

IND Interior Design

IND 100 Theory and Fundamentals of Design (1-2) 2 crs.
Introduces students to theoretical principles and nomenclature of design. Studies theories pertaining to elements and principles of design, color theory, psychology and color phenomenology as it relates to interior design. Studies human environment, proxemics and spatial behaviors. Examines universal design, designing for specific cultures and genders as well as other topical subjects. Covers the interior design profession, professional organizations and career employment.

Recommended **Corequisite:** IND 101.

IND 101 Interior Design Studio I (2-2) 3 crs.
Studies interior design room arrangement and furniture selection. Investigates the elements and principles of design as they relate to interiors. Studies aesthetic aspects of interior design. Develops interior projects using space planning, furniture selection, the development of furniture elevations, and presentation techniques. (NOTE: Students will need to purchase drafting board and kit in addition to textbooks. Expense estimate may exceed \$300.)
Prerequisite: Prior or concurrent enrollment in IND 100.

IND 102 Interior Design Studio II (2-2) 3 crs.
Continues the study of interior space planning and furniture selection as it relates to a functional and aesthetic interior. Investigates the use of fabric, finishes, color, and texture to complement the interior. Explores aesthetic application of color in interior design.
Prerequisite: IND 101 and IND 106 with grades of C or better.
Recommended **Corequisite:** IND 103.

IND 103 History of Furniture and Interior Architecture (3-0) 3 crs.
Surveys furniture, design motifs and structures from antiquity to the present. Studies authentic designs and their relationship to contemporary applications. Examines the basis for determining the taste level and quality of reproductions and adaptations to the market today.

IND 106 Materials and Sources (3-0) 3 crs.
Studies the construction and finishing of materials other than those of a structural nature, including limitations, quality control, application, uses, installation methods, and quantity calculations. Examines sources available to the designer.

IND 107 Interior Perspective and Rendering (2-2) 3 crs.
Studies drawing and sketching methods of furniture and interior spaces. Develops drawing techniques for interior perspective views of buildings. Explores the use of axonometric drawing and the use of various media to present the three-dimensional delineation of interior design. Examines balance and proportions of interior items within a three-dimensional space. Uses drawing techniques and color to define light and shadow, textures, and material characteristics.
Prerequisite: ART 121, IND 100 and IND 101 with grades of C or better.

IND 110 Problem Solving and Design Communication (1-2) 2 crs.
Introduces the process of visual communication for interior designers. Identifies interior and architectural challenges and examines the design process of problem-solving through space analysis and planning. Utilizes collaborative methods to develop appropriate design strategies and solutions. Applies research and the use of elements and principles of design to skillfully manipulate interior spaces. Utilizes conceptual sketching and oral presentation to communicate design solutions.
Recommended **Corequisite:** IND 100 and IND 101.

IND 114 Codes for Interior Designers (1-2) 2 crs.
Examines how interior building codes, governmental standards and federal regulations affect and are applied to interior design. References BOCA, CABO and various accessibility requirements including the Americans with Disabilities Act.
Prerequisite: IND 101 with a grade of C or better.

IND 116 Interior Detailing and Construction Drawing (2-2) 3 crs.
Studies the methods and materials of interior construction and the graphic methods of communicating this information. Practices fundamental drafting conventions and develops drawing skills necessary for the production of working drawings such as floor plans, elevations, sections, finish schedules, reflected ceiling plans, and details. Discusses methods of electrical, plumbing, and HVAC distribution.

Prerequisite: IND 100 and IND 101 with grades of C or better.

IND 203 3-D Design Studio (2-2) 3 crs.
Studies advanced problems in three-dimensional interior design which concentrate on the development of relationships of interior furnishings, walls, floors and ceilings into a unified design. Applies principles and elements of design theory within a three-dimensional volume of space.

Prerequisite: IND 102, IND 107, IND 114 and IND 116 with grades of C or better.

IND 205 Historic Styles Studio (2-2) 3 crs.
Reviews furniture history. Recreates historic interior designs. Explores creation of interior design through the mixing and stylizing of furniture and finishes.

Prerequisite: IND 102, IND 103 and IND 106 with grades of C or better.

IND 206 Architectural Lighting (3-1) 3 crs.
Examines artificial and natural lighting in interior design. Considers environmental comfort, effects on colors and information required for selection of lamps and fixtures. Acquaints students with the basic calculation methods as they relate to the lighting design process.

Prerequisite: IND 101 with a grade of C or better.

IND 207 Interior Design Internship (1-10) 3 crs.
Provides an opportunity for selected students who meet the prerequisite requirements to work with professionals in approved residential and contract design firms, retail stores, wholesale stores and showrooms specializing in interior design and related products. Students are exposed to various aspects of the interior design field and must present a report about their experience. Recommend preparation: ENG 101 or ESL coursework, or testing equivalency.

Prerequisite: IND 203, IND 205, IND 206 and IND 230 with grades of C or better.

IND 209 Contract Design Studio (2-2) 3 crs.
Applies interior design skills and disabled access to contract interior projects, including floor plans, elevations or perspectives, cabinet drawings, lighting plans, selection of contract furnishings and finishes. Projects may include office spaces, restaurants and other public buildings.

Prerequisite: ARC 116, IND 116, IND 203, IND 205, IND 206, and IND 230 with grades of C or better.

IND 211 Professional Practices for Interior Design (3-0) 3 crs.

Examines the business principles required for a successful interior design practice, including establishing an interior design practice, design project business issues, billing, writing client contracts, interviewing and job opportunities.

Prerequisite: IND 101 with a grade of C or better.

IND 215 Topics in Interior Design (.5-0 to 3-0) .5-3 crs.
Studies selected problems or topics in interior design. The exact content and instructional methodology will vary semester to semester depending on the material to be studied. A syllabus or course outline containing additional information will be available with pre-registration materials each time that the course is offered. This course may be repeated two times to a maximum of three credit hours.

COURSE DESCRIPTIONS**IND 217 Advanced Sketching and Perspective Drawing (1-2) 2 crs.**

Reviews the development of two-point mechanical perspective drawing. Studies freehand drawing and sketching methods of interior and exterior spaces. Develops drawing techniques for interior perspective views of buildings. Explores the use of various media to define light, shadows, textures, and material characteristics.

Prerequisite: ART 121 and IND 107 with grades of C or better.

IND 220 CAD Studio (2-2) 3 crs.

Covers advanced CAD techniques for two-dimensional space planning and interior elevations. Introduces 3-dimensional CAD and 3-D sketching to develop perspectives and walk-throughs of interior spaces. Emphasizes development of computer graphics to augment and represent interior spaces.

Prerequisite: ARC 116 with a grade of C or better.

IND 221 3D CAD Studio for Interior Designers (2-2) 3 crs.

Explores the use of tools and techniques of 3D CAD through the development of conceptual and schematic designs for an interior design project. Promotes the importance of 3D and BIM (Building Information Management) through the use of such applications such as Revit, SketchUp, AutoCAD Architectural and other programs to draw 3D models. Investigates how these programs interact and how to utilize them to create effective design solutions. Includes creating cameras; applying materials to objects; setting up a rendering and animation; using REVIT advanced 3D object types such as mass elements, wall, doors, and windows; extracting important information from BIM; drawing for conceptual design and visual presentation.

Prerequisite: IND 220 with a grade of C or better.

IND 222 3D Design Studio Presentation (2-2) 3 crs.

Develops the skills and techniques for creating photo-realistic renderings suitable for client presentations. This is an advanced level computer-assisted design (CAD) course covering all the basics of the Autodesk 3D Studio Max/Viz program which produces realistic renderings of still images and animations of interior space.

Prerequisite: IND 221 with a grade of C or better.

IND 230 Kitchen Design Studio (2-2) 3 crs.

Examines the technical aspects and accessibility issues of designing kitchens. Practices fundamental drafting conventions including lettering, line work, dimensioning, and symbol usage. Develops drawing for the kitchen including floor plans, electrical and lighting plans, elevations, and cabinet sections using NKBA guidelines and graphic presentation standards.

Prerequisite: IND 102, IND 114 and IND 116 with grades of C or better.

IND 232 Kitchen and Bath CAD Studio (2-2) 3 crs.

Covers an introduction to kitchen and bath industry software techniques for two-dimensional space planning and interior elevations. Introduces 3-dimensional CAD to develop perspectives and walk-through of interior spaces. Emphasis is on the development of computer graphics to augment and represent kitchens, baths, and other interior space.

IND 233 Bathroom Design Studio (1-2) 2 crs.

Examines the technical aspects and accessibility issues of designing bathrooms. Practices fundamental drafting conventions including lettering, line work, dimensioning, and symbol usage. Develops drawing for the bathroom including floor plans, electrical and lighting plans, elevations, and cabinet sections using NKBA guidelines and graphic presentation standards.

Prerequisite: IND 102, IND 114 and IND 116 with grades of C or better.

IND 250 Portfolio Review (1-1) 1 cr.

Prepares students to enter the job market when completing this capstone course. Develops a professional presentation portfolio utilizing printed and multimedia applications. Explores, examines, and executes various presentation options. Discusses writing and designing a resume, cover letter, and interviewing techniques. Emphasizes organizing a strong body of work focused on a specific area of expertise dictated by the students' individual career goals.

Prerequisite: ARC 116, IND 203, IND 205 and IND 230 with grades of C or better OR ARC 116 and ARC 110 or ARC 213 with grades of C or better, or consent of program coordinator.

IND 281 Environmental Design Studio (2-2) 3 crs.

Explores building systems and their impact on the environment. Indoor air quality, thermal control, lighting, acoustic and water systems will be studied including solar power, wind power and other sustainable design energy alternatives. Applies these systems to various sustainable design projects and practices. Investigates LEED certification and other legislative issues. Studies the physical and psychological implications of environmental stress, crowding and institutional living and applies them to projects.

Prerequisite: IND 101 with a grade of C or better.

IND 283 Introduction to Green Design (3-0) 3 crs.

Introduces the main concepts of green design through this introductory course focused on making residential homes environmentally "safe." Explores areas of green design including vocabulary; toxic materials and indoor air quality; recycling; green products and greenwashing; lighting and daylighting; water conservation; energy and land conservation; and building rating systems. Researches resources and tools utilized in sustainable design.

Prerequisite: IND 101 with a grade of C or better.

IND 285 Sustainable Lighting (2-2) 3 crs.

Examines lighting design for both interior and exterior applications based on lighting source sustainability. Includes residential, commercial, retail and exterior lighting. Reviews current sustainable initiatives including energy codes, ASHRAE 90.1, LEED, IGCC, and Energy Star. Also reviews daylighting and controls. Integrates these systems together in the lighting design process for an end result of effective high quality and low energy-use designs.

Prerequisite: IND 101 with a grade of C or better.

