Course Description

DESIGN

Required Courses

ARCH 201 BASIC DESIGN I (5 cr.)
Required for first year, fall term
Design as investigation process: This course is geared for both students of Architecture and Interior Design. Based on the studio format, a sequence of projects is tailored to progressively develop the central skills of observation, research, analytic thinking, and representation, with emphasis on the inventive and intelligent expression of ideas. Students explore 'ways of seeing': understanding and interpreting objects/places/events from their environment and learning to look beyond the obvious and visible into the unseen and often 'absurd' qualities of things.

ARCH 202 BASIC DESIGN II (6 cr.)
Required for first year, spring term
Prerequisites (ARCH 201)
A design studio focused on the development of analytical and technical skills for perceiving, understanding, and manipulating spatial definitions and relationships. This course combines architectural basics and concepts by developing student knowledge on new perspectives and introducing the requirements of human beings, their life and the environment, in addition to the methods of interpretation into architectural entities.

IDES 301 - INTERIOR DESIGN I (4 cr.)
Required for second year, fall term
Prerequisites (ARCH 202)
This course continues the Architecture Department's studio series. Students are expected to build upon and expand knowledge, creative abilities and technical skills acquired during previous studios. This studio will continue to explore and apply theoretical concepts, design processes, graphic communications, sustainable practices, technical knowledge, and regulations related to interior design. In particular, this studio focuses on pre-design research and programming—how to effectively generate creative ideas, work with building users and others to identify needs and to develop a program that addresses those needs and results in spaces that satisfy and inspire.

IDES 302 - INTERIOR DESIGN II (4 cr.)
Required for second year, spring term
Prerequisites (IDES 301)
This course continues the Interior Design I. The focus shifts to a more thorough investigation of interior space and of the creative process involved. At the same time, emphasis is given to means of representation as a vehicle for exploration. The semester's work consists of a series of exercises that build to a summary project.

IDES 401 - INTERIOR DESIGN III (4 cr.)
Required for third year, fall term
Prerequisites (IDES 302)
This course is one of three advanced level design studios taken by third and fourth year students together. Each is devoted to a specific theme and methodology. Collectively, the courses expose the student to a diversity of interior design issues, techniques and approaches to interior design. The main purpose is to provide experience in making by

firmly examining the dialectic between form and space in visual and kinesthetic terms through a series of quick exercises and one long-term design research project. Emphasis is on developing exemplary attitudes in three-dimensional design.

IDES 402 - INTERIOR DESIGN IV (4 cr.)

Required for third year, spring term

Prerequisites (IDES 401)

This course is one of three advanced level design studios taken by third and fourth year students together. Each is devoted to a specific theme and methodology. Collectively, the courses expose the student to a diversity of interior design issues, techniques and approaches to interior design in a bid to nurture their creative thinking. This course has two components that focus on the design of furniture and the advanced design of interior space. This course builds on the previous study of construction, connections and details, and explores profound issues in interior design practice.

IDES 408 - FURNITURE DESIGN (3 cr.)

Required for third year, spring term

Prerequisites (IDES 401)

This course incorporates the study of the history and design of residential and commercial furniture. The components of this course focus on advanced application of design theories and principles in the creation of creative as well as functional furniture, as well as the specification of furniture in interior design projects.

IDES 501 - INTERIOR DESIGN V (4 cr.)

Required for fourth year, fall term

Prerequisites (IDES 402)

This course is one of three advanced level design studios taken by third and fourth year students together. Each is devoted to a specific theme and methodology. Collectively, the courses expose the student to a diversity of interior design issues, techniques, approaches and creative challenges. This course offers an extraordinary opportunity to experience the complexity of design. The project for this studio typically involves the design of a substantial and complex interior space. Emphasis is placed on the clear integration of the various concerns that are typically balanced in design work, including conceptual, functional, programmatic, material, technical, lighting, access, code, and creative sophistication. Students are required to submit a portfolio at the end of the semester.

IDES 502- FINAL YEAR PROJECT (5 cr.)

Required for fourth year, spring term

Prerequisites (IDES 501)

This course is the students design study of an interior design issue of their choice. The design study must be of a professional caliber that entitles students to graduate as professional interior designer ready to practice in the real world. During this course, the students are expected to integrate and synthesize acquired knowledge and skills, and to develop both the theoretical/critical and practical components of their research and design projects.

IDES 511 - LIGHTING DESIGN (3 cr.)

Required for fourth year, fall term

Prerequisites (IDES 410)

This course explores the fundamentals of lighting design and techniques in the applications for residential and commercial projects. The course will address visual, psychological, and functional elements of lighting specification in the interior space.

IDES 311 - RESIDENTIAL DESIGN (3 cr.)

This course focuses on the design of interiors for residential spaces including space planning, specifying interior finishes, materials, and furniture for use by able-bodied and physically challenged clients. The course also utilizes computer-aided design.

IDES 313 - COMMERCIAL DESIGN (3 cr.)

This course focuses on the study of design principles applied to furniture lay-out and space planning for commercial interiors.

IDES 316 - DESIGNING FOR THE STAGE AND THE SET (3 cr.)

This course is an introduction to the development of set design for theatre houses and TV programs -from scenery construction to the fundamentals of stage mechanics, as well as lighting and sound design. Students learn to appraise play and TV program sets. They are encouraged to work with actual directors to transform their visions into architectural and aesthetic expressions.

IDES 318 - KITCHEN AND BATH DESIGN (3 cr.)

This course is an in-depth introduction to residential kitchen and bath design, with the aim of developing expertise for planning and creating functional, efficient, and aesthetically pleasing kitchens and baths. From design concept to construction, emphasis is placed on floor plans, elevations, perspectives, specifications of materials and finishes, appliance selection, and cabinet design. Studio projects will analyze and apply Kitchen and Bath standards.

IDES 411 - GRAPHIC ART OF INTERIOR DESIGNERS (3 cr.)

The course is an introduction to visual communication concepts and tools. Students will learn the fundamentals of typography design and layout, as well as digital skills. The class includes basic design and type exercises using Photoshop and Illustrator. The course is expected to explore the integration of graphic art in interior spaces and to develop the essential design skills the students need to produce graphics for print, advertising, corporate identity, and other media.

IDES 510 - ADVANCED INTERIOR DESIGN DETAILING (3 cr.)

This course is organized to illustrate that detailing is an integral part of an ongoing design process. Just as there is no single procedure for designing spaces, there is no exact method, technique, of formula for the designing of details. The ability to communicate your design intentions to the contractor or fabricator is critical to the successful and efficient completion of your design project

COMPUTATION DESIGN AND FABRICATION

Required Courses

ARCH 203 - ARCHITECTURAL COMMUNICATION I (6 cr.)

Required for first year, fall term

This course is an introduction to the basic language of visualization and conceptual reading/representation of architecture and the built environment offering a shared inventory and basic framework upon which to build subsequent studies. The course stresses on the relationship between the idea (the graphic depiction), the media, materials, and technique through its two structural parts: the non-measurable freehand representation that exposes the students to a number of media (pencil, charcoal, ink, and coloring) and representational tools and the measurable where

students learn and apply the principles of descriptive geometry to illustrate and communicate design ideas. This includes orthographic drawing, axonometric projection, architectural diagramming, vignette sketching, and physical modeling. While the assignments are designed to contribute to an integration of these two parts, they culminate in an analytic project whereby students shall be asked to communicate the varied conceptual characteristics of an architectural project of their selection.

ARCH 204 - ARCHITECTURAL COMMUNICATION II (3 cr.)

Required for first year, spring term

Prerequisites (ARCH 203)

Developing on its prerequisite (ARCH 203), this course exposes the students to the intersection of solids, sun behavior and ways to react to it through different orientations and contextual conditions, and the construction of shades and shadows that is in itself based on the principles of planar intersections and their application in perspective drawings. Models and drawings will continue to form the necessary investigative tools for communication and as generative instruments of formal, spatial, and tectonic discovery. All exercises are designed to enhance the ability to visualize architectural form and volume three-dimensionally and provide tools that reinforce and inform the design process.

ARCH 300 - COMPUTER AIDED DESIGN I (3 cr.)

Required for second year, summer term

Prerequisites (ARCH 204)

This course is an introduction to and overview of concepts of Computer Aided Design in lectures and exercise form. It enables the students to execute various 2-D digital architectural drawings. The course will comprise basic computer aided drafting skills using the latest release of CAD software including: file management, Cartesian coordinates system, drawing setup, drawing aids, layer usage, drawing 2D geometric shapes, editing objects, array, text applications, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting. In addition to the rendering capacities of CAD software, students will be exposed to additional vector based and raster based rendering software.

ARCH 303 - COMPUTER AIDED DESIGN II (3 cr.)

Required for second year, fall term

Prerequisites (ARCH 300)

The course provides the continuation of the training in CAD programs. It introduces students to additional specific programs that allow students to simulate entire design projects through computer- based programs, such as AutoCAD 3D for solid modeling and surface modeling.

IDES 400 - PORTFOLIO AND PRESENTATION TECHNIQUES (3 cr.)

Required for third year, summer term

Prerequisites (ARCH 303)

This course is designed to help prepare students to successfully develop portfolios and acquire adequate presentation techniques. The course will cover topics such as critical writing concept statements, career options, resume and portfolio preparation.

Elective Courses

IDES 319 - DIGITAL RENDERING (3 cr.)

This course is an intermediate level course for interior design students that aims at introducing rendering techniques using computer software. The course exposes techniques using Adobe Photoshop that illustrate page layout, basic 2D

rendering of plans, and image retouching of 3D renders. Compositing is covered as well, along with techniques of incorporating real life assists into 3D rendering.

HISTORY AND THEORY

Required Courses

IDES 305 - ENVIRONMENTAL PSYCHOLOGY (3 cr.)
Required for second year, fall term
This course explores the interplay between people and their environment. The course studies the aspects of human behavior, personal and cultural values, and cognition. The course helps students understand how environmental psychology can assist design professionals to improve human environment. The course considers how people perceive their environment and how the latter influence human behavior and values.

ARCH 307- WORLD HISTORY OF ARCHITECTURE I (3 cr.)
Required for second year, fall term
This course offers a critical overview of the history of architecture, with a partial focus on the evolution of interior design. The course examines the connection of architecture, and interior design, to different periods and cultures, with an emphasis on practices and traditions in Europe, the US, the Middle East and parts of Asia. The period under study selectively stretches from prehistory to the 20th century.

ARCH 308- WORLD HISTORY OF ARCHITECTURE II (3 cr.)
Required for second year, spring term
Prerequisites (ARCH 307)
This course offers a critical overview of modern design trends from ca.1800 to the present day. It tackles the interaction between design, culture and society and includes design practices and traditions in Europe, the US, the Middle East and parts of Asia.

Elective Courses

IDES 514 - CULTURE AND DESIGN (3 cr.)
This course seeks to give students the opportunity to explore a wide range of ideas they have been previously exposed to in their core requirements. The course, once steeped in traditions of environmental psychology, must respond to the changing intellectual environment of the interior design professional and incorporate concepts founded in the traditions of cultural and literary theory. The need that this course seeks to resolve is allowing students to explore ideas while incorporating standard, new and evolving new and traditions of thought

MATERIAL SCIENCE AND TECHNOLOGY

Required Courses

ARCH 210- INTRODUCTION TO MATERIALS (3 cr.)
Required for first year, spring term
This course offers an introductory overview of the principle materials used in the construction industry of today. More specifically, the course gives a basic introduction to the properties of the five main classes of materials: metals, ceramics, glass, polymers, composites and natural materials with special focus on steel, concrete, brick, wood and plastic materials. Fundamental characteristics of these materials are explained along their structural, mechanical, and physical

properties as well as along their behavior and long-term performance. During this course, students will learn about material and product manufacturing techniques and how they relate to their mechanical and non-mechanical properties. At the end of this course, students will gain a comparative knowledge of material properties and possible applications in architectural design and construction.

ARCH 309 - BUILDING CONSTRUCTION I (3 cr.)

Required for second year, fall term

Prerequisites (ARCH 210)

This course deals with the response of building envelopes to surrounding environmental factors; covering in detail the components of the envelope: floors, walls, doors, windows, and roofs of all types. This course is also an introduction to construction detailing. The aims of the course are for students to achieve an integrated knowledge of building construction, structural systems, material choices and energy transfer mechanisms and the ability to synthesize them into a coherent project that expresses architectural intentions. It also introduces students to the techniques of functional analysis of building performance including computer applications.

IDES 310 - INTERIOR DETAILING AND CONSTRUCTION (3 cr.)

Required for second year, spring term

Prerequisites (ARCH 309)

The purpose of this course is to illustrate detailing as a method to communicate design intentions. This course explores interior mechanical and construction documents that are crucial to the efficient completion of design project.

IDES 320 - TEXTILES (3 cr.)

Required for second year, spring term

Prerequisites (IDES 310)

This course offers an overview of interior design textiles, materials and resources including their applications, cares, characteristics, manufacturing process and installations methods.

IDES 410 - INTERIOR BUILDING SYSTEM (3 cr.)

Required for third year, spring term

Prerequisites (senior standing)

This course covers standard of interior building systems including glazing, woodwork, hardware, structural coordination, barrier free design, and the international building code. The course highlights building technology, and the details, and methods of the construction industry.

Elective Courses

IDES 407 - BASICS OF SUSTAINABLE DESIGN (3 cr.)

This course deals with the thermal and environmental processes which affect buildings, and how the designer responds to or manipulates the thermal environment. It is necessary for the architect to understand these processes, the human response to them, and the materials and tools with which we may work.

IDES 409 – ADVANCED MATERIALS AND FINISHES (3 cr.)

This course introduces the building materials and finishes used in interior applications in the context of their environmental impact, their implications for human health, well- being, and safety, as well as their potential contribution to the function and aesthetics of architectural interiors.

.

LEGAL
Required Courses

ARCH 414 - BUILDING CODES AND LAWS (3 cr.)
Required for fourth year, spring term
This course is a study of the local and regional building codes, with an introduction to other codes (USA, Europe, the Arab World) as comparative tools and an introduction to the local laws governing the building industry.

OTHER
Required Courses

IDES 412 - THE BUSINESS OF DESIGN (3 cr.)
Required for third year, spring term
This course seeks to expose students to the business side of Interior Design. Students will become knowledgeable of professional and business issues including business types and formation, legal considerations, ethics, billing and fees, etc., through the assembly/creation of the rudimentary forms and documentation necessary for the operation of a small business. Students will be exposed to business and office practice, fees and commissions, preparing estimates and contracts, professional discipline, professional ethics, allied businesses, and job opportunities.

Elective Courses

IDES 512 - INTERIOR ENVIRONMENTAL TECHNOLOGY (3 cr.)
This course will introduce students to the theoretical and practical relationships among people, technology and buildings relative to the thermal and visual environment, heating and air- conditioning systems, energy power & electric distribution, environmental quality and sustainability issues, water supply systems, waste disposal systems and life safety systems.

LIBERAL ARTS ELECTIVES

ARCH 208 - COLOR AND PAINTING (3 cr.)
Color plays an important role in our lives, and everyone interacts with it on a daily basis. Color conveys visual information, and can affect us physically as well as psychologically. Understand more about color, color theory, composition, and how you can use it, experiment and explore in an informal studio environment with students from a variety of disciplines. Also, this course aims to extend students painting skills, idea generation and cultivating originality, painting movements, develop their art and critical practices, broaden their understanding and abilities to make and discuss art. By the end of this course, students will present their painting portfolio.

ARCH 211 - CERAMICS (3 cr.)
This course is a creative and technical introduction to ceramics, with emphasis on the potter's wheel, coil building, slab building, glaze application & firing. The class covers the characteristics of the materials used in ceramics as well as the various processes involved. More importantly, the course aims at nurturing student creativity by exploring the possibilities of artistic expression within this particular medium.

ARCH 212 - INSTALLATION ART (3 cr.)

This course explores, with students, the art of installation in various media –including, but not limited to, photography, painting, drawing, audiovisual media and sculpture. The course encourages experimentation beyond the traditional understanding of high art and of art as a tangible outcome. Students learn to critique installation arts and to document their work.

ARCH 213 - PHOTOGRAPHY (3 cr.)

This course is designed for students who may have very little or no experience with photography. The course will provide students with a basic understanding of the essential principles and practices of photography. Students will focus on digital imaging techniques and the use of photography as a fine art and visual language. Students will be informed in the basic principles of photography to ensure a confident foundation for further development and experimentation within the practice of photography as it relates to their own area of study. Field trips may be required.