

Interior Design Program Course Descriptions

Courses merged with Architecture

ARCH 113 Free Hand Sketching (1:0:3)

Pre-requisite(s): Nil.

Perception of architectural and artistic objects, volumes, textures and materials. Means of expression in freehand sketching of forms and natural settings. Sketching including different plants, objects and people using pencil and other presentation media with special emphasis on the aesthetic proportions of objects. The course incorporates the basic principles of perspective drawing, shade and shadow techniques, and rendering techniques including pencil, ink and watercolor.

ARCH 114 Technical Graphics (2:0:6)

Pre-requisite(s): Nil.

A project-based course; it depends primarily on the development of manual drawing skills. It is based on the use of instruments and equipment necessary for accurate drafting of simple geometric constructions gradually evolved into orthogonal – isometric and axonometric – projections, planes, sections and elevations.

ARCH 115 Architectural Drawing and Presentation (3:1:6)

Pre-requisite(s): ARCH 113

Various techniques of drafting, architectural expressions and projection. Perspective drawings using one and two vanishing points. Techniques of structuring interior and exterior perspectives of buildings, using various means of architectural presentation. The effect of shade and shadow on architectural drawings. Projection of different forms and shapes of buildings.

ARCH 121 Basic Design I (4:0:12)

Pre-requisite(s): Nil.

An introduction to the basic components of two-dimensional design: subject, form, content, with a focus on their dynamic interrelation. Through observation, analysis, discussion of traditional and contemporary approaches in fine and commercial arts, students learn to apply the elements and principles of visual organization to creative projects using various media.

ARCH 122 Basic Design II (4:0:12)

Pre-requisite(s): ARCH 121

This course is an introduction to the fundamental process and concepts of design theory as it relates to the 3-dimensional world. Students will be involved in hands-on explorations through the use of materials such as, but not limited to, foam-core board, plaster, and wire. The functions of space, volume, mass, plane, line, scale, symmetry/asymmetry, form, balance and structure will be explored.

ARCH 223 Computer Architectural Drawing (2:1:3)

Pre-requisite(s): ARCH 114

The role of computers in architectural design and the production of drawings. This course also introduces students to more advanced drawing software including Revit, Rhino, Photoshop, etc.

ARCH 241 History and Theory of Architecture 1 (3:3:0)

Pre-requisite(s): Nil.

Introduction to the history of art and architecture, and their development through the ancient civilizations of Egypt, Mesopotamia, Greece and Rome. Analysis of historical monuments and buildings and their architectural characteristics. Emphasis on the architectural principles, theories, and impact on the development of buildings throughout ancient times. Examining ancient historical patterns. Viewpoints of various progressive theoreticians.

ARCH 242 History and Theory of Architecture 2 (3:3:0)

Pre-requisite(s): ARCH 241

The development of art and architecture through the Early Christian era, Byzantine, Romanesque, Gothic and Renaissance. Comparative analysis of historical building types from Byzantine through classical revivalism in Europe and the United States. Relevant theories of architecture and arts.

ARCH 341 History and Theory of Architecture 3 (3:3:0)

Pre-requisite(s): ARCH 242

Development of Islamic art and architecture since the dawn of Islam. Analysis of architectural characteristics and Islamic heritage. Social, environmental and functional implications on the architecture in the Muslim World, which yield a suitable habitat for Muslim people. Analysis of selected examples of historical monuments from Islamic countries.

ARCH 482 Specifications and Quantity Surveying (3:3:0)

Pre-requisite(s): INDS 313

To prepare the students to handle the practical tasks which face the engineer in real life. The topics discussed in readings and course lectures are selected to give the student a comprehensive understanding of the process of generating, bidding, and performing construction contracts, components of direct and indirect construction costs, work breakdown, contingency and risk. This course teaches the methodology, procedures and organizational techniques involved in preparing a competitive bid. Detailed estimates for each major construction discipline are prepared, based upon real construction project documents. Ethical considerations in budgeting and estimating are discussed. Topics include elements of the construction process, project delivery types and types of construction contracts.

ARCH 485 Professional Practice (3:3:0)

Pre-requisite(s): INDS 411

Professional Practice is a course characterized by breadth rather than depth. The course presents an overview of the historic and contemporary context and complexities of architectural practice and the varied and evolving roles and responsibilities of the architect with an emphasis on the characteristics of best practices.

ARCH 487 Project Management (3:3:0)

Pre-requisite(s): INDS 313

The course covers key components of project management including project integration, project scope management, project time and cost management, quality management, human resource considerations, communications, risk management, and procurement management.

MENG 468 Building Utilities I: HVAC and Mechanical Building Services (3:3:0)

Pre-requisite(s): INDS 222

Heating: radiators, convectors, under floor heating, radiant heating, warm-air heaters, and boilers. Ventilation: natural and mechanical, single-sided ventilation, cross ventilation, and stack ventilation. Air-conditioning: constant volume, variable air volume, fan coils, chilled beams, chilled ceilings, heat pumps, split systems, variable refrigerant flow systems, chillers, dry coolers, cooling towers, and air diffusers. Building design and building services: the different regulatory authorities and requirements of lifts, fire-fighting plumbing, and sewage. Pipes, ducts and cabling. Construction and maintenance procedures. Controls: Analogue and direct digital control, building management systems, and integrated control systems.

MENG 422 Building Utilities II: Illumination, Acoustics, and Electrical Building Services (3:3:0)

Pre-requisite(s): INDS 222

Basic principles of lighting and acoustics and their effect on the design of buildings. Light and sound control and their effect on the selection of materials and textures inside spaces especially those designed with sensitivity to light and sound like theaters, classrooms and halls. Noise treatment and insulation of buildings against noise pollution. Applications using instruments for the measurement of illumination and acoustics.

Interior Design Courses

INDS 111 Color Theory (2:1:3)

Pre-requisite(s): Nil.

Color theory, temperature and schemes are studied. Skills on pigment mixing and color grading are obtained.

INDS 122 Model Making (1:0:3)

Pre-requisite(s): Nil.

This course provides students with skills in architectural model making and with knowledge in model making techniques, materials and processes.

INDS 211 Interior Design Studio I (4:0:12)

Pre-requisite(s): ARCH 122

The course aims to provide students with an introductory idea of the interior design field, interior spaces functionality, and indoor space quality and comfort requirements.

INDS 212 Theory of Semiotics (3:2:3)

Pre-requisite(s): INDS 111

The course aims to introduce students to the theory of semiotics and teach them how to use language, meanings, symbols, images, signs, etc. for expressing design ideas.

INDS 221 Interior Design Studio II (4:0:12)

Pre-requisite(s): INDS 211

This course aims to teach students to design interior spaces with regard to their surroundings and environment. Skills in the analysis and design of mid-size spaces residential and commercial.

INDS 222 Interior Constructions, Materials and Finishes 1 (3:2:3)

Pre-requisite(s): INDS 122

The course offers a comprehensive study on building materials and finishes, and focuses on walls, floors and ceilings. Construction methods and details are studied.

INDS 223 Ergonomics and Furniture Design (2:1:3)

Co-requisite(s): INDS 222

The course addresses the design of interior spaces for healthy living and for safe and efficient work. Human factors, ergonomics and anthropometrics application in the design of spaces and furniture. Space furnishings design and detailing.

INDS 311 Interior Design Studio III (4:0:12)

Pre-requisite(s): INDS 221

The course focuses on commercial and educational interior spaces design, the formation of spatial and functional composition, integration of buildings utilities and formation of a student's individual artistic style.

INDS 313 Interior Constructions, Materials and Finishes 2 (3:2:3)

Pre-requisite(s): INDS 222

A continuation of Interior Constructions, Materials and Finishes 1, the course focuses on windows/doors and their treatments, millwork, cabinetry, built-ins, kitchen and bathroom appliances and fixtures and the interface between different materials.

INDS 321 Interior Design Studio IV (4:0:12)

Pre-requisite(s): INDS 311

The course focuses on medium-scale public spaces design, understanding the various functions of public spaces, horizontal and vertical circulation, and detailed analyses of interior spaces components such as surface, texture, and furniture.

INDS 322 History of Modern Interior Design (3:3:0)

Co-requisite(s): ARCH 341

The course studies and analyzes contemporary interiors, furnishings, accessories and decorative techniques starting from the beginning of the modern era to the present. New materials and decorative techniques development are emphasized.

INDS 323 Design with Light & Sound – High-tech Interiors (2:1:3)

Pre-requisite(s): INDS 313

Through this course students obtain knowledge and practical skills in space's lighting and acoustical design. Integration of light and sound into the design of stages, exhibitions, theaters, halls, etc. High-tech materials and technologies for interiors are studied.

INDS 411 Interior Design Studio V (4:0:12)

Pre-requisite(s): INDS 321

The course focuses on large-scale public spaces design, the understanding of public spaces interrelationships, their role in society and the community, and the integration of light and sound into the design of spaces.

INDS 412 Graduation Project Thesis Research (2:1:3)

Pre-requisite(s): INDS 321

The course is oriented towards the systematic analysis of the graduation project dealing with the nature of the project, functional and spatial relationships, location and setting, physical and human environments, the use of case studies, and provision of synthesis and alternative concepts as design solutions. The outcome will be presented in both a written report and visual presentation.

INDS 421 Graduation Project Design (6:0:18)

Pre-requisite(s): INDS 412

Project-based, the course deals with thesis preparation and research outcomes and synthesis. It proceeds to develop preliminary architectural design concepts, assesses alternative design approaches, development of the design through a systematic process of evaluation of spatial, functional, social, structural, environmental, and aesthetic aspects, and finally, presents the complete design project. This includes the preparation of a full set of working design drawings.

Program Elective Courses

INDS 351 Photography (3;2;3)

Photography is an art for documenting and capturing the beauty of life surrounding us. For Interior design, photography is important for capturing the inner meaning beyond the indoor design. Learning photography means learning how to capture a reality at an exact moment. In this course, students will learn how to use tools and light to produce images related to supporting the interior design object.

INDS 352 Model Making (advanced) (3;2;3)

Model making is the activity of creating a 3D miniature form related to the design. It is a 3D representation of the designer's idea based on the client's need. In the advanced course, the variety of material choices and tools is introduced. The advanced making of model components and materials will be introduced in the workshop class.

INDS 451 Sketch and Painting (3;2;3)

The course is an advanced study with a focus on creating sketches. The use of different drawing materials and drawing base will be introduced and practiced. Producing technical or artistic sketches and developing them into a real painting using different painting color materials will be experienced in the workshop class.

INDS 452 Textile and Printing (3;2;3)

The role of textile in interior design is important. This indoor design material, which is woven or made of fabric, can be used in any variation and in any room design. The important role of textile with its surface characters, color combinations, patterns and arrangements to form different indoor atmospheres will be discussed and implemented along with some printing techniques.