

B.Sc. in Interior Design-Course description

LNG 171 English 1

LNG 171 exposes students to academic reading and writing skills. It provides instruction and practice in academic reading skills, and requires students to implement writing strategies and participate in classroom discussions. Students will also demonstrate reading comprehension through summarizing and paraphrasing key passages and acquire the skills necessary for success in the first year courses in their major programs. **Pre-requisite None**

LNG 172 English 2

The course focuses on the refinement of reading and writing skills for increased success in the students' major programs of study. It is designed to familiarize students with the critical reading and analytical writing skills through the use of a variety of rhetorical devices, purpose, tone and style to develop critical reading and thinking skills. **Pre-requisite LNG-171**

LNG 173 English II for Engineering & Computing

LNG 173 is an advanced-level English course that explores the written tasks encountered in the professional and academic context within the specialized field of study. In the process of analyzing and composing a research project, students will also develop critical thinking skills and research skills that will help them become effective and successful professionals in their fields. **Prerequisite:** LNG-172

GED 198 Islamic Culture

The course presents an elementary survey of Islam as a religion and an approach to life. Topics include: the Quran, its names characteristics and miracles, the scientific miracles in the Quran, an introduction to the prophetic heritage (the Sunnah), the history of Islam and the Islamic civilization, Islam's vision of the human being, the universe and life, and the pillars of Islamic faith. Students are invited to reflect on the relationships between Islam and other civilizations. **Pre-requisite None**

GED 196 Communication Skills in Arabic 1

يطمح هذا المساق إلى تحقيق مجموعة من المهارات التعليمية الأساسية لبناء شخصية الطالب الجامعي بناء ثقافياً يوافق حياته المهنية ، ويدفعه نحو آفاق ثقافية تساعده على بلوغ مرحلة متقدمة من مراحل استخدام اللغة العربية في المجال العلمي ، والبحث الأكاديمي.

ويشمل هذا المساق ثلاثة محاور أساسية تنطلق من حاجات الدارسين اللغوية :

- 1- قراءات في مجال الاتصال والتواصل الإنساني .
- 2- قراءات في الثقافة الأدبية : يتناول مجموعة من المقالات والدراسات المتقدمة التي تطرح إشكاليات وقضايا تتلاءم مع أهداف التنمية العلمية والفكرية والثقافية والاقتصادية التي تسعى الجامعة إلى تحقيقها على مستوى الفرد والمجتمع .
- 3- أنشطة البحث العلمي : وتتناول البحث الصفي ومجالاته المختلفة ، اختيار نقطة بحثية وإجراءات معالجتها بدءاً من صياغة عنوان البحث ، و طرق جمع مادته و كيفية تدوينها و توثيقها ، و صوغ أفكاره وإخراجه في صورته النهائية

Pre-requisite None

MTH 196 Mathematics for Business

The aim of this course is to introduce students with Applications of mathematical models and specialized calculus techniques required for problem solving and decision making in the business world. Topics include: polynomial, exponential, logarithmic, matrices; integration, partial derivatives and their applications in solving problems in business sectors. The applications include mathematics of finance, including simple and compound interest and annuities; and systems of linear equations. **Pre-requisite None**

GED 199E **UAE Society**

This course is an introduction to the UAE society in its political, geographical, cultural, demographical and social aspects. Students are encouraged to reflect on the evolution of society in view of the fast changes brought by modernization and globalization. Topics include: the Emirates geography and history, aspects of life before and after the Emirates political union, economic and social development, the cultural life before and after the union. ***Pre-requisite None***

GED 140 **Fundamentals of Innovation and Entrepreneurship**

This course is developed for the UAE based on decades of practices and experiences of teaching innovation and entrepreneurship at Stanford University that has fueled innovation and high growth in Silicon Valley. The goal of the course is to equip the next generation of leaders in the UAE with an innovative and entrepreneurial mindset and its related core skills. The course is composed of three modules designed to be taught over a 15-week semester:

Module 1: Design Thinking

Module 2: Entrepreneurship

Module 3: Growth and Leadership

Most sessions include a mix of components: lecture, discussion, interactive activities in class, and open Q & A if an appropriate expert or guest speaker is available. The session descriptions below contain a summary of the session, a list of materials to read and videos to watch before the session, and a set of study questions to contemplate beforehand and to be used in class discussion

Pre-requisite None

DES-121	Design Theory	3-0-3
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DES-121 represents the foundation for the expansive exposure to the theoretical context of design and design activity. It aims at enhancing understanding the meaning and the context of design and the skills of analyzing it. In particular, it focusses on the interpretation of design as formally and creatively shaping human beliefs and experiences, the design process and its vocabulary, the design elements and principles and their manifestations in natural, abstract and man-made contexts. It also addresses the skills of analyzing selected examples and settings to reveal their implicit structures and to link these to the specific factors that have shaped them. The course will provide the basic conceptual foundation for the history courses that will follow. At the same time, it provides a theoretical background for the design activities taken at DES-161 in the same Semester. The course progresses from an exploration of the meaning of design and its process to an understanding of the elements and principles to culminate finally in an exploration of a particular spatial setting. To achieve these intents, structured lectures, assignments and site visits will be utilized. **Co-requisite: DES 161 & 171**

DES-122	Human Factors	3-0-3
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DES-122 touches the social responsibility of architects and interior designers to respond to users' needs in the context of design. It represents the first encounter with systematic analysis of the ways into which a space is used. It aims at enhancing understanding about the dynamic relationship between people and the built environment in view of the variability and changeability of their needs. The course aims at creating an awareness of such diversity and at enhancing knowledge on addressing it in design solutions. In particular, it focuses on

enhancing the awareness about and the understanding of users' needs, the basic concept of anthropometrics, Universal design and the general relationship between users and space on different levels. It also emphasizes the skill of analysing users' needs and design setting in view of specified universal design parameters. DES-122 will prepare the foundations for understanding inclusiveness of varied users requirements in subsequent design studios. Similarly, it supports activities in DES-162 taken at the same semester. It progresses from the concepts of anthropometrics and universal design to a selected component of the built environment to culminate in addressing psychological and cultural effects in a space. To achieve this, lectures, assignment and site visits will be utilized. **Co-requisite: DES 162 & 172**

DES-161

Introduction to Design (Studio)

2-4-4

DES-161 represents the foundation for the nine design courses that will follow, and thus it is a significant milestone in the education of architects and interior designers. The course aims at developing design thinking as a creative and a critical activity enabling a change in people's lives. It focuses on developing the ability of creating and representing 2D and 3D design formulations and their detailed elaboration in response of design intent. To support this, fundamental explorations of the meaning of design, the design process, the design elements and principles and their manifestations in natural and man-made contexts are explored. The course prepares students for DES-162 addressing small-scale generic design problems. For courses offered at the same semester, it represents a context for practically exploring the concepts that are taken in Design Theory and that for applying those taken in Drafting and Model making. DES-161 progresses in four units from an analytical exploration of design and its manifestations to formative activities in selected design projects. It covers identifying design in Natural and Man-made contexts leading to 2D and 3D design formulations addressing design principles. Finally, building on knowledge gained, a simple functional dimension is incorporated in a 3D formulation. Through these units, the articulations of a personal design approach and self-development are emphasized. The course is delivered through lectures, discussions, critiques, and design projects. **Co-requisite: DES 121 & 171**

DES-162

Fundamentals of Design (Studio)

2-4-4

DES-162 touches the foundations of design thinking and prepares students to embark on addressing real architecture and interior design problems. It aims at enhancing design thinking and practice relevant to small-scale simple projects. It enables building awareness about the value of design in formally structuring beliefs, experiences and activities. It contributes to enhancing understanding of the basic nature of the design process. Its main focus is on analyzing design problems, identifying their particularity and on formulating, elaborating and representing solutions that capture such a particularity. The course, in addressing functionality follows DES-161 wherein abstract 2D and 3D explorations were emphasized. It prepares students to address generic design problems comprehensively in the following semester and utilizes knowledge of Human Factors and Freehand Drawing taken at the same semester. Progression is made through projects dealing with an interior space, a shell and a new formulation. To achieve this, design activities, lectures, critique, and site visits are utilized. **Pre-requisite/Co-requisite DES-161, DES-121 & DES-171 & Co-DES 122 & 172**

DES-171**Drafting & Modeling****2-2-3**

DES-171 is the foundation for the essential visual communication skills expected by architects and interior designers. It aims at enhancing understanding of the basic concepts of drafting and model making and at developing the skills of applying these concepts to represent designed and real settings. In particular, the main drafting and model making conventions dealing with text, lines and scale and the main concepts relating to projections, sketching and perspectives are introduced. It focuses on enhancing the skills of constructing these projections leading to the representation of reality and design formulations through plans, sections, elevations and reflected ceiling plans. The course prepares students to other communication skills relating to freehand drawing, rendering and computer aided design. It progresses from basic drawing and model making exercises to a complete set of 2D and 3D drawings of a small project. The course is structured in lectures, class assignments and site sketching. **Co-requisite: DES 121 & 161**

DES-172**Freehand Drawing & Rendering****2-2-3**

DES-172 addresses the aptitude for visually representing the reality around us in order to enhance comprehension. It aims at understanding the main principles of freehand drawing and enhancing the skills of applying them to represent this reality. It addresses the relevance of this specific type of visual representation in revealing reality and explores the potentials of different materials and techniques towards this intent. It focuses on developing the skills of observation, documentation and communication pertaining to the particularity of material and approaches. Value, contour, light and shadow will be addressed. Students will be prepared to produce their portfolio to reveal their specific personal approach and intent. The course will progress in lectures and practical explorations of freehand and rendering work covering lines, shapes, forms, contours, cross contours, volume, value, shading, perspectives and rendering in watercolour and markers. This will be accomplished through structured lectures and individual in-class and out-of-class assignments. **Co-requisite: DES 122 & 161**

DES-221**History of Architecture and Interior Design 1****3-0-3**

DES-221 touches the significance of awareness about history in the education of the architect and the interior designer. It focuses on the development of architecture and interior design from the early beginnings to the 19th century. It examines the manifestation of culture into built form; the architectural and interior design canons and their connections to the natural and cultural factors that have shaped and sustained them over time, their detailed particularity and their key textual and visual details. It also emphasizes the analyses of styles, periods and examples and the presentation of their outcomes and patterns. The course builds on the general introductions in Design Theory and leads to DES-222 relating to subsequent developments and contemporary theories. It connects to other courses in the semester by providing a historical context for the understanding of the design process (DES-261) and of building materials and construction methods (DES-241). The course progresses in describing the early formulations to Mesopotamia, Egypt, Greek, Roman, Byzantine, Romanesque, Gothic, Renaissance, Baroque and the 18th century. To achieve this and in addition to lectures, presentations, seminars and research assignments are utilized. **Pre-requisite LNG-171 & DES-121**

DES-222**History of Architecture and Interior Design 2****3-0-3**

DES-222 addresses the significance of contemporary architecture and interior design since the 19th century. It aims at enhancing knowledge about the language of Western Architecture & Interior design, its movements and styles in view of their historical and intellectual context. It emphasizes understanding the detailed particularity of selected streams, the unique contributions of their pioneers and their theoretical positions and design approaches. It contributes also to the ability of conducting research and abstracting ideas about these traditions. The course builds on DES-221 covering the same intent but for an earlier period. By completing a wide range of history, students will be prepared to focus on selected historical investigations in local and selected contexts. It connects with other courses by providing a historical background for the design process and for the understanding of building materials and processes. The course progresses from Architecture at the turn of the century (Roots of Modern Architecture) to; Modernization and Industrialization, Architecture after WW1, Pioneers of Modernism, Reactions to Modernism, High-Tech and Post-Modernism, the Realists and the Rationalists, Deconstruction and finally the New Directions in Contemporary Architecture. To achieve this, lectures, presentations, seminars and research assignments are utilized. ***Pre-requisite: DES-221***

DES-241**Construction and Design Integration****2-2-3**

DES-241 represents the first introduction to the technical dimensions in the architecture and the interior design education relating to building construction. It aims at enhancing knowledge of construction systems and materials. In particular, three intents are sought. First, enhancing awareness about the importance of constructability in the formulation of design; Second, enhancing understanding of; the relevance of sustainability to building materials, the types of construction (concrete, masonry, steel and wood); their elements and the appropriateness of building materials to specific Architecture and Interior Design settings. Finally, third, enhancing the abilities of assessing building materials and preparing detailing of simple construction components. The course leads to ARC-242 or IND-242 focusing on a more elaborate understanding of detailing. It is also linked to the design studio taken at the same semester by providing a perspective about building materials as they relate to the formulation of design. It progresses from a general introduction of the structural and load bearing systems and foundations to an examination of Masonry, Concrete and Precast Concrete, Steel and Wood constructions. In each, an attempt is made to illustrate the basic characteristics and elements culminating in an elaboration of a simple detail. The course is delivered through lectures and presentations, site visits, exercises and assignments. ***Pre-requisite DES-162***

DES-261**Design Principles (Studio)****3-6-6**

DES-261 represents the foundations for a comprehensive design thinking wherein the design process and criticality are to be formalized. It aims at enhancing the capacity to address small-scale design problems in a comprehensive manner. It emphasizes; creating an awareness about the cultural and natural factors surrounding design; the incorporation, in the formulation of design solutions, the basic knowledge of sustainability, human factors and materials; Addressing and refining space requirements; formulating creative solutions, elaborating detailed design intent and finally creatively representing design analysis and their outcomes. The course builds on earlier small-scale design explorations to lead to subsequent

specialized and bigger problems and is utilizing knowledge of sustainability and construction taken at the same semester. It progresses in interior design and architectural projects addressing residential and public functions. These include submissions on problem analysis (functional, site, symbolic, precedents), concept formulation and final design in each. To achieve this, and in addition to the briefing and design activities, the course incorporates lectures, presentations, seminars, critique and site visits. ***Pre-requisite DES-162, DES-122 & DES-172***

DES-271

Computer Aided Design

2-2-3

This course represents the foundation for utilizing digital representation in the practice of architecture and interior design. It aims at developing the capacity to use graphic drafting and modeling techniques in describing design problems, analysis and solutions. In particular, it enables; creating a general awareness about the value of such techniques; enhancing understanding of the main concepts and developing the skills of utilizing their related tools in creating and manipulating 2D and 3D formulations. The course is designed to introduce the application of Computer Aided Design (CAD) and Building Information Modelling (BIM). The course builds on the general drafting and freehand knowledge and skills gained earlier in the curriculum and prepares students for the utilization of specialized modeling techniques. It utilizes design work taken at the same semester to develop the skills in selected tools. As DES-271 progresses from an introduction of the basic concepts and their applications to the mastering of the different tools culminating in drafting and modeling 2D and 3D comprehensive design formulations. Producing Plans, sections, axonometric drawings, 3D modelling and renderings form the core of class exercises leading to basic presentations of architectural and interior design subjects. A contemporaneous design project in conjunction with DESI 220 will be developed through the application of tools and techniques derived from DESI 231. The course is delivered through a combination of lectures and tutorials workshops in computing lab, along with, demonstrations and applications of varied CAD and BIM authoring tools. ***Pre-requisite DES-171***

DES-341

Environmental Systems & Design Integration

2-2-3

DES-341 contributes to the significance of awareness about the natural climate and its implications on the creation of sustainable settings. It aims at enhancing knowledge and skills relating to passive design. It focuses on understanding human comfort and environmental factors and on applying this understanding in the design of responsive buildings and interiors. The factors that contribute to the heating and cooling of a building and the strategies of minimizing energy consumption will be introduced. Emphasis is placed on selected concepts relating to ventilation, day lighting, solar energy and geometry, shading and control, thermal envelopes, energy efficiency and acoustics. DES-341, in focusing on passive strategies, builds on the general knowledge of sustainability gained in ARC-232 and prepares for ARC-342 or IND-342 wherein detailed active strategies are emphasized. It is also intended to inform sustainability-related decisions in the design studios taken at the same and at subsequent semesters. The course progresses from the concepts of human comfort to solar energy, illumination and acoustics, thermal envelopes and finally passive design strategies. It is delivered through structured lectures, site visits and varied practical work. ***Pre-requisite ARC-262 /IND-262 and ARC-232 /IND-232***

DES-351**Internship****0-6-3**

DES-351 Internship, as a pre-professional experience represents the opportunity of exposure to the real life architectural and interior design practice. It aims at enhancing the knowledge and skills gained earlier and at gaining a deeper and a more comprehensive perspective of these as applied in a professional setting. To support career preparation, it focuses on three intents; First, enhancing awareness about the particular roles of architects and interior designers, second, enhancing understanding of; the main theoretical positions towards the design process and about the varied factors involved in the professional practice of architecture and interior design and particularly those relating to forms of practice and project delivery; and third, enhancing the technical skills of assessing and developing design briefs, formulating design solutions and elaborating detailed design and construction documents. It builds on the comprehensive knowledge and skills gained at the specialized technical and theoretical courses. It prepares for the specialized advanced senior studios by enabling a professional perspective in addressing complex housing, institutional, urban design and the graduation project. Internship covers four weeks (160 Hours) of professional experience in architectural or interior design firms. In each week, there are Weekly Reports by students on their activities and by the field supervisors on the quality of their work. Students are expected to cover Briefing, Design Development, Detailed Design, Construction Documents, Specifications, Schedules, Site Visits, Supervision activities as well as Client Liaison. At the conclusion of Internship students submit a portfolio documenting their internship achievements and attend an Exit interview with faculty.

Pre-requisite * 90 Cr.H. for ID & CGPA ≥ 2 & **120 Cr.H. for ARCH. & CGPA ≥ 2

DES-371**Working Drawings and Detailing****2-2-3**

DES-371 Working Drawing & Detailing establishes the specialized technical representation skills relating to the detailed elaborations of design formulations. It aims at enhancing the capacity of producing working drawings out of general design formulations. In particular, it focuses on three main intents: First, increasing awareness about the value of working drawings in the realization of architecture and interior design; Second, enhancing knowledge about the principles and conventions of detailing and their comprehensive representation as a communication tool for operations towards execution; and Finally third, developing the skills of organizing and preparing a comprehensive set of construction documents incorporating drawing conventions and symbols, cross-referencing schedules and specifications. The course builds on earlier knowledge and skills relating to building construction and drafting courses and to the applications made at the design studios. It prepares for the production of detailed elaborations of selected design components in subsequent design studios and in the comprehensive graduation project in particular. It is linked to ARC-344 focusing on structural design and to ARC-342 focusing on building systems. Both of these courses will provide the technical background necessary for the elaboration of the construction documents as applied to a particular design problem. The course progresses from an introduction of the basic principles and conventions of detailing and its representation, to structured detailed elaborations of typical components of buildings (Roof plan, doors and windows, Façade sections and stairs) to a final production of a complete set of construction documents for a

selected design project. To achieve this, lectures, critique and individual practical works are utilized. ***Pre-requisite ARC-361/IND-361 and ARC-242/IND-242***

IND-232 Research and Design Applications

3-0-3

IND 232 contributes to the essential critical thinking and research competencies of an interior designer relating to the investigation and formulation of interior design. As a general exploration of people's needs and the spatial patterns that characterize them, it focuses on raising questions, formulating abstract ideas and interpreting information in the briefing and design processes through the help of environmental behaviour theories and Evidence-based design. It addresses the relationship between Research and Design, research properties, structure, problems, arguments, variables, operationalization, objectives and methodology. It aims at enhancing the skills of documenting and analysing cases in relation to a general framework, deriving generalized patterns and developing abstract ideas into well-defined and measurable phenomena. The course helps in examining general topics and narrows them towards specific researchable problems and in formulating objectives and the methodology needed to attain them. It is a foundation to apply research competencies in the advanced subsequent design studios and in other courses at the same semester. The basic concepts of research will be discussed leading to examinations of individual cases and of selected topics in interior design. To achieve this, lectures, assignments, individual investigations, and site visits will be utilized. ***Pre-requisite: DES-261 & LNG-172***

IND-242 Construction and Design Integration: Interior Design 2-2-3

IND-242 represents an enhancement to the technical knowledge on construction systems and methods as relating to interior design. It aims at enhancing knowledge of interior construction systems and materials focusing on the detailed elaboration of the combinations of components within them. In particular, two intents are sought. First, enhancing awareness about the importance of detailing in relation to design; and second, enhancing understanding of; the specific relevance of sustainability to the detailing of components, the detailed properties of carpentry systems, the elements in each (windows and doors, frameless glazing, stairs, lightweight façades, ceilings and partitions) and the specific properties of finishes. The course, prepares students to address the construction dimension in the following specialized design studios. It prepares for a greater understanding of building systems and their integration in DES-341. It is linked to the design studio taken in the same semester by providing the background needed in the formulations of design proposals in IND-262. It progresses into interior components and their properties to a discussion of interior materials. These include Doors, Glass, Windows and Frameless Glazing and detail, Flooring, Ceilings, Wood, Partition Walls, Stairs, Escalators and Elevators, and Finishes (Stones, Ceramics, Wood, Stucco and Paints). The course is delivered through structured lectures, site visits and assignments focusing on researching materials and selected construction components. ***Pre-requisite: DES-241***

IND-262 Residential Design (Studio)**3-6-6**

IND-262 Residential Design studio represents the first major interior design studio linking earlier small scale design problems to advanced specialized interior design studios. It aims at developing design thinking through a residential focus in line with the contemporary theories and at enabling students to apply advanced and specialized knowledge within the residential context. IND-262 emphasizes enhancing knowledge on the residential typologies, space planning, material finishes and structural elements. It prepares students to refine their analytical skills and formulating and refining interior design briefs. The course is the first interior design studio focusing on residential design and leads to advanced interior design studios in commercial design and institutional design. The student will gain a series of required skills including client analysis, programming, and materials and finishes. It includes submissions on case studies, evaluation of the existing structure and space quality of the given building and finally a development of the design project. In order to achieve this, the course consists of lectures, presentations, design critiques, submissions and site visits. ***Pre-requisite: DES-261***

IND-331 Furniture Design & Detailing**2-2-3**

IND-331 is a specialized interior design course that introduces students to furniture design and detailing. The course aims at enhancing the knowledge on vocabulary, concepts, the historical development of manufacturing of furniture design and detailing. The course emphasizes enhancing understanding of the different theories and terminology that are used in furniture design, knowledge on detailing solutions and stimulating the creative abilities through designing furniture pieces according to the specific needs of interiors and the course progresses in introducing knowledge and theories about furniture design and concludes with a design of a furniture piece and providing solutions for furniture detailing. In order to achieve this; workshops, lectures, practical demonstrations, joinery factory visits will take place. ***Pre-requisite: DES-122 & DES-222***

IND-342 Lighting & Acoustics**3-0-3**

IND-342 is an advanced theory and skills course involving principles of sound, sound transmission and sound absorption, and, the aesthetic and functional dimensions of lighting design. It aims to advance an understanding of the effects of lighting and sound on human behavior and how to derive quality lighting design and sound control solutions in the built environment. In particular, it enables an understanding of the quantitative and qualitative aspects of daylight and artificial lighting for the design of interior and architectural spaces. It includes lamp technologies, photometric, luminaire spacing criteria, the selection and specification of light fixtures and luminaires, energy efficient lighting, life-cycle cost and lighting for health and well-being. It further explores color as an element in interior design and as a significant aspect of lighting. In addition, it introduces a basic knowledge of acoustics including sound intensity levels, human sensitivity to sound, transmission loss and noise reduction, acoustical ratings of ceilings as well the selection, specification and basic construction criteria for sound control. Through a series of lectures, and presentations, students will learn acoustic control strategies and engage in various learning activities involving lighting design. ***Pre-requisite: DES-341 & IND-242***

IND-343 Interior Finishes & Materials**3-0-3**

IND-343 focuses on formal and material approaches to design and construction positioning interior finishes and materials as a necessary component in the interior design education considering the interpretations of design and interior spaces as dynamic and changing. It aims enhancing the students' knowledge on the vocabulary and terminology of interior specifications, material characteristics and products such as textiles and textile composition; paint; wall and floor coverings; window treatments; tiles; timber; color and application of different materials in various components of interior design. It emphasizes enhancing awareness about the interior finishes and materials in interior design profession, understanding the characteristics of different materials used in interior design, understanding the sustainable material compositions, advancing the abilities of students for the selection and application of suitable finishes based on specific use. The course leads to a more specialized course on working drawings for interior spaces and utilizes knowledge of construction and design integration taken earlier. It progresses in preparing material and finishes proposals for given design projects with a specific function and users in residential, commercial, institutional, hospitality and similar interior projects. To achieve this; workshops, lectures, practical demonstrations, showroom visits and seminars will take place. ***Pre-requisite: IND-242***

IND-344 Building Code**3-0-3**

This course represents the first introduction of the legal framework of building codes into the Interior Design process. Focus will be placed on specifically understanding the International Building Code, Local Building codes and Fire and Life Safety concerns in detail. Emphasis is placed on attaining a critical understanding between the interplay of the design idea with the ability to space plan according to Building Code Requirements and the integration of Interior Design ideas with construction and engineering systems. Students will learn the necessary skills to develop detailed drawings with code based analysis particularly with reference to the studio course IND-362. This course follows on from basic knowledge learnt in DES-241 and IND-242 about Construction and Design Integration. It is taken in parallel with IND-362– Commercial Design and DES-371 Working Drawings and detailing and students will be expected to integrate knowledge from DES-371 into their IND-344 coursework and similarly be able to integrate knowledge and skills learnt in this course into their design studio IND-362. ***Pre-requisite: IND-343***

IND-361 Institutional Design (Studio)**3-6-6**

IND-361 Institutional Design studio represents a continuation of the advanced interior design studios sequence focusing on specialized building types. The course aims at enhancing advanced design thinking relating to the institutional typology. It concentrates on enriching awareness about the particularity of the Institutional space and on developing a clear understanding of the relevant spatial and technical requirements and their related design consideration. It eventually aims at developing the skills of formulating creative sustainable solutions to interior institutional design problems. The course is the second of the specialized interior design studios and progresses to Commercial Design. It includes submissions on case studies, evaluation of existing interiors, an identification of the particular qualities of a given

building and finally the development of a creative interior design proposal. In order to achieve this, the course consists of lectures, presentations, design critiques, submissions and site visits. ***Pre-requisite: IND-262 & DES-222***

IND-362 Commercial Design (Studio)

3-6-6

IND-362 Commercial Design represents the culmination of the studio sequence focusing on the technical dimensions of interior design as applied to specialized commercial design problems. It aims at enhancing advanced design thinking linking the conceptual and functional dimensions of commercial problems to the technical building systems, finishes and furniture. In particular; it enables an enhanced awareness about the particularity of the commercial typology and an enhanced knowledge of the integrated design process covering the detailed stages. It focuses on the development and refinement of design briefs and on the creative formulation, and detailed elaboration of holistic interiors encompassing building systems finishes and fittings. The course is the last of comprehensive design studios focusing on specialized typologies and leads to advanced studios touching selected problems and approaches in the interior design context. It is utilizing knowledge of Lighting and Acoustics, Building Code and working drawings taken at the same semester. It progresses in submissions on problem analysis, concept design and final detailed design. The student will complete an integrated final project, within a business or a retail environment, addressing environmental systems, code analysis, tight-fit and loose-fit furniture, materials, finishes selection and the integrating of electrical, lighting, and plumbing systems. To achieve this and in addition to the briefing and design activities, the course incorporates lectures, presentations, seminars, critique and site visits. ***Pre-requisite: IND-361 & DES-271***

IND-351 Professional Practice & Project Management

3-0-3

IND 351 introduces students to the business of interior design as a profession. It aims to introduce students to the broad areas of the professional Practice at enhancing professionalism, ethics, and the techniques and processes used by the industry to bid, win and manage projects. It will also provide an overview of methods, techniques and tools used to manage Interior Design Projects through Pre contract and Post contract phases. The course progresses from an introduction of: The Profession of Interior Design and the Role of the Interior Designer, Professional Ethics, Design Project Stages, Construction contracts and Client-Consultant Agreements, Pre & Post Contract Services & management, Project Scheduling, Time & Cost Management. The course connects the development of design skills during the previous years to the professional management of design projects in real world scenarios. The course will engage a wide variety of learning modes, including, lectures, group exercises, but will be strongly connected to the local profession and will include visits to Design Practices as well as guest speakers from all facets of the local construction/design industry. To achieve this aim, Lectures, presentations and field trips will introduce students to the various elements of Design Project Management, and expose students to the Principles of Professionalism and Professional Ethics. ***Pre-requisite: IND-361***

IND-461**Senior Project – Dissertation (Studio)****3-6-6**

IND-461 demonstrates the final research, briefing and design accomplishments preparing for the comprehensive graduation project in the development of a self-initiated project based on a strong sense of professionalism and design maturity. It is comprised of two distinct components – Preparing a brief for an individually selected design problem and formulating an advanced exploratory proposal of a common problem. It aims at enhancing the criticality of investigation and the skill of reformulating a general societal need into a comprehensive and a structured interior design brief and at applying design thinking through a selective approach on a particular problem to address theoretical, social, cultural, environmental, and physical design issues. In particular, five intents are sought. First, expanding awareness about the theoretical positions relating to a particular societal need and a building type and interior environment typology; Second, enhancing a refined knowledge of the research-oriented design process, the historical development of a typology, the relationships between the objectives of organizations, their users, activities and spatial requirements; the main constructional, environmental, sustainability and code considerations; Third, enhancing criticality in systematically investigating, topics or interior contexts; Fourth, identifying a societal need and reformulating it in terms of organizational objectives as graduation project. Finally, fifth, it aims at enhancing the skills of analyzing problems (precedents, function, site, sustainability, code and symbolism), redefining their conclusions as a conceptual framework and suggesting detailed possibilities. The course builds on knowledge gained in the previous specialized courses. It is informed by the professional expectations in IND-451. It progresses in two parallel Briefing and Design components. ***Pre-requisite: IND-232, IND-362, IND-344, IND-331 & IND-342***

IND-462**Senior Project Design (Studio)****3-6-6**

IND-462 represents the culmination of the comprehensive integrated design thinking as the transition between interior design education and a professional career. It is a capstone course that reflects advanced design competencies while indicating professional aptitude and abilities. It aims at enhancing an advanced and an independent understanding of the process of integrated interior design and demonstrates achievement on an individually selected interior design problem. It focuses on four intents. First, refining awareness about the role of interior design on making a change in peoples' lives; Second, enhancing a refined understanding of the comprehensive integrated design process, the integration of conceptual and technical dimensions of specialized design problems; Third, advancing the ability of refining user requirements and reinterpreting them into a clear and structured brief; fourth, advancing the ability of creatively formulating comprehensive and unique solutions synthesizing responses to specific human needs and technicality and elaborating in detail the combinations of building components to capture design intents. The course, builds on the theoretical explorations and the varied analyses (precedents, function, site, sustainability, code and symbolism) that were completed in IND-461. Additionally, it utilizes the detailed explorations of Building Codes and the integration of lighting and acoustics. It is supported by IND-451 exploring management of the design process and its professional delivery. It progresses in submissions from concept formulation, concept and final design demonstrating the link between the particular intent and its detailed elaboration. The course, in addition to

design activity, is delivered through seminars, critique and presentation with submissions to juries. ***Pre-requisite: DES-371, DES-351 & IND-461***

DES-231

Sustainability of Buildings

3-0-3

DES-231 represents the first systematic introduction of the planet's environmental challenges and their impact on the disciplines of architecture and interior design. It aims at building an informed position about the global and natural issues and about the strategies to address them by architects and interior designers. In particular, it enables; creating an awareness about the challenges of the depleting natural resource; Enhancing knowledge about the global and the particular local challenges, the impact of building construction methods and materials, the contemporary passive and active design strategies and their impact on energy use; and finally enhancing the skills of analysing architectural and interior design contexts in relation to sustainability and of assessing the impact of selected features. DES-231 establishes the foundations for inclusive design thinking in the subsequent studios towards the natural challenges and the responses towards them. It will also support the design studio taken at the same semester as a background about the relevant properties of building materials and construction methods. The course progresses from an introduction of the natural resources and the roots of environmental problems, to human comfort and energy use and to an exposition of the principles of sustainable design and the passive and active strategies. The course culminates in introducing the international and local benchmarking systems of assessments and accomplishments towards the achievement of sustainability. To achieve this; lectures, presentations, site visits and assignments are utilized. ***Pre-requisite: DES-162***

DES-322

Architecture of The Islamic World

3-0-3

DES-322 addresses the richness and diversity of spiritual and cultural norms and their manifestations in the context of Islamic Architecture. It aims at enhancing knowledge on the formulation of Islamic Architecture, its main characteristics and typologies and their links to the wider influences that shaped and sustained them. It focuses on the early beginnings, the general characteristics in different periods and geographies and their specific connections to the natural and cultural climate. Attention is given to the detailed particularity of the architectural typologies and the main planning and urban principles that were associated with them. Focus is also placed on the analysis of specific phenomena in selected periods and geographies. It will build on knowledge and critical thinking gained earlier in history and theory courses. In constituting a particular context for the examination of the connections between architecture and spiritual and cultural norms, it contributes to a deeper perspective of design thinking commonly associated with advanced studios dealing with specialized problems. Four components are addressed and these are: the definition and the beginnings and the earlier contexts of Umayyad, Abbasid, Egypt and North Africa; the global expansion; building typologies, planning and urbanism and finally selected investigations. To achieve this, lectures, individual research, assignments and presentations will be utilized. ***Pre-requisite: DES-222***

DES-324**On Site Investigation****3-0-3**

On Site Investigation represents the opportunity for students to expand and tackle additional architectural and interior design topics that can vary over time. It aims at enhancing knowledge on selected topics relating to building typologies and at enhancing the skills of analyzing them. In particular, it focuses on expanding knowledge about the selected topics, the characteristics of architecture and interior design typologies, on the relevant documentation and analysis methods. The course requires a topic to be selected and an identification of buildings to be documented and analyzed. It progresses in submissions on research, documentation, analysis and evaluation and finalized with conclusions. To achieve this, the course incorporates lectures, presentations, site visits and seminars. ***Pre-requisite: DES-222***

DES-372 Graphic Design & Portfolio for Architects & Interior Designers 3-0-3

This course introduces the student to the field of graphic design as it pertains to the profession of Architecture & Interior Design. The focus is on providing the student with the skills to help them with preparing their own portfolios, as well as Design presentations, reports, proposals, brochures, and designing signage in the built environment. The course will focus on integrating graphic design with Architecture and Interior Design. The Course is designed to introduce the students to specific 2D Graphic design software to enable them to compile and produce a range of graphic design projects that culminate in a personal portfolio. It builds upon knowledge gained in introductory graphics classes DES-171 and DES-172 and builds upon software knowledge gained in DES-271. It is specifically tailored to prepare students for advanced graphic presentation skills required for specialised design studios ARC-/IND-343. The course will progress from the general knowledge of the elements of Graphic Design to the specific concepts and the strategies to achieve them in the context the Architectural and Interior Design Professions. The course will focus on how to formulate, prepare and produce a Portfolio of work and a design CV, with the specific goal of enabling the student to market themselves to the profession. ***Pre-requisite: DES-271***

DES-373**Visualization****2-2-3**

This course provides a comprehensive overview of concepts and principles that are common in contemporary computer graphics and advanced architectural visualizations. Students will learn how to develop the conceptual background for a sophisticated and target-oriented architectural visualization. It aims to convey an understanding of visualization principles and develop the ability to produce advanced digital architectural visualizations. Conveying an understanding of contemporary digital visualization this course focuses on developing the ability to enhance and visualize architectural projects toward a professional digital visualization workflow; conveying advanced techniques and approaches to particular challenges; and introducing digital visualization tools relevant to architecture and interior design. DES-373 equips students with a set of skills that will allow them to visualize solutions in their advanced design studios, and supports them in other courses. It also serves students in the preparation and enhancement of their portfolio of works and their application for internship. The course is structured into two components. The first focuses on addressing visualization techniques to render and enhance architectural drawings. The second component

explores 3D rendering and enhancement approaches introducing advanced visualization tools, techniques and strategies. This course is delivered in a series of lectures, critiques, discussions, hands-on exercises, and projects. ***Pre-requisite: DES-271***

DES-431 Principles of Landscape Design

3-0-3

This course introduces students to landscape Graphics and the concepts of the fundamentals of landscape and environmental planning. It covers topography and earth modeling, landscape planting techniques, circulation, structures, selecting and analyzing sites, assessing environmental impact and developing detailed designs. ***Pre-requisite: IND-262***

DES-442

Special Topics: Materials & Methods

2-2-3

DES-442 represents a selective enhancement to the technical knowledge on building systems, construction, materials and structures already initiated in the curriculum. It aims at enhancing a developed knowledge of construction methods and materials focusing on the detailed elaboration of the combinations of components within them and the skills of assessing their appropriateness to specific uses. In particular, three intents are sought. First, enhancing awareness about the importance of advanced building methods in relation to design; second, enhancing understanding of their relevance to sustainability, to detailing and; third, enhancing the skills of assessing their uses. This elective course increases the know-how to address the advanced construction methods in the following specialized design studios. It builds on ARC-242 or IND-242, ARC-344, ARC-342. It progresses towards a general introduction of the specialized systems and materials into an exploration of their relevancy to varied settings, uses and contexts. The course is delivered through structured lectures, site visits and assignments focusing on researching new advanced materials and selected construction methods. ***Pre-requisite: ARC-342 or IND-342***

DES-452

Professional Practice Seminar

3-0-3

This course presents an opportunity for a senior level exploration of the specific relevant themes developing in the professional practice of architecture and interior design. Students will be expected, through varying exercises and research, to undertake an in depth study into a specific particular area of practice and in doing so will gain an invaluable insight into the bridge to becoming a member of the professional community. The emphasis on this course is the intersection between education and professional experience and as such it would always be delivered in close collaboration with members of the local profession. It is offered as a Major elective and should be regarded as an opportunity for exploration into current themes of the professional practice of architecture. ***Pre-requisite: ARC-362 or IND-362***

DES-463

Complex Design Studio

2-2-3

This course presents an opportunity for an advanced design exploration into a specific building typology or a specific theoretical approach to architectural design. It aims at enhancing knowledge on the specific typologies and the emerging issues in design debate and at developing the skills of analyzing and applying them on selected design problems. It focuses on the historical development, the relevant technical systems and on the skills of developing design briefs and design formulations. It is offered as a major elective course and will enable the student to advance their knowledge and design skills in a specified area of interest. It

progresses into theoretical explorations and design applications and is delivered through seminars and project submissions. ***Pre-requisite: ARC-362 or IND-362***