

**INDE 128 Course Outline as of Spring 2011****CATALOG INFORMATION**

Dept and Nbr: INDE 128 Title: BARRIER FREE DESIGN

Full Title: Barrier Free Interior Design

Last Reviewed: 9/20/2010

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: INDE 65

**Catalog Description:**

This class will explore the accessibility standards and requirements for design of barrier free interior spaces. Includes a review of the California Code and other building and barrier free regulations.

**Prerequisites/Corequisites:**

Course Completion of INDE 20

**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:****Schedule of Classes Information:**

Description: This class will explore the accessibility standards and requirements for design of barrier free interior spaces. Includes a review of the California Code and other building and barrier free regulations. (Grade Only)

Prerequisites/Corequisites: Course Completion of INDE 20

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

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

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course, the student will be able to:

1. Define terminology related to barrier free design.
2. Compare and contrast a variety of design options for accessibility.
3. Locate and interpret codes, laws and statutes related to designing barrier free interiors.
4. Demonstrate a working knowledge of design requirements for accessibility.
5. Assess an interior space and recommend alterations for accessibility.
6. Design a barrier free interior space.
7. Locate and effectively utilize resources for designing accessible interiors.

### **Topics and Scope:**

#### **I. Introduction to Accessibility**

A. Background and numbers of individuals affected

B. Design terminology

1. Universal design
2. Accessible design
3. Adaptable design
4. Barrier free design
5. Transgenerational or life span design

C. History

1. Technical standards and ANSI (American National Standards Institute)
2. ADA (Americans with Disabilities Act)
3. Other disabled access regulations
  - a. Title 24 of the California Code of Regulations
    - i. Chapter 11A
    - ii. Chapter 11B
  - b. UBC (Uniform Building Code)
  - c. UFAS (Uniform Federal Accessibility Standards)

#### **II. Overview of the Codes, Laws, and Statutes**

- A. Certified Interior Designers Law and other professional practice Acts
- B. Title 24
  - 1. Enforcement
  - 2. Existing facilities
  - 3. Alterations
  - 4. Unreasonable hardship
  - 5. Other alteration projects
  - 6. Projects exempt from alteration status
  - 7. New construction
- C. Sections of the Americans with Disabilities Act (ADA)
- D. UBC
- E. UFAS
- F. Definitions
- G. Exemptions
- III. Accessibility
  - A. Route requirements
  - B. Operating controls
  - C. Doors
  - D. Kitchens
  - E. Toilet and bathing facilities
  - F. Exit facilities
  - G. Emergency egress openings
  - H. Smoke detectors
  - I. Halls
  - J. Stairs
  - K. Room dimensions
  - L. Light, ventilation, heating, and sanitation
  - M. Ramps
  - N. Elevators
  - O. Handrails
  - P. Platform lifts
  - Q. Drinking fountains
  - R. Ground and floor surfaces
  - S. Assembly access
  - T. Dining and banquet halls
  - U. Checkstands and check out counters
  - V. Storage requirements
  - W. Public telephones
  - X. Hotel/motel
  - Y. Medical care facilities
- IV. Designing Barrier Free Interiors
- V. Resources

**Assignment:**

- 1. Reading: approximately 5 - 15 pages per week
- 2. Weekly problem solving design assignments (15)
- 3. Assess a public building for possible barrier free adaptations; write a 3-5 page summary report
- 4. Final project: design a barrier free interior space and produce a floor plan showing barrier free access
- 5. Oral presentation of final project
- 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.

Summary report

Writing  
10 - 20%

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

Design assignments; oral presentation of final project

Problem solving  
40 - 50%

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

Final project

Skill Demonstrations  
10 - 20%

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

Exams: multiple choice, true false, completion, short answer

Exams  
10 - 15%

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

Attendance and participation

Other Category  
5 - 10%

## Representative Textbooks and Materials:

Interior Design Reference Manual. David K. Ballast, AIA. Professional Publications, Inc., 2006.  
California Code of Regulations, Title 24, Part 2, current edition.

Americans With Disabilities Act Handbook, Published by the Equal Employment Opportunity Commission and the U.S. Department of Justice, Building News Edition, current edition.

The Accessible Housing Design File, by Barrier Free Environments, Inc. Staff, John Wiley & Sons, 2001.