

INDE 63 Course Outline as of Fall 2014

CATALOG INFORMATION

Dept and Nbr: INDE 63

Title: INTER PRD MTRLS LIGHTING

Full Title: Interior Products, Materials, and Lighting

Last Reviewed: 1/25/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:
Introduction to products and materials used in interior design, including flooring, wall coverings, furniture, window treatments, accessories and interior lighting for residential and commercial interiors. The life cycle of products and materials used in interiors, their impact on building occupants, and Indoor Environmental Quality (IEQ) indicators will be discussed.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: Introduction to products and materials used in interior design, including flooring, wall coverings, furniture, window treatments, accessories and interior lighting for residential and commercial interiors. The life cycle of products and materials used in interiors, their impact on building occupants, and Indoor Environmental Quality (IEQ) indicators will be discussed.
(Grade Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:	Transferable	Effective: Fall 2007	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Select the appropriate products and materials including HVAC (Heating, Ventilation, Air Conditioning) systems for specific residential design application.
2. Compare the impact and assess the availability of products used in residential design as well as sustainable and green design.
3. Apply appropriate terminology to communicate materials, products, and system information to clients and professionals in the field.

Objectives:

Upon completion of this course, students will be able to:

1. Describe materials and products commonly used in interiors and their components and characteristics.
2. Identify materials, products, and design solutions suitable for environmentally sustainable and green design.
3. List and describe the functions of systems and technologies commonly used in interiors.
4. Incorporate appropriate materials, products, and systems into an interior design projects.
5. Design interior spaces to ensure maximum Indoor Environmental Quality(IEQ) for building occupants.

Topics and Scope:

- I. Terminology
 - A. Indoor Environmental Quality (IEQ)
 - B. Cradle-to-Cradle certified products and principles
- II. Textiles used in interior design
 - A. Origins of fibers

- B. Construction of yarns
- C. Construction of fabrics
- D. Fabric finishes for interior design fabrics
- E. Fabric weights
- F. Sustainable/Green Textiles
- III. Wood products and characteristics
 - A. Softwoods
 - B. Hardwoods
 - C. Composite wood products
 - D. Wood grains
 - E. Joining methods
 - F. Case goods materials
 - G. Wood finishes
 - H. Sustainable/Green Wood Resources
- IV. Furniture
 - A. Wood
 - B. Metal furniture
 - C. Other furniture materials
 - D. Upholstered furniture
- V. Flooring products and their characteristics
 - A. Hard surface
 - B. Ceramic, wood, bamboo, vinyl composite wood, cork
 - C. Soft floor surfaces
 - D. Carpet weaves, installation methods, and pads
 - 1. Adhesives
 - 2. Impact on building occupants
 - E. Rugs
- VI. Wall and ceiling materials
 - A. Hard and rigid wall structures
 - B. Paint
 - C. Wall coverings
 - D. Ceiling treatments
 - E. Impact on building occupants
 - 1. VOC (Volatile Organic Compound)
 - 2. Indoor Air Quality
- VII. Window treatments
 - A. Function and characteristics
 - B. Soft window coverings
 - C. Top treatments
 - D. Drapery hardware
 - E. Alternative window treatments
 - F. Non-residential considerations
 - G. Impact on building occupants
- VIII. Ceramics
 - A. Clay bodies
 - B. Forms
 - C. Ornamentation
 - D. Reclaimed Materials
- IX. Glass
 - A. Production process
 - B. Types
 - C. Ornamentation

- D. Architectural
- X. Metals
 - A. Characteristics
 - B. Types
- XI. Plastics
 - A. Family of plastics
 - B. Characteristics of various plastics
 - C. Uses of various plastics
 - D. Environmental issues
- XII. HVAC systems
 - A. Heating
 - B. Ventilation
 - C. Air conditioning
 - D. Plumbing
 - E. Electrical
 - F. Impact on Indoor Environmental Quality
- XIII. Acoustics
 - A. Sound measurement devices product
 - B. Reverberation
 - C. Sound buffers product
 - D. Insulating materials and devices
 - E. Special construction materials and techniques product
 - F. Impact on building occupants
- XIV. Lighting systems
 - A. Lighting goals
 - B. Lighting types
 - C. Lighting functions
 - D. Effects of lighting on interiors
 - E. Lighting and seasonal affective disorder
 - F. Mood lighting
 - G. Glare
 - H. Power terminology
 - I. Luminaries or lighting fixtures
 - J. The future of lighting
 - K. Non-residential lighting
 - L. Title 24 lighting standards impact
 - M. Impact on building occupants
- XV. Interior technologies
 - A. Wiring
 - B. Technological control devices
 - C. Information age home automation systems
 - D. Information age wiring and installation
 - E. Built-in systems for residential
 - F. Communication systems
 - G. Home security systems
- XVI. Environmentally sustainable and green design overview
 - A. Definitions
 - B. Outdoor environmental issues
 - C. Indoor environmental issues
 - D. Ventilation
 - E. Design solutions for resource conservation and pollution prevention

Assignment:

1. Read approximately 20 - 40 pages per week
2. Notebook of class notes and handouts
3. Glossary file: 40 - 50 labeled examples of interior products and materials
4. Research a "green" (sustainable) product and write a 3 - 5 page paper
5. 5 - 10 worksheets on products and materials samples or photos
6. Midterm and final exam

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Research paper

Writing
10 - 20%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Worksheets; glossary file

Problem solving
30 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations
0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Midterm and final exam

Exams
20 - 30%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation; notebook

Other Category
10 - 20%

Representative Textbooks and Materials:

Nielson, Karla J. Interiors: An Introduction. McGraw-Hill Companies, 2011 5th Ed.