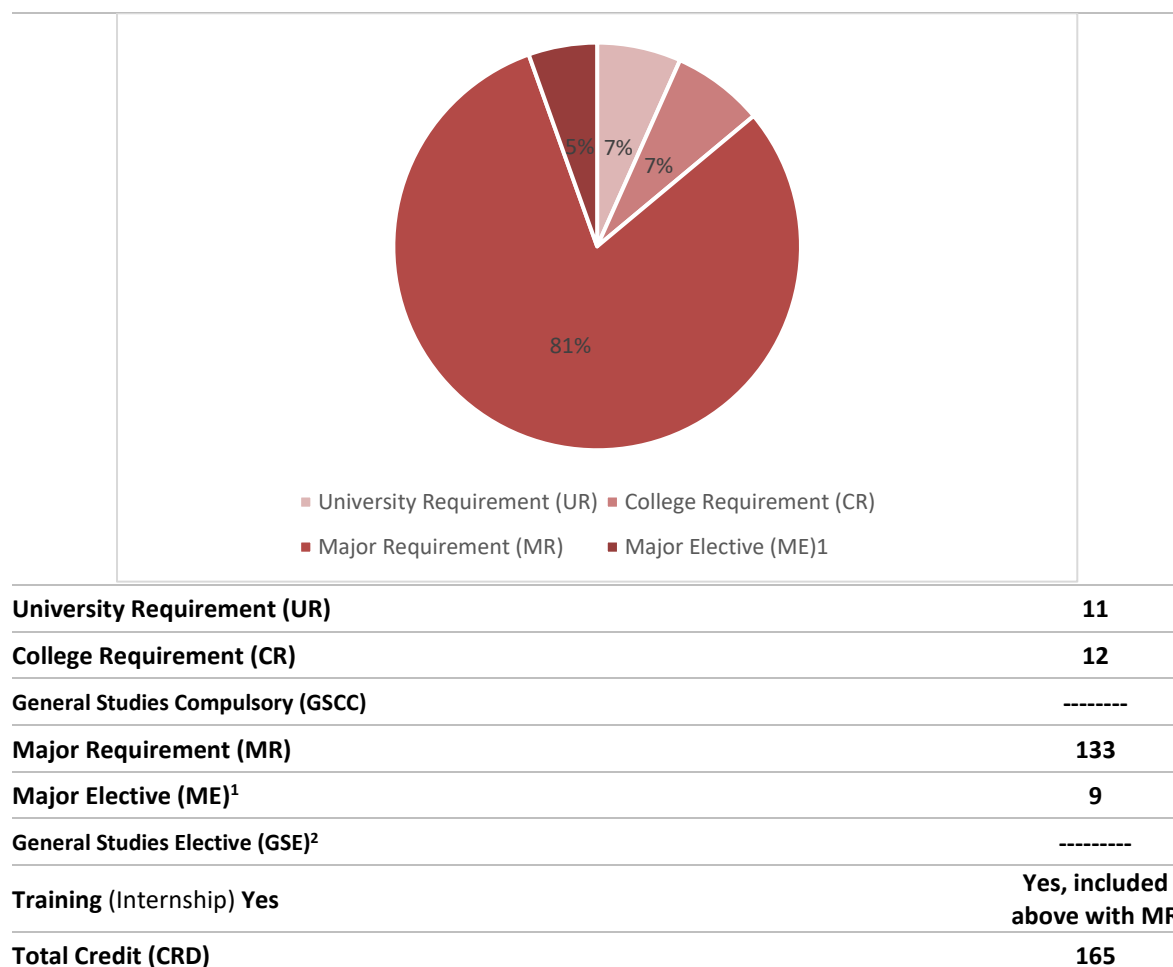


# Bachelor in Interior Architecture

## Program Components



<sup>1</sup> Student must select three courses from Major Elective (ME) (4XX & 5XX) List.

## Detailed Study Plan

### Year 1 - Semester 1

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
ENGL 101	Communication Skills	3	0	3	CR	None	
MATHS 106	Mathematics for Built Environment	3	0	3	CR	None	
HRLC 107	Human Rights	2	0	2	UR	None	
INTA 101	Design Fundamentals I	3	2	4	MR	None	
INTA 102	Design Communication I	3	2	4	MR	None	

### Year 1 - Semester 2

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
ENGL 242	Report Writing and Presentation	3	0	3	CR	None	
PHYCS 107	Physics for Building Design	3	0	3	CR	None	
INTA 103	Design Fundamentals II	3	2	4	MR	INTA 101	
INTA 104	Design Communication II	3	2	4	MR	INTA 102	
INTA 105	Design Visual Communication	3	0	3	MR	INTA 102	

### Year 2 - Semester 3

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 201	Interior Architecture Studio I	6	0	6	MR	INTA 103 & INTA 104	
INTA 211	History and Theory of Interior Architecture I	3	0	3	MR	INTA 103	
INTA 202	Building Construction I	3	0	3	MR	INTA 104	
INTA 203	CAD Application	2	2	3	MR	INTA 104	
INTA 204	Human Behavior Factors in Design	3	0	3	MR	INTA 104	

### Year 2 - Semester 4

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 205	Interior Architecture Studio II	6	0	6	MR	INTA 201	
INTA 221	History and Theory of Interior Architecture II	3	0	3	MR	INTA 211	
INTA 206	Building Construction II	3	0	3	MR	INTA 202	
INTA 207	Digital Design Visualisation	2	2	3	MR	INTA 203	
INTA 224	Environmental Control Systems I	3	0	3	MR	INTA 201	

### Year 3 - Semester 5

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 301	Interior Architecture Studio III	6	0	6	MR	INTA 205	
INTA 311	History of Islamic Interiors	3	0	3	MR	INTA 221	
INTA 316	Building Structure	3	0	3	MR	INTA 206	
INTA 302	Advanced Modelling and Visualization	2	2	3	MR	INTA 207	
INTA 314	Environmental Control Systems II	3	0	3	MR	INTA 224	

### Year 3 - Semester 6

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 303	Interior Architecture Studio IV	6	0	6	MR	INTA 301	
INTA 325	Furniture Design	3	0	3	MR	INTA 301	
INTA 326	Production Drawing	2	2	3	MR	INTA 203	
INTA 327	Design Thinking and Creativity	3	0	3	MR	INTA 301	

### Training Requirement

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			

### Year 4 - Semester 7

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 401	Interior Architecture Studio V	6	0	6	MR	INTA 303	
INTA 402	Material and Quantity Surveying	3	0	3	MR	INTA 326	
HIST 122	Modern Bahraini History	3	0	3	UR	None	
ARAB 110	Arabic Language Skills	3	0	3	UR	None	

### Year 4 - Semester 8

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 403	Interior Architecture Studio VI	6	0	6	MR	INTA 401	
INTA 421	Research Methods	3	0	3	MR	INTA 401	
INTA 404	Design, Culture and Environment	3	0	3	MR	INTA 401	
INTA 42X	Elective I	3	0	3	Elective	INTA 401	

### Year 4 - Semester 9

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 501	Interior Architecture Studio VII	6	0	6	MR	INTA 403	
INTA 511	Graduation: Programming Stage	3	0	3	MR	INTA 421	
INTA 512	Design Project Management	3	0	3	MR	INTA 403	
INTA51X	Elective II	3	0	3	Elective	INTA 401	

### Year 4 - Semester 10

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
INTA 502	Graduation: Design Stage	6	0	6	MR	INTA 501	
INTA 521	Entrepreneurship	3	0	3	MR	INTA 512	
ISLM 101	Islamic Culture	3	0	3	UR	None	

INTA 52X	Elective III	3	0	3	Elective	INTA 401	
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## Major Elective Courses

Course Code	Course Title	Course Hours			Course Type	Pre Requisite	Major GPA
		LEC	PRAC	CRD			
INTA 427	Sustainable Design and Technology	3	0	3	Elective	INTA 401	
INTA 428	Lighting Design	3	0	3	Elective	INTA 401	
INTA 429	Textiles and Printing in Design	3	0	3	Elective	INTA 401	
INTA 514	Service and UX Design	3	0	3	Elective	INTA 401	
INTA 515	Marketing and Branding in Design	3	0	3	Elective	INTA 401	
INTA 516	Product Development and Design	3	0	3	Elective	INTA 401	
INTA 523	Interior Architectural Conservation	3	0	3	Elective	INTA 401	
INTA 524	Special issues in Interior Architecture	3	0	3	Elective	INTA 401	
INTA 525	Digital Design and Innovation	2	2	3	Elective	INTA 401	

## Course Description

Course Code: INTA 101

Course Title: Design Fundamentals I

أساسيات التصميم ١

Describe the role of design basics in interior architecture context. Explain Types of design organizations, design principles and design elements. Demonstrate and analyze spatial relationships. Develop Two- and three-dimensional design solutions emphasizing creative thinking and processing the given information. Use freehand drawing techniques to demonstrate design principles.

Course Code: INTA 102

Course Title: Design Communication I

الرسومات التقنية ١

Use of drafting tools, graphic symbols, and lettering. Apply drawing fundamentals, projection systems, orthographic projection, shade and shadow in the plan and elevation. Employ application of projection techniques to produce architectural drawings.

Course Code: INTA 103

Course Title: Design Fundamentals II

أساسيات التصميم ٢

Explain the following two topics: color and texture. Demonstrate the importance of color properties and principles. Examine tactile and visual textures. Distinguish and reorganize relationships between abstract and functional design. Analysis functional definition of a space and create Two- and three-dimensional design alternatives for simple interiors. Emphasis placed on creativity, conceptual thinking, and implementation of given information.

Course Code: INTA 104

Course Title: Design Communication II

الرسومات التقنية ٢

Distinguish and apply principles of perspective drawing, axonometric and isometric projections, representation of interiors using manual and freehand perspective drawing techniques (one and two points perspectives) and conceptual drawings.

Course Code: INTA 105

Course Title: Design Visual Communication

تصميم الاتصال المرئي

Illustrate, analysis and apply design ideas in interior spaces using different presentation techniques and freehand skills. Focus on visual presentation skills needed in the interior Architecture profession. Employ basic rendering techniques to present interior design ideas in floor plans, elevations, and perspectives.

Course Code: INTA 201

Course Title: Interior Architecture Studio I

ستوديو العمارة الداخلية ١

### Residential Spaces

Interior Architecture Studio-I is a Human-Centered Design course that focuses on tackling simple multi-faceted design problems with low level complexity, adapting design thinking approach. A studio apartment, villa, or beach house, penthouse for example, is a multi-space/multi-function residential space. Describe and analyze a "real-life" user and collect data from them using a variety of research tools and methods. Practice a broad breadth of design thinking using analytical Design Process. Compile and develop design solutions, concepts, and themes to satisfy users.

Course Code: INTA 211

Course Title: History and Theory of Interior Architecture I

تاريخ ونظرية العمارة الداخلية ١

Recognize architecture, interior design, and the arts from the dawn of civilization to the Gothic Period and discuss them in chronological order. Analysis of the built environment and its evolution for the studied periods. Analyze the contextual concerns and issues like social, economic, political, cultural etc that impact the design and architecture of the period. Practice developing historical perspective on understanding the built environment and informing the design solutions.

Course Code: INTA 202

Course Title: Building Construction I

تشبيد المباني ١

The course introduces basic information on structural systems and subsystems, construction process from planning through foundation and framing to final finishes. The course introduces basic building materials and systems used in construction and building projects. Create and analyze different types of structural layout and pattern.

Course Code: INTA 203

Course Title: CAD Application

تطبيقات الكمبيوتر في التصميم

Utilize digital tools to transform architectural and interior ideas and drawings into a digital format. Create computer-generated 2D drawings and represent them with appropriate materials and rendering. Produce basic 3D components to visualize and present spatial concepts.

Course Code: INTA 204

Course Title: Human Behavior Factors in Design

عوامل السلوك البشري في التصميم

Explore the interaction between humans and their built environment, examining the human-centered aspects essential to designing interior spaces that fulfill human needs and enhance quality of life. Analyze anthropometrics, ergonomics, color theory, and emotional design. Understand and apply human perceptions, behaviors, and related theories.

Course Code: INTA 205

Course Title: Interior Architecture Studio II

ستوديو العمارة الداخلية ٢

### Commercial Spaces

This course introduces the basic principles of planning and designing a restaurant and kitchen. Students will learn the conceptual approach to planning a facility with guest appeal as the primary goal. Students will examine planning guidelines, municipal codes, and interior design for food service operations. Students will design a restaurant and kitchen by selecting the furniture and equipment, completing drawing to scale calculations, and incorporating interior design.

Course Code: INTA 221

Course Title: History and Theory of Interior Architecture II

تاريخ ونظرية العمارة الداخلية ٢

Survey of Interior Architecture from Renaissance, Baroque and Rococo period till the contemporary period; distinguish and compare the principles of architecture, interior and art through those periods chronologically. Relate the relationship between the social, economic, political, and environmental factors to the formation of architecture, interior spaces, interior surfaces, furniture, ornamentation and art forms. Explore the movements in architecture, art, design, furniture and philosophy as a means to interpret and apply their relevance to the contemporary practice of the interior architecture.

Course Code: INTA 206

Course Title: Building Construction II

تشديد المباني ٢

This course covers materials for non-structural building components, focusing on their application in creating stable, durable, acoustically sound, and fire-resistant interior elements. It includes knowledge of materials and construction methods for exterior walls, interior partition walls, ceilings, and raised floors. Specifications for doors and windows and the design and calculation of vertical circulation elements—stairs, ramps, and elevators—are covered according to International Building Code (IBC) standards.

Course Code: INTA 207

Course Title: Digital Design Visualization

تصور التصميم الرقمي

Employ digital visualization technologies to explain and promote design approaches. Produce intermediate 3D components. Illustrate and render architecture and interior design spaces using various digital tools. Practice using different digital mediums to present design ideas.

Course Code: INTA 224

Course Title: Environmental Control Systems I

أنظمة التحكم البيئي ١

This course explores environmental systems in buildings, focusing on passive cooling, thermal comfort, and indoor environmental quality. Key topics include heat transfer, natural ventilation, illumination, and HVAC systems. Students will gain a comprehensive understanding of how these elements contribute to sustainable and efficient building design.

Course Code: INTA 301

Course Title: Interior Architecture Studio III

ستوديو العمارة الداخلية ٣

### Educational spaces

Interior Architecture Studio III is a continuation of the concept development projects taken in Interior Architecture Studio II. Distinguish and investigate educational design spaces in relation to learning theories of increasing scale and complexity articulated by the interactions of place. Solve critical elements of the human being when designing such interiors. explore physical, psychological, and social aspects of human beings. Apply design thinking process while solving medium-scale problems.

Course Code: INTA 311

Course Title: History of Islamic Interiors

تاريخ التصميم الداخلي الإسلامي

Explain and explore Islamic interiors geometrical patterns including examples from Umayyad, Abbasid, Moorish, Mogul, and Ottoman periods.

Emphasis on mosque, libraries, and residential architectural types, Islamic ornamentation, geometry and calligraphy. Understand the influence of religious factors on Islamic interiors.

Course Code: INTA 316

Course Title: Building Structure

هياكل المباني

This course examines building structures specifically tailored for interior architecture, with a focus on the fundamentals of structural design, analysis, and planning according to the International Building Code (IBC). Key topics include structural joints, load transfer, structural patterns, and the use of regular and irregular grid layouts, horizontal spans, vertical supports, and long-span structures. Emphasis is placed on integrating comprehensive structural designs and layouts that enhance both functionality and aesthetic in interior architectural spaces.

Course Code: INTA 302

Course Title: Advanced Modelling and Visualization

النمذجة المتقدمة والتصور

Model advanced architectural and interior spaces using 3D software to present design ideas professionally. Assign appropriate materials, lighting, and camera positions to different scenes to generate realistic renders. Incorporate animation to communicate design solutions effectively and develop digital fabrication skillset further.

Course Code: INTA 314

Course Title: Environmental Control Systems II

أنظمة التحكم البيئي ٢

Describe room acoustics, aural comfort, reverberation time and good hearing criteria for rooms of special purposes. Analyze noise control. Explore selection of finishes in accordance with sound absorption and required reverberation time. Discuss Fire control. Passive fire control: escape routes, fire exits, compartmentation. Firefighting systems and equipment. Sanitary installations.

Course Code: INTA 303

Course Title: Interior Architecture Studio IV

ستوديو العمارة الداخلية ٤

### Hospitality spaces

With a medium-scale hospitality project, Interior Architecture Studio IV explores innovation through unique design solutions. Develop ergonomically correct indoor settings with associated design elements that improve the environment's utility while maintaining the intended feeling of style. Design and practice a line of furniture, accessories, and fixtures that cater to the needs of consumers. The course focuses on the psychological impact of light and color in interior design by exploring color theory and distinguishing the effects of color on human behavior

Course Code: INTA 325

Course Title: Furniture Design

تصميم الأثاث

Explore the various aspects of furniture design, such as conceptualization, development, detailing, and manufacturing. Analyze spatial requirements, user needs, and design objectives to develop creative furniture solutions that optimize form and function. Emphasize on ergonomics, aesthetics, function, material selection, construction, and manufacturing techniques.

Course Code: INTA 326

Course Title: Production Drawing

الإنتاج الرسومي

Explore the various aspects of furniture design, such as conceptualization, development, detailing, and manufacturing. Analyze spatial requirements, user needs, and design objectives to develop creative furniture solutions that optimize form and function. Emphasize on ergonomics, aesthetics, function, material selection, construction, and manufacturing techniques.



Course Code: INTA 327

Course Title: Design Thinking and Creativity

التفكير التصميمي والإبداعي

This course introduces students to the fundamental principles of Design Thinking and its application within the field of interior architecture. Students will explore creativity as a critical tool for problem-solving, innovation, and user-centered design. Emphasis will be placed on developing empathy, generating ideas, and applying iterative processes to create meaningful spaces. Through hands-on exercises, collaborative projects, and real-world scenarios, students will gain skills in brainstorming, prototyping, and testing, enhancing their ability to conceive and communicate interior spaces that meet functional and emotional needs.

Course Code: INTA 396

Course Title: Training for Interior Architecture

التدريب المهني للعمارة الداخلية

Provide industry-focused training in interior architecture, delivered directly within professional organizations. To explore core principles of spatial design, material selection, and user-centered solutions, emphasizing practical application in real-world settings

Course Code: INTA 401

Course Title: Interior Architecture Studio V

ستوديو العمارة الداخلية ٥

### Working spaces

Interior Architecture Studio V entails investigating the design of places of increasing scale and complexity, as articulated by the interaction of people and their work needs. Comprehend and design high-tech interior workplaces. Solve problems of designing interior settings that encourages employee creativity and productivity. Research and analyze organizational structure and activities that influence interior spaces, as well as plan for both individual and institutional demands.

Course Code: INTA 402

Course Title: Material and Quantity Surveying

المواد والكميات

Calculate and select materials. Explain the criteria for selection and calculation of finishes (durability, fire resistance, humidity resistance, heat storage, easy cleaning and maintenance, sound absorption and noise control, light reflection, prevention of air pollutants and mites). Wall finishes (brick and stone veneer, precast concrete, gypsum boards, ceramics, GRC, metals, wood, glass, plaster, paint), floor finishes (stone, ceramics, plastic tiling, wood parquet, terrazzo, carpeting), ceiling (plasters, paint, wood, suspended ceiling materials).

Course Code: INTA 403

Course Title: Interior Architecture Studio VI

ستوديو العمارة الداخلية ٦

### Exhibitions and Museum spaces

Interior Architecture Studio VI will focus on a Place/Time/Culture project to investigate cultural, physical, and temporal issues. Reflect on a growing understanding of how architecture, interior design, and decorative arts define a culture. Exhibit a higher level of intricacy articulated by the interplay of the individual with the local culture and its relation to global culture. The studio work entails the creation of a large-scale multi-functional, multi-spatial interior environment. Assess programs that require criticizing and analyzing locations, events, cultural and historical situations.

Course Code: INTA 421

Course Title: Research Methods

طرائق البحث

Recognize qualitative and quantitative research methods for interior architecture. Comprehend theoretical and practical research skills to plan and perform relevant scientific research. Identify research issues, choose the best research approach, acquire, and analyze data, write and present findings. Appraise writing, communication, and argumentation abilities to prepare students for Senior Project Research.

Course Code: INTA 404

Course Title: Design, Culture and Environment

التصميم، الثقافة والبيئة

Examine the interrelationship among culture, environment, and design; issues of sustainability, globalization, identity, culture, and human behavior are addressed as forces in the formation of contemporary interiors. Discuss and analyze local and international impact of culture and environment on building design.

Course Code: INTA 501

Course Title: Interior Architecture Studio VII

ستوديو العمارة الداخلية ٧

### Health care spaces

Interior Architecture Studio VII is an evidence-based design studio that tackles the difficulty of designing interiors for a large-scale multi-functional, multi-spatial healthcare spaces. Comprehend and investigate theories, techniques, and application of passive design strategies that improve interior environmental efficiency. Demonstrate and differentiate common interior healthcare design issues. Explore the design of daylighting, natural ventilation, and renewable energy.

Course Code: INTA 511

Course Title: Graduation: Programming Stage

تخرج: مرحلة البرمجة

Encompass theoretical design issues related to the graduation project. Research, identify, analyze, and criticize the followings: users' characteristics and needs, existing buildings, case studies, extensive programming, conceptual directions for the design, discussion of spatial qualities, color schemes, furniture, materials, and surface treatments, and a final report graphic presentation.

Course Code: INTA 512

Course Title: Design Project Management

إدارة مشاريع التصميم

Provide an overview of a principle-based approach to project management that fosters successful practices. It introduces performance domains that create an integrated system for effective project delivery and achieving desired outcomes. The course also covers how to tailor processes for individual projects. Additionally, it emphasizes commonly used models, methods, and artifacts that project teams can leverage to organize work, produce deliverables, and enhance communication and collaboration.

Course Code: INTA 502

Course Title: Graduation: Design Stage

تخرج: مرحلة التصميم

This course is about a comprehensive Interior Architecture project based on the design program developed in the Programming Stage; project presents a synthesis of information acquired during previous semesters. Exhibit student's abilities as a designer and his/her personal ideology and beliefs in relation to Interior Architecture.

Course Code: INTA 521

Course Title: Entrepreneurship

ريادة الأعمال

Recognize the entrepreneurial mindset and strategies to transform creative ideas into thriving commercial enterprises. Explore entrepreneurial concepts, evaluate real-world case studies, and create innovative, sustainable business models to drive growth in the interior design industry.

## ELECTIVES

Course Code: INTA 427

Course Title: Sustainable Design and Technology

موضوعات في التصميم المستدام والتقنية

Explain how to evaluate and communicate sustainable designs with tools and models that quantitatively link economic decisions with environmental impact. Evaluate existing technologies for sustainability and suggest design improvements that can make them more sustainable.

Course Code: INTA 428

Course Title: Lighting Design

تصميم الإضاءة

Explain lighting design systems in interior spaces, construct requirements legends, and fundamental control systems, as well as unique topics such decorative luminaires and energy efficiency. Distinguish the physical and psychological impact of lighting on color. Calculate mathematical the amount of natural and artificial illumination needed to suit specific standards and users' requirements. Recognize the impact of lighting on human behavior in interior space.

Course Code: INTA 429

Course Title: Textiles and Printing in Design

المنسوجات والطباعة

This course explores the role of textile and printing in interior architecture, focusing on their application in design, sustainability and cultural significance. Students will recognize how to design a space through fabrics, textures, and prints. Analyze and compose textile and printing as a versatile design tool. Value textile design as a field that transmits human feelings and stimulates five senses.

Course Code: INTA 514

Course Title: Service and UX Design

تصميم تجربة المستخدم

Explore the intersection of Service Design and User Experience (UX) Design. Analyze existing services, identify user needs, and co-create innovative solutions through a blend of theoretical frameworks and practical applications. Integrate methodologies from service and UX design to develop services that not only meet user needs but also elevate interactions and drive business success.

Course Code: INTA 515

Course Title: Marketing and Branding in Design

التسويق والعلامة التجارية في التصميم

Discover the concepts and tools important in successful marketing. Discuss the building blocks and principles of branding and marketing. Comply marketing strategies and Planning in real-life cases. Examine, explore, and create innovative marketing and branding strategies.

Course Code: INTA 516

Course Title: Product Development and Design

تصميم وتطوير المنتج

Introduce the principles and process of product design, focusing on user-centered design, ideation and prototyping. Engage in hands-on projects that integrate functionality, aesthetics and sustainability to develop sketching, 3D modelling and testing skills and create innovative solutions.

Course Code: INTA 523

Course Title: Interior Architectural Conservation

المحافظة على العمارة الداخلية

Provide students with the theoretical knowledge and practical skills necessary for the conservation and adaptive reuse of interior spaces, with an emphasis on preserving cultural heritage while adapting spaces for contemporary use. It will explore principles of architectural conservation, sustainable design, and interior interventions in historic buildings, considering environmental, social, and functional aspects. Students will examine how conservation theories and experimental practices have shaped new approaches in interior architecture and identify strategies for preservation and adaptive reuse in general and specific to Bahrain's context.

Course Code: INTA 524

Course Title: Special Issues in Interior Architecture

موضوعات خاصة في العمارة الداخلية

Flexible course in terms of topics in accordance with interests of faculty and students. Structured individually by instructors to provide special opportunities to explore specific topics in interior Architecture. Course topic subject to Program Council approval.

Course Code: INTA 525

Course Title: Digital Design and Innovation

التصميم الرقمي والابتكار

Explore trendy digital design technologies to upgrade the visuals of interior and architectural spaces. Develop computer skills and apply creative vision to a wide range of digital experiences.

## University Requirements Courses Descriptions

**Course Code:** ARAB 110

**Course Title:** Arabic Language Skills

This course focuses on basic Arabic skills including form, function, and meaning. It also helps the student to appreciate and understand structures and approach them from a critical point of view, through various genres in literature.

**Course Code:** HIST 122

**Course Title:** Modern History of Bahrain and Citizenship

Spatial identity of Bahrain: Brief history of Bahrain until the 18th century; the historical roots of the formation of the national identity of Bahrain since the 18th century; the modern state and evolution of constitutional life in Bahrain; the Arabic and Islamic dimensions of the identity of Bahrain; the core values of Bahrain's society and citizenship rights (legal, political, civil and economic); duties; responsibilities and community participation; economic change and development in Bahrain; Bahrain's Gulf, Arab and international relations.

**Course Code:** HRLC 107

**Course Title:** Human Rights Principles

This course deals with the principles of human rights in terms of the definition of human rights, scope, sources with a focus on the International Bill of Human Rights; The Charter of the United Nations; Universal Declaration of Human Rights; The International Covenant on Economics, Social and Culture rights; Convention against Torture and other Cruel, Inhuman or Degrading Treatment or Punishment; Mechanics and the Constitutional Protection of Rights and Public Freedoms in Kingdom of Bahrain.

**Course Code:** ISLM 101

**Course Title:** Islamic Culture

An introduction to the general outline and principles of Islamic culture, its general characteristics, its relationships with other cultures, general principles of Islam in beliefs, worship, legislation and ethics.

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## College Requirement Courses Descriptions

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Course Code: ENGL 101

Course Title: Communication Skills

This course focuses on reading skills and strategies and language development. The reading section concentrates on high-interest contemporary topics and encourages students to increase speed and efficiency. The writing component, integrated to the reading materials, reviews grammatical structures, develops language accuracy and introduces paragraph writing. Students are required to upgrade their grammar, reading, and listening skills on the internet.

Course Code: ENGL 242

Course Title: Report Writing and Presentation

This course offers theoretical and practical experience in technical report writing and presentation. It presents the steps involved in writing a report in detail and in presenting its findings. Presentation skills are also introduced. The emphasis throughout is upon tasks and assignments, the most important of which is the production of a full-length report and formally present it using power point.

Course Code: PHYCS 107

Course Title: Physics for Building Design

Fundamentals of heat transfer through building envelope: Air to air heat transmittance (U), internal and external surface conductance (h), thermal conductivities of building materials (k). Relationships between interior finishing materials and (U) values. Nature of light, light transmission, reflection, and absorption. Basic properties of light (photometric quantities): Light intensity (I), luminous flux (lx), illumination level (E), luminance (L). Photometric laws: Abney's law, inverse square law, cosine law. Nature of sound: Audible sounds. Sound quantities: Sound intensity level (I) and sound pressure level (p). Sound reflection and absorption in enclosed spaces. Reverberant sound and reverberation time (RT). Sound transmissions through partitions and building envelope. Sound reduction index.

Course Code: MATHS 106

Course Title: Mathematics and Trigonometry

Introduction to geometry, trigonometry, and the applications of these for the design of shapes and surfaces. Vectors in two and three dimensions. Fractal geometry. History and applications of mathematics in design and architecture.