design, including spatial definition and organization.	Understand the elements and principles of design, including spatial definition and organization.	Recognizes the elements and principles of design, including spatial definition and organization.	Does not understand the elements and principles of design, including spatial definition and organization.	ID8 DESIGN ELEMENTS + PRINCIPLES	Design Competence	CIDA Standare 11. Design Elements and Principles
Demonstrate the ability to explore a range of two- and three-dimensional design solutions using a variety of media.	Creates designs informed by a range of two- and three- dimensional design solutions using a variety of media.	Explores a range of two- and three-dimensional design solutions using a variety of media.	Explores some two- and three- dimensional design solutions using some variety of media.	Does not explore a range of two- and three-dimensional design solutions using a variety of media.	ID8 DESIGN ELEMENTS + PRINCIPLES	Design Competence	CIDA Standar 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 Standar 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 Standar 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 Standar 12. Light and Color
Competently select and apply luminaires and light sources.	Competently selects and applies luminaires and light sources with criticality and creativity.	Competently selects and applies luminaires and light sources.	Selects and applies luminaires and light sources with inconsistency.	Does not competently select and apply luminaires and light sources.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standard 12. Light and Color
Appropriately use color solutions across different modes of design communication.	Critically and creatively uses color solutions across different modes of design communication.	Appropriately uses color solutions across different modes of design communication.	Uses color solutions across some modes of design communication.	Does not appropriately use color solutions across different modes of design communication.	ID9 LIGHT + COLOR	Design Competence, Critical Thinking	CIDA Standare 12. Light and Color
Understand how furnishings, objects, materials, and finishes work together to support the design intent.	Analyze how furnishings, objects, materials, and finishes work together to support the design intent.	Understand how furnishings, objects, materials, and finishes work together to support the design intent.	Recognize how furnishings, objects, materials, and finishes work together to support the design intent.	Does not understand how furnishings, objects, materials, and finishes work together to support the design intent.	ID10 PRODUCTS + MATERIALS	Design Competence, Critical Thinking	CIDA Standare 13. Products and Materials
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
Design and specify a broad range of appropriate products, materials, objects, and elements in support of the design intent.	Evaluate a broad range of appropriate products, materials, objects, and elements in support of the design intent.	Design and specifies a broad range of appropriate products, materials, objects, and elements in support of the design intent.	Design and specifies some appropriate products, materials, objects, and elements in support of the design intent.	Does not design or specify a broad range of appropriate products, materials, objects, and elements in support of the design intent.	ID10 PRODUCTS + MATERIALS	Design Competence, Critical Thinking	CIDA Standare 13. Products and Materials
Recognize the environmental impact of construction.	Understands the environmental impact of construction.	Recognizes the environmental impact of construction.	Recalls some elements of the environmental impact of construction.	Does not recognize the environmental impact of construction.	ID12 CONSTRUCTIO N	Design Competence	CIDA Standar 15. Construction
Understand how design solutions affect and are impacted by base-building structural systems and construction methods.	Evaluates how design solutions affect and are impacted by base-building structural systems and construction methods.	Understands how design solutions affect and are impacted by base-building structural systems and construction methods.	Recognizes that design solutions affect and are impacted by base-building structural systems and construction methods.	Does not understand how design solutions affect and are impacted by base-building structural systems and construction methods.	ID12 CONSTRUCTIO N	Design Competence	CIDA Standard 15. Construction
Understand how design solutions affect and are impacted by interior systems, construction, and installation methods.	Evaluates how design solutions affect and are impacted by interior systems, construction, and installation methods.	Understands how design solutions affect and are impacted by interior systems, construction, and installation methods.	Recognizes that design solutions affect and are impacted by interior systems, construction, and installation methods.	Does not understand how design solutions affect and are impacted by interior systems, construction, and installation methods.	ID12 CONSTRUCTIO N	Design Competence	CIDA Standare 15. Construction
Understand how design solutions affect and are impacted by detailing and specification of interior construction materials, products, and finishes.	Evaluates how design solutions affect and are impacted by detailing and specification of interior construction materials, products, and finishes.	Understands how design solutions affect and are impacted by detailing and specification of interior construction materials, products, and finishes.	Recognizes that design solutions affect and are impacted by detailing and specification of interior construction materials, products, and finishes.	Does not understand how design solutions affect and are impacted by detailing and specification of interior construction materials, products, and finishes.	ID12 CONSTRUCTIO N	Design Competence	CIDA Standar 15. Construction
Understand how design solutions affect and are	Evaluates how design solutions affect and are impacted by the integration of building systems including electrical (such as power, data, lighting, telecommunications, audio visual) and mechanical (such as HVAC, plumbing, and sprinklers).	Understands how design solutions affect and are impacted by the integration of building systems including electrical (such as power, data, lighting, telecommunications, audio visual) and mechanical	Recognizes that design solutions affect and are	Does not understand how design solutions affect and are impacted by the integration of building systems including electrical (such as power, data, lighting, telecommunications, audio visual) and mechanical (such as HVAC, plumbing, and sprinklers).	ID12 CONSTRUCTIO N	Design Competence	CIDA Standard 15. Construction

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Notes: (Formerly IDSD 3870 Office Design - Sustainable Design, ID 3810 Office Design - Sustainable Design)								
					Program	Institutional	CIDA	
Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Outcomes	Outcomes	Standards	
Understand how design	Evaluates how design	Understands how design	Recognizes that design	Does not understand how				
solutions affect and are	solutions affect and are	solutions affect and are	solutions affect and are	design solutions affect and are				
impacted by monitoring	impacted by monitoring	impacted by monitoring	impacted by monitoring	impacted by monitoring	ID12	Design	CIDA Standard	
systems pertaining to energy,	systems pertaining to energy,	systems pertaining to energy,	systems pertaining to energy.	systems pertaining to energy,	CONSTRUCTIO	Competence	15.	
security, and building controls		security, and building controls	security, and building controls	security, and building controls	N		Construction	
systems.	systems.	systems.	systems.	systems.				
Understand how design	Evaluates how design	Understands how design	Recognizes that design	Does not understand how				
solutions affect and are	solutions affect and are	solutions affect and are	solutions affect and are	design solutions affect and are				
impacted by vertical and	impacted by vertical and	impacted by vertical and	impacted by vertical and	impacted by vertical and	ID12		CIDA Standard	
horizontal systems of	horizontal systems of	horizontal systems of	horizontal systems of	horizontal systems of	CONSTRUCTIO	Design	15.	
	transport and circulation such	transport and circulation such	transport and circulation such	transport and circulation such	N	Competence	Construction	
as stairs, elevators, or	as stairs, elevators, or	as stairs, elevators, or	as stairs, elevators, or	as stairs, elevators, or	"		Construction	
escalators.	escalators.	escalators.	escalators.	escalators.				
Understand the formats.	Evaluates the formats.	Understands the formats.	Recognizes the formats,	Does not understand the				
components, and accepted	components, and accepted	components, and accepted	components, and accepted standards for an integrated	formats, components, and accepted standards for an	ID12	Design	CIDA Standard	
standards for an integrated and comprehensive set of	standards for an integrated and comprehensive set of	standards for an integrated and comprehensive set of	and comprehensive set of	integrated and	CONSTRUCTIO	Competence	15.	
interior construction			interior construction		N	Competence	Construction	
documents.	interior construction documents.	interior construction documents.	documents.	comprehensive set of interior construction documents.				
					1010		CIDA CI L L	
Read and interpret base-	Reads and critically interprets	Reads and interprets base-	Reads but cannot adequately	Does not read or interpret	ID12	Design	CIDA Standard	
building construction	base-building construction	building construction	interpret base-building	base-building construction	CONSTRUCTIO	Competence	15.	
documents.	documents with nuance.	documents.	construction documents.	documents.	N	'	Construction	
			Contributes to the production					
Contribute to the production	Generates interior contract	Contributes to the production	of some interior contract	Does not contribute to the				
of interior contract	documents including	of interior contract documents	documents but lacks the	production of interior contract	ID12		CIDA Standard	
documents including	drawings, detailing, schedules,	including drawings, detailing,	ability to contribute to all	documents including	CONSTRUCTIO	Design	15.	
drawings, detailing, schedules,	and specifications appropriate	schedules, and specifications	forms of drawings, detailing,	drawings, detailing, schedules,	l N	Competence	Construction	
and specifications appropriate	to project size and scope.	appropriate to project size and	schedules, and specifications	and specifications appropriate				
to project size and scope.	' '	scope.	appropriate to project size and	to project size and scope.				
			scope.					
Recognize the origins and	Analyzes the origins and	Demonstrates an awareness	Recognizes some the origins	Does not demonstrate an	ID13		CIDA Standard	
intent of laws, codes, and	intent of laws, codes, and	of the origins and intent of	and intent of laws, codes, and	awareness of the origins and	REGULATIONS	Design	16. Regulations	
standards.	standards.	laws, codes, and standards.	standards.	intent of laws, codes, and	+ GUIDELINES	Competence	and Guidelines	
Starradi dis	Starradi as:	iavo, ocaco, aria stariaaras.		standards.	00102211120		and caldelines	
Understand standards and	Analyzes the standards and	Understands the standards	Recognizes some of the	Does not understand the	ID13		CIDA Standard	
guidelines related to	guidelines related to	and guidelines related to	standards and guidelines	standards and guidelines	REGULATIONS	Design	16. Regulations	
sustainability and wellness.	sustainability and wellness.	sustainability and wellness.	related to sustainability and	related to sustainability and	+ GUIDELINES	Competence	and Guidelines	
Sustainability and Welliness.	Sustainability and Welliness.	Sustainability and Welliness.	wellness.	wellness.	· GOIDELINES		una Galacimics	
Understand sector-specific	Analyzes sector-specific	Understands sector-specific	Recognizes some of the	Does not understand sector-				
regulations and guidelines	regulations and guidelines	regulations and guidelines	sector-specific regulations and	specific regulations and	ID13	Design	CIDA Standard	
related to construction,	related to construction,	related to construction,	guidelines related to	guidelines related to	REGULATIONS	Competence	16. Regulations	
products, and materials.	products, and materials.	products, and materials.	construction, products, and	construction, products, and	+ GUIDELINES	Competence	and Guidelines	
p			materials.	materials.				
Apply federal, state/provincial,	Analyzes federal,	Applies federal,	Understands federal,	Does not apply federal,	ID13		CIDA Standard	
and local codes including fire	state/provincial, and local	state/provincial, and local	state/provincial, and local	state/provincial, and local	REGULATIONS	Design	16. Regulations	
and life safety.	codes including fire and life	codes including fire and life	codes including fire and life	codes including fire and life	+ GUIDELINES	Competence	and Guidelines	
· ·	safety.	safety.	safety.	safety.				
Apply barrier-free and	Analyzes barrier-free and	Applies barrier-free and	Understands barrier-free and	Does not apply barrier-free	ID13	Design	CIDA Standard	
accessibility regulations and	accessibility regulations and	accessibility regulations and	accessibility regulations and	and accessibility regulations	REGULATIONS	Competence	16. Regulations	
guidelines.	guidelines.	guidelines.	guidelines.	and guidelines.	+ GUIDELINES	Competence	and Guidelines	