

# DESIGN

College of the Arts

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Website: <http://www.csulb.edu/depts/design/>

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**Faculty:** Heather Barker, John Kleinpeter, Dorothy Ottolia, Eduardo Perez, José Rivera-Chang, Debra Satterfield, David Teubner, Tom Tredway, Wesley Woelfel

**Administrative Coordinator:** Diane Stein

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## Career Possibilities

Interior Designer • Industrial Designer • Display/Exhibit Designer • Environmental Graphic Designer • Furniture Designer • Automotive Designer • Model Maker • Package Designer • Technical Illustrator • Teacher • Consultant • Commercial Artist • Architectural Illustrator • Product Designer • 3-D Graphic Illustrator (Some of these, and other careers, require additional education or experience. For more information, see [www.careers.csulb.edu](http://www.careers.csulb.edu).)

## Introduction

Today's designer must achieve sufficient educational breadth to adapt successfully to the varying demands imposed on their work by economic, social and psychological factors. A methodology for encouraging the creative problem solving process and the skill to express visual ideas with clarity must be obtained. A competitive portfolio review is held each year to identify students whose work has reached a level of competence necessary to advance to junior- and senior-level courses in Interior Design and Industrial Design. After passing portfolio requirements, selected students are officially admitted to the B.F.A. and B.S. programs. The B.A. program is open to all students.

The academic programs of the Department of Design have been accredited by the National Association of Schools of Art and Design (National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700).

## Programs at a Glance

Bachelor of Arts in Design  
Bachelor of Fine Arts in Interior Design  
Bachelor of Science in Industrial Design

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## Undergraduate Programs

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### Bachelor of Arts in Design (120 Units)

This liberal arts degree provides the opportunity for the student to gain a broad exposure to the discipline. In addition to receiving a foundation through the core courses, the curriculum enables students to tailor their studies with electives from inside or outside of the college.

Students interested in the BA program in Design should apply as early in their academic career as possible, but no later than 60 units.

### Admission Under Impaction

Refer to the following website for additional impaction criteria: [http://www.csulb.edu/depts/enrollment/admissions/impacted\\_major.html](http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html).

### Requirements

Lower Division:

Take a minimum of 6 units from the following courses:

DESN 110 Foundation Design History (3)  
Prerequisite: None

DESN 268: History and Theory of Sustainability in Design (3)

Prerequisite: Completion of GE Foundation requirements or consent of instructor.

AH 111A Foundation Art History I (3)  
Prerequisite: One GE Foundation course

AH 111B Foundation Art History II (3)  
Prerequisite: One GE Foundation course

Take all of the following courses:

DESN 120A Fundamentals of Design (3)  
\*\*C" or better  
Prerequisite: None

DESN 120B Fundamentals of Design (3)  
\*\*C" or better  
Prerequisite: DESN 120A or consent of instructor  
Prerequisite/Corequisite: DESN 151.

DESN 132A Perspective and Rendering Systems (3)  
Prerequisite: None

DESN 132B Perspective and Rendering Systems (3)  
Prerequisites: DESN 132A or consent of instructor

DESN 151 Design Materials and Tools (2)  
Prerequisite: None

DESN 232 Visualization Techniques (3)  
Prerequisites: DESN 120B, DESN 132B or consent of instructor

DESN 255 2D Computer-Aided Graphics (3)  
Prerequisites: DESN 150 or DESN 141 or consent of instructor

Choose one from the following:

DESN 141 Interior Architectural Drafting (3)  
Prerequisite: None

DESN 150 Design Drafting (3)  
Prerequisite: None

Choose one of the following:

DESN 156 3D Computer-Aided Design (3)  
Prerequisite: DESN 150 or consent of instructor

DESN 246 Computer-Aided Drafting (3)  
Prerequisite: DESN 141 or consent of instructor

Upper Division:

Choose one of the following:

DESN 346 Computer-Aided Design - 3D Modeling (3)

Prerequisites: DESN 120B, DESN 151, DESN 232, DESN 246; and for BFA: DESN 312; and for BA: DESN 255; or consent of instructor

DESN 356 Advanced 3D Computer-Aided Design (3)  
Prerequisites: DESN 120B, DESN 150, DESN 151, DESN 156, DESN 232, and DESN 255 or consent of instructor

Take all of the following courses:

DESN 360A Environmental Communication Design (3)  
Prerequisites: 6 units from DESN 110, DESN 268, AH 111A, 111B; DESN 156 or DESN 246, DESN 232, DESN 255 and DESN 346 or DESN 356 or consent of instructor.

DESN 360B Advanced Environmental Communication Design (3)  
Prerequisites: DESN 360A or consent of instructor. For Art majors: ART 327 or consent of instructor.

DESN 450 BA Senior Project (3)  
Prerequisites: DESN 346 or DESN 356, DESN 360A, and 3 units of DESN History or consent of instructor.

Choose one of the following:

DESN 368 History and Theory of Design (3)  
Prerequisite: Completion of GE Foundation requirements.

DESN 369 History of Furniture and Decorative Arts (3)  
Prerequisite: Completion of GE Foundation requirements.

Take a minimum of 16 units from the following courses:

DESN 300, DESN 344A, DESN 344B, DESN 351A, DESN 351B, DESN 352A, DESN 352B, DESN 366, DESN 367, DESN 368, DESN 369, DESN 370, DESN 435A, DESN 435B

### Additional Requirements

A total of 120 units is required for degree completion.

\*Students must achieve "C" or better in each course required by the major.

## Bachelor of Fine Arts in Interior Design (132 units)

This degree prepares students who will eventually seek a master's degree or a position as a professional designer. The BFA program is a rigorous and competitive one. Portfolios are reviewed in the spring semester for fall admission to Junior standing in this degree program.

Applicants to the BFA program must receive a positive recommendation following review of a portfolio submitted by the applicant. For BFA portfolio review consideration, a student must be enrolled in or have successfully completed DESN 245, DESN 255, DESN 312 and DESN 340 with a "C" or better.

Contact department for details of portfolio submission and review process.

### Admission Under Impaction

Refer to the following website for additional impaction criteria: [http://www.csulb.edu/depts/enrollment/admissions/impacted\\_major.html](http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html).

## Requirements

Lower Division:

Take all of the following courses:

DESN 120A Fundamentals of Design (3)

\*\*"C" or better

Prerequisite: None

DESN 120B Fundamentals of Design (3)

\*\*"C" or better

Prerequisite: DESN 120A or consent of instructor.

DESN 132A Perspective and Rendering Systems (3)

Prerequisite: None

DESN 132B Perspective and Rendering Systems (3)

Prerequisites: DESN 132A or consent of instructor.

DESN 141 Interior Architectural Drafting (3)

Prerequisite: None

DESN 142 Beginning Space Planning (3)

Prerequisites: DESN 120A, DESN 132A, DESN 141 and BFA Interior Design Major status; BA in Design with consent of instructor.

DESN 143 Materials of Interiors (3)

Prerequisites: DESN 142 or consent of instructor.

DESN 151 Design Materials and Tools (2)

Prerequisite: None

DESN 232 Visualization Techniques (3)

Prerequisites: DESN 120B, DESN 132B or consent of instructor.

DESN 244 Lighting Design for Interior Architecture (3)

Prerequisites: DESN 120B, DESN 132B and DESN 142 or consent of instructor.

DESN 245 Building Systems for Interior Architecture (3)

Prerequisites: DESN 142 or consent of instructor.

DESN 246 Computer-Aided Drafting (3)

Prerequisite: DESN 141 or consent of instructor.

DESN 255 2D Computer-Aided Graphics (3)

Prerequisites: DESN 150 or DESN 141 or consent of instructor.

Upper Division:

Take all of the following courses:

DESN 312 Interior Architectural Model Building (3)

Prerequisites: DESN 120B, DESN 132B, DESN 142 and DESN 151 or consent of instructor.

DESN 340 Interior Design Process and Theory (3)

Prerequisites: DESN 132B and 142 or consent of instructor.

DESN 341A Interior Design (4)

Prerequisites: DESN 244, DESN 245, DESN 246, DESN 312, DESN 340 and Junior standing in the Interior Design program or consent of instructor.

DESN 341B Interior Design (4)

Prerequisites: DESN 341A and Junior standing in the Interior Design program or consent of instructor.

DESN 342 Interior/Architectural Presentations (3)

Prerequisites: DESN 232, DESN 340, Junior standing in the Interior Design program. Corequisite: DESN 341A or consent of instructor.

DESN 343 Advanced Drafting and Detailing (3)

Prerequisites: DESN 245, DESN 312 and Junior standing in the Interior Design program or consent of instructor.

DESN 346 Computer-Aided Design – 3D Modeling (3)

Prerequisites: DESN 120B, DESN 151, DESN 232, DESN 246; and for BFA: DESN 312; and for BA: DESN 255; or consent of instructor.

DESN 367 History and Theory of Architecture (3)

Prerequisite: Completion of GE Foundation requirements.

DESN 369 History of Furniture and Decorative Arts (3)  
Prerequisite: Completion of GE Foundation requirements.

DESN 440 Professional Practice for Interior

Architecture (3)

Prerequisites: Completion of GE Foundation requirements, completion of one or more Exploration courses, and upper division status. A score of 11 or higher on the GEAR Placement Examination, or completion of the necessary portfolio course required as a prerequisite for GEAR Writing Intensive Capstones. Corequisites: DESN 441A or consent of instructor.

DESN 441A Advanced Interior Design (4)

Prerequisites: DESN 341B, 343 or consent of instructor.

DESN 441B Advanced Interior Design (4)

Prerequisite: DESN 441A or consent of instructor.

A total of 132 units is required for degree completion.

Students must achieve "C" or better in each course required by the major.

## Bachelor of Science in Industrial Design (120 units)

This degree program is concerned with the relationship between technology and the visual arts. It includes background courses in engineering and sciences. Portfolio review is required for admission to the professional BS program. Portfolios are reviewed in the spring semester for fall admission to Junior standing in this degree program. Applicants to the BS program must receive a positive recommendation following review of a portfolio submitted by the applicant. For BS portfolio review consideration, a student must be enrolled in or have successfully completed DESN 280, 320 and 356 with a "C" or better. Contact department for details of portfolio submission and review process.

### Admission Under Impaction

Refer to the following website for additional impaction criteria: [http://www.csulb.edu/depts/enrollment/admissions/impacted\\_major.html](http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html).

### Requirements

Lower Division:

Take 3 units from the following courses:

DESN 110 Foundation Design History (3)

Prerequisite: None

DESN 268 History and Theory of Sustainability in Design (3)

Prerequisite: GE Foundation Requirements or consent of instructor

AH 111A Foundation Art History I (3)

Prerequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.

AH 111B Foundation Art History II (3)

Prerequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.

Take all of the following courses:

DESN 120A Fundamentals of Design (3)

\*\*C" or better

Prerequisite: None

DESN 120B Fundamentals of Design (3)

\*\*C" or better

Prerequisite: DESN 120A or consent of instructor  
Prerequisite/Corequisite: DESN 151.

DESN 132A Perspective and Rendering Systems (3)

Prerequisite: None

DESN 132B Perspective and Rendering Systems (3)  
Prerequisites: DESN 132A or consent of instructor

DESN 150 Design Drafting (3)

Prerequisite: None

DESN 151 Design Materials and Tools (2)

Prerequisite: None

DESN 154 Modeling and Prototyping Techniques (3)

Prerequisites: DESN 150 and DESN 151 or consent of instructor.

DESN 156 3D Computer-Aided Design (3)

Prerequisites: DESN 150 or consent of instructor.

DESN 232 Visualization Techniques (3)

Prerequisites: DESN 120B, DESN 132B or consent of instructor.

DESN 254 Production Materials and Techniques (3)

Prerequisites: DESN 154 and DESN 156 or consent of instructor.

DESN 255 2D Computer-Aided Graphics (3)

Prerequisites: DESN 150 or DESN 141 or consent of instructor

DESN 280 Industrial Design Processes (3)

Prerequisites/Corequisites: DESN 154, DESN 156, DESN 232 and DESN 255 or consent of instructor.

Upper Division:

Take all of the following courses:

DESN 300 Designers in Their Own Words (3)

Prerequisites: 6 units from DESN 110, DESN 268, AH 111A, AH111B or consent of instructor.

DESN 320 Advanced Form Study (3)

Prerequisites: DESN 232 and consent of instructor.

DESN 332 Advanced Idea Generation for Designers (3)

Prerequisite: DESN 232 or consent of instructor.

DESN 331A Industrial Design (3)

Prerequisites: DESN 280 and Junior standing in the Industrial Design program or consent of instructor.

DESN 331B Industrial Design (3)

Prerequisites: DESN 331A and Junior standing in the Industrial Design program or consent of instructor.

DESN 333A Industrial Design Methodology (3)

Prerequisites: DESN 280 and Junior standing in the professional program or consent of instructor.

DESN 333B Industrial Design Methodology (3)

Prerequisites: DESN 333A and Junior standing in the Industrial Design program or consent of instructor.

DESN 356 Advanced 3D Computer-Aided Design (3)

Prerequisites: DESN 120B, DESN 150, DESN 151, DESN 156, DESN 232, and DESN 255.

DESN 368 History and Theory of Design (3)

Prerequisite: Completion of GE Foundation requirements.

DESN 431A Advanced Industrial Design (4)

Prerequisite: DESN 331B or consent of instructor.

DESN 431B Advanced Industrial Design (4)

Prerequisite: DESN 431A or consent of instructor.

DESN 435A Furniture Design (3)

Prerequisites: DESN 151, DESN 232; and for BS: DESN 331A; and for BFA: DESN 341A; and for BA: DESN 255 and DESN 346 or DESN 356; or consent of instructor.

## Additional Requirements

Take a minimum of 3 units chosen from the following:

PHSC 112; PHYS 100A, PHYS 151, PHYS 152;  
CHEM 100; GEOL 102, GEOL 110, GEOL 160; BIOL  
200, BIOL 205, BIOL 207.

A total of 120 units is required for degree completion.

\*Students must achieve "C" or better in each course required by the major.

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## Courses (DESN)

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### LOWER DIVISION

#### 110. Foundation Design History (3)

General survey of the history of design and its evolution through various stages leading to its current expression, analyzing the social influences and contributions of prominent designers of various periods.

Letter grade only (A-F).

#### 120A-B. Fundamentals of Design (3-3)

Prerequisite for DESN 120A: none;

Prerequisite for DESN 120B: DESN 120A or consent of instructor.

Prerequisite/Corequisite for DESN 120B: DESN 151.

Systematic approach to process of designing dimensional objects including color theory, surface, volume investigation.

Letter grade only (A-F). (6 hours laboratory)

#### 132A-B. Perspective and Rendering Systems (3-3)

Prerequisites: for DESN 132A: none; for DESN 132B: DESN 132A or consent of instructor.

Fundamentals of design drawing techniques include perspective, sketching, and rendering techniques for objects and environments.

Letter grade only (A-F). (6 hours laboratory)

#### 141. Interior/Architectural Drafting (3)

Architectural drafting graphic techniques used in light framing, commercial construction with emphasis on interiors.

Letter grade only (A-F). Course fee may be required. (6 hours laboratory)

#### 142. Beginning Space Planning (3)

Prerequisites: DESN 120A, DESN 132A, DESN 141 and BFA Interior Design Major status; BA in Design with consent of instructor.

Fundamental skill development in space planning for interiors. Function, human factors, user experience, aesthetic, perceptual and code related factors are explored.

Letter grade only (A-F). (6 hours laboratory)

#### 143. Materials of Interiors (3)

Prerequisites: DESN 142 or consent of instructor.

In-depth exploration of construction materials, finishes and furnishings, manufacturing processes, resources, sustainability and lifecycle issues related to interior architecture. Examination of materials technology, product innovations and applications through lecture, demonstration and field trips.

Letter grade only (A-F). (3 hours seminar) Not open for credit for students with credit in DESN 243.

#### 150. Design Drafting (3)

Introduction to manual and computer-aided drafting. Includes orthographic and isometric views, cross sections, part and assembly drawing.

Letter grade only (A-F). Course fee may be required. (6 hours laboratory)

#### 151. Design Materials and Tools (2)

Hands-on experience with wood, metal, plastic materials, the technical tools for creating form. Includes appropriate safety instruction for use of power equipment.

Letter grade only (A-F). (4 hours laboratory)

#### 154. Modeling and Prototyping Techniques (3)

Prerequisites: DESN 150, DESN 151 or consent of instructor.

Materials, processes, techniques for creating mock-ups, models, prototypes used by industrial designers.

Letter grade only (A-F). (6 hours laboratory)

#### 156. 3D Computer-Aided Design (3)

Prerequisites: DESN 150 or consent of instructor.

Computer-aided modeling strategies techniques for depicting three-dimensional surfaces, solids.

Letter grade only (A-F). Course fee may be required. (6 hours laboratory)

#### 232. Visualization Techniques (3)

Prerequisites: DESN 120B, DESN 132B or consent of instructor.

Focus on design sketching and presentation skills utilizing industry standard techniques for both objects and environments.

Not open for credit to students with credit in DESN 232A. Letter grade only (A-F). (6 hours laboratory)

#### 244. Lighting Design for Interior Architecture (3)

Prerequisites: DESN 120B, DESN 132B and DESN 142 or consent of instructor.

Exploration of fundamentals of natural and engineered light in architectural and interior space. Specific focus on lighting as it supports design, relates to energy efficiency and human factors.

Letter grade only (A-F). (6 hours laboratory)

#### 245. Building Systems for Interior Architecture (3)

Prerequisites: DESN 142 or consent of instructor.

Fundamental applications of typical building systems (structural, mechanical, plumbing, electrical along with building energy efficiencies/assemblies) as they influence interior architectural design.

Letter grade only (A-F). (3 hours lecture)

#### 246. Computer-Aided Drafting (3)

Prerequisite: DESN 141 or consent of instructor.

Principles, methods of computer graphic applications utilizing AutoCad. Computer drafting of commercial, residential projects.

Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters. Course fee may be required. (6 hours of laboratory)

#### 254. Production Materials and Technical Processes (3)

Prerequisites: DESN 154, DESN 156 or consent of instructor.

Study of production processes, industrial materials utilized in the manufacturing of products. Includes introduction to rapid prototyping.

Letter grade only (A-F). Course fee may be required. (6 hours laboratory)

#### 255. 2D Computer-Aided Graphics (3)

Prerequisites: DESN 150 or DESN 141 or consent of instructor.

Introduction to computer-aided graphics and image manipulation. Composition with typography and image for presentation authoring. Technology and terminology for digital media processes.

Letter grade only (A-F). (6 hours laboratory) Course fee may be required. Not open for credit for students with credit in DESN 256.

### **268. History and Theory of Sustainability in Design (3)**

Prerequisites: GE Foundation Requirements or consent of instructor.

Explores the intellectual and cultural foundations of sustainability issues across design practices and disciplines in human society including historical, contemporary and future theories.

Letter grade only (A-F). (3 hours lecture)

### **280. Industrial Design Processes (3)**

Prerequisites/Corequisites: DESN 154, DESN 156, DESN 232, and DESN 255 or consent of instructor.

Introductory course in the design processes utilized by industrial designers for product development.

Letter grade only (A-F). (6 hours laboratory)

## **UPPER DIVISION**

### **300. Designers in Their Own Words (3)**

Prerequisites: 3 units from DESN 110, DESN 268, AH 111A, AH 111B or consent of instructor.

Prominent design professionals discuss their career experiences and offer advice through formal presentations to design majors and guests.

Letter grade only (A-F). May be repeated up to 6 units.

### **312. Interior Architectural Model Building (3)**

Prerequisites: DESN 120B, DESN 132B, DESN 142 and DESN 151 or consent of instructor.

Building of interior and architectural models for construction, design analysis, presentation.

Letter grade only (A-F). (6 hours laboratory) Not open for credit to students with credit in DESN 242.

### **320. Advanced Form Study (3)**

Prerequisites: DESN 232 and consent of instructor.

Development of 3D models as it relates to Industrial Design. Form generation with emphasis on structure, proportion, surface, transition, detail and trim.

Letter grade only (A-F). (6 hours laboratory)

### **331A. Industrial Design (3)**

Prerequisites: DESN 280 and Junior standing in the Industrial Design program or consent of instructor.

Planning and design of products for industrial production and services. Awareness in user research, scenarios, product manufacturing and styling.

Letter grade only (A-F). (6 hours laboratory)

### **331B. Industrial Design (3)**

Prerequisites: DESN 331A and Junior standing in the Industrial Design program or consent of instructor.

Further planning and design of products for industrial production and services. Awareness in user research, scenarios, product manufacturing and styling.

Letter grade only (A-F). (6 hours laboratory)

### **332. Advanced Idea Generation for Designers (3)**

Prerequisite: DESN 232 or consent of instructor.

Advanced idea generation, traditional and digital sketching using tables. Quick mock-up explorations and multiple format presentations.

Letter grade only (A-F). (6 hours of laboratory) Not open for credit to students with credit in: 232B.

### **333A. Industrial Design Methodology (3)**

Prerequisites: DESN 280 and Junior standing in the professional program or consent of instructor.

Examination of methods, techniques in design problem solving. Course requires student-owned laptop computer. See Department of Design website for current laptop hardware and software specifications.

Letter grade only (A-F). (6 hours laboratory)

### **333B. Industrial Design Methodology (3)**

Prerequisites: DESN 333A and Junior standing in the Industrial Design program or consent of instructor.

Further examination of methods, techniques in design problem solving. Course requires student-owned laptop computer. See Department of Design website for current laptop hardware and software specifications.

Letter grade only (A-F). (6 hours laboratory)

### **340. Interior Design Process and Theory (3)**

Prerequisites: DESN 132B and 142 or consent of instructor

Development of design methodology and exploration of design ideas, processes and sustainability for solving limited scale problems in interior space.

Letter grade only (A-F). (6 hours laboratory) Not open for credit to students with credit in 241.

### **341A. Interior Design (4)**

Prerequisites: DESN 340, DESN 312, DESN 244, DESN 245, DESN 246 and Junior standing in the Interior Design program or consent of instructor.

Focused explorations in the design of sustainable interior environments emphasizing interrelationships between space, architectural form, materials and human factors.

Letter grade only (A-F). (8 hours laboratory)

### **341B. Interior Design (4)**

Prerequisites: DESN 341A and Junior standing in the Interior Design program or consent of instructor.

Further explorations in the design of sustainable interior environments emphasizing spatial dynamics, material and formal applications and focused solutions on environmental and human factors with an emphasis on developing design language proficiency.

Letter grade only (A-F). (8 hours laboratory) May require student-owned laptop computer. See Department website for current laptop hardware and software specifications.

### **342. Interior/Architectural Presentations (3)**

Prerequisites: DESN 232, DESN 340 and Junior standing in the Interior Design program.

Corequisite: DESN 341A or consent of instructor.

Further explorations in the design of sustainable interior environments emphasizing spatial dynamics, material and formal applications and focused solutions on environmental and human factors with an emphasis on developing design language proficiency.

Letter grade only (A-F). (6 hours laboratory)

### **343. Advanced Drafting and Detailing (3)**

Prerequisites: DESN 312, DESN 245 and Junior standing in the Interior Design program or consent of instructor.

Development of advanced drafting and detailing skills for interior architectural design; specifically related to construction processes, materials, joining solutions, and representational conventions.

Letter grade only (A-F). (6 hours laboratory) May require student-owned laptop computer. See Department website for current laptop hardware and software specifications.

### **344A. Display and Exhibition Design (3)**

Prerequisites: 6 units from DESN 110, DESN 268, AH 111A, AH 111B; DESN 120B, DESN 141 or DESN 150, DESN 232, or consent of instructor.

Use of materials, processes, design concepts in planning preparation of displays, exhibits.

Letter grade only (A-F). (6 hours laboratory)

### **344B. Display and Exhibition Design (3)**

Prerequisites: DESN 344A or consent of instructor.

Use of materials, processes, design concepts in planning preparation of displays, exhibits.

Letter grade only (A-F). (6 hours of laboratory)

### **346. Computer-Aided Design – 3D Modeling (3)**

Prerequisites: DESN 120B, DESN 151, DESN 232, DESN 246; and for BFA: DESN 312, and for BA: DESN 255; or consent of instructor.

Computer-aided drawing, rendering, 3D drawing, solid modeling. Includes lighting, animation techniques for spatial/architectural modeling, design.

Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters. Course fee may be required. (6 hours lab)

### **351A. Process of Architectural/Interior Lighting Design (3)**

Prerequisites: DESN 232, DESN 244 or consent of instructor.

Further development in the design processes of natural and engineered lighting solutions in architectural and interior space. Specific focus on current technologies and materials.

Letter grade only (A-F). (6 hours laboratory)

### **351B. Applications of Architectural/Interior Lighting Design (3)**

Prerequisites: DESN 351A or consent of instructor

Focused development of major categories of lighting design application (residential, office, wayfinding, etc.). Specific attention given to common principles, equipment, conventions and energy demands relevant to current code and environmental concerns.

Letter grade only (A-F). (6 hours laboratory)

### **352A. Specialty Equipment (1)**

Prerequisite: DESN 156 or DESN 346; or consent of instructor.

Theory and demonstration of specialty equipment (Rapid Prototyping, the Computer Numeric Control machine and 3D Scanner).

Letter grade only (A-F). May be repeated to a maximum of 2 units in different semesters. (2 hours of laboratory)

### **352B. Advanced Specialty Equipment (1)**

Prerequisite: DESN 352A or consent of instructor.

Advanced training in the operation of specialty equipment (Rapid Prototyping, the Computer Numeric Control machine and 3D Scanner.)

Letter grade only (A-F). May be repeated to a maximum of 2 units in different semesters. (2 hours of laboratory)

### **356. Advanced 3D Computer-Aided Design (3)**

Prerequisites: DESN 120B, DESN 150, DESN 151, DESN 156, DESN 232, and DESN 255.

Advanced computer aided modeling techniques and strategic exercises created to assist, improve and accentuate the design process.

Letter grade only (A-F). (6 hours laboratory)

### **360A. Environmental Communication Design (3)**

Prerequisites: 6 units from DESN 110, DESN 268, AH 111A, AH 111B; DESN 156 or DESN 246, DESN 232, DESN 255, DESN 346 or DESN 356, or consent of instructor.

3D communication design for physical and virtual environments. Create applied systems for audience experience within experimental, dynamic or interactive contexts.

Letter grade only (A-F). (6 hours laboratory) Not open for credit for students with credit in DESN 360.

### **360B. Advanced Environmental Communication Design (3)**

Prerequisites: DESN 360A or consent of instructor. For Art majors: ART 149, ART 327 or consent of instructor.

Advanced 3D communication design for physical and virtual environments. Create applied systems for branded environments, informative installations and site navigation.

Letter grade only (A-F). (6 hours of laboratory) Not open for credit for students with credit in DESN 360.

### **366. Advanced 3D Digital Modeling (2)**

Prerequisite: DESN 346 or consent of instructor.

Advanced texturing, and rendering techniques in 3D digital modeling for interior design.

Letter grade only (A-F). May be repeated to a maximum of 4 units in different semesters. Course fee may be required. (4 hours laboratory)

### **367. History and Theory of Architecture (3)**

Prerequisite: Completion of GE Foundation requirements.

Surveys the development of architecture and underlying theories, relative to the human need to shape the built environment, that define specific periods - from prehistory to the present moment - organized in accordance to historical benchmarks and significant buildings and spaces.

Letter grade only (A-F). Not open for credit to students with credit in ART 417. (3 hours lecture)

### **368. History and Theory of Design (3)**

Prerequisite: Completion of GE Foundation requirements.

Surveys the development of design as an independent creative activity including a consideration of both pre-industrial and post-industrial culture. A study of the technologies, manufacturing methods, and underlying theories that define historical periods and current design trends.

Letter grade only (A-F). Not open for credit to students with credit in ART 418. (3 hours lecture)

### **369. History of Furniture and Decorative Arts (3)**

Prerequisite: Completion of GE Foundation requirements.

Critical survey and study of the global and cultural context of the history of furniture, decorative arts and accessories as they relate to advances in technology, social, aesthetic, human, environmental, economic and political factors.

Letter grade only (A-F). (3 hours lecture)

### **370. Design in Contemporary Society (3)**

Prerequisite: Completion of GE Foundation requirements.

Discover principles of design by examining human relationship to built environment through a sequence of scales: from organization of cities, to public architecture, housing, design of furniture, products. Emphasis will be on experiencing design through lecture, lab, field observations, projects.

Letter grade only (A-F). (3 hours lecture)

### **431A. Advanced Industrial Design (4)**

Prerequisite: DESN 331B or consent of instructor.

Advanced planning and execution of industrial design projects. Awareness in user experience, market research, product development, manufacturing, branding and entrepreneurship.

Letter grade only (A-F). (8 hours laboratory )

### **431B. Advanced Industrial Design (4)**

Prerequisite: DESN 431A or consent of instructor.

Continuation of advanced planning and execution of industrial design projects. Awareness in user experience, market research, product development, manufacturing, branding and entrepreneurship.

Letter grade only (A-F). (8 hours laboratory)

### **435A. Furniture Design (3)**

Prerequisites: DESN 151, DESN 232; and for BS: DESN 331A; and for BFA: DESN 341A; and for BA: DESN 255 and DESN 346 or DESN 356; or consent of instructor.

Design of public, private interior furnishings with in-depth study of potentials of contemporary production methods, materials.

Letter grade only (A-F). (6 hours of laboratory)

### **435B. Advanced Furniture Design (3)**

Prerequisites: DESN 435A or consent of instructor.

Continuation of DESN 435A. Projects focus upon research, impact of human factors on design of furniture.

Letter grade only (A-F). (6 hours laboratory)

### **440. Professional Practice for Interior Architecture (3)**

Prerequisites: Completion of GE Foundation requirements, completion of one or more Exploration courses, and upper division status. A score of 11 or higher on the GVAR Placement Examination, or completion of the necessary portfolio course required as a prerequisite for GVAR Writing Intensive Capstones. Corequisites: DESN 441A or consent of instructor.

Examine the basics of professional interior design practices; business standards, project management, marketing, professional ethics, legal issues and the importance of sustainable design. Preliminary programming, building selection and site analysis for senior project.

Letter grade only (A-F). (3 hours lecture)

### **441A. Advanced Interior Design (4)**

Prerequisites: DESN 341B, DESN 343 or consent of instructor.

Advanced design of interior environments emphasizing relationships between built environment and human factors with a focus on professional collaboration and related social and environmental issues.

Letter grade only (A-F). (8 hours laboratory) May require student-owned laptop computer. See Department website for current laptop hardware and software specifications.

### **441B. Advanced Interior Design (4)**

Prerequisite: DESN 441A or consent of instructor.

Further exploration of advanced interior design emphasizing relationships between built environment and human factors. The focus is on researching social and environmental issues while developing and executing a cohesive design project.

Letter grade only (A-F). (8 hours laboratory) May require student-owned laptop computer. See Department website for current laptop hardware and software specifications.

### **442G. Internship in Industrial Design (3)**

Prerequisite: DESN 331A or consent of instructor.

Student internship experience in selected industrial design offices. Opportunity to work under supervision of industrial designers in field to expand student understanding of complexities, discipline, challenges in practice of industrial design.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester. (2 1/4 hours laboratory)

### **442H. Internship in Interior Design (3)**

Prerequisite: DESN 341A or consent of instructor

Student internship experience in selected interior design offices. An opportunity to work under supervision of interior designers, architects in field to expand student understanding of complexities, discipline, challenges in practice of interior design.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester. (2 1/4 hours laboratory)

### **450. BA Senior Project (3)**

Prerequisites: DESN 346 or DESN 356, DESN 360A, and 6 units of DESN History or consent of instructor.

Refine an area of interest through the development of a senior project and portfolio. Should be taken in the semester of graduation.

Letter grade only (A-F). (6 hours laboratory) May require student-owned laptop computer. See Department website for current laptop hardware and software specifications.

### **490. Selected Topics in Design (1-3)**

Prerequisite: Consent of instructor.

Special topics of current interest in design will be selected for intensive study.

Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters. Topics will be announced in the *Schedule of Classes*. (2-6 hours laboratory)

### **495. Field Studies in Design (1-6)**

Prerequisite: Consent of instructor.

An opportunity to study design movements, objects, theories, techniques at appropriate off-campus locations.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester.

### **499C. Special Studies in Display and Exhibition Design (3)**

Prerequisite: Consent of instructor.

Opportunity for extensive work with faculty supervision on individual problems in display, exhibition design.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester. (6 hours laboratory)

### **499G. Special Studies in Industrial Design (3)**

Prerequisite: Consent of instructor.

Opportunity for extensive work with faculty supervision on individual problems in industrial design.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester. (6 hours laboratory)

### **499H. Special Studies in Interior Design (3)**

Prerequisite: Consent of instructor.

Opportunity for extensive work with faculty supervision on individual problems in interior design.

Letter grade only (A-F). May be repeated to a maximum of 6 units. Limited to 6 units in one semester. (6 hours laboratory)