

B.Sc. in Urban Planning Study Plan

University Compulsory Courses 16 C.H

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University Elective Courses 9 C.H

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Faculty Compulsory Courses 29 C.H

Line No.	Code	Course	
901010	MATH101	CALCULUS(I)	3
921010	PHY101	GENERAL PHYSICS (1)	3
2211010	ARCH101	ARCHITECTURAL DRAFTING	3
2211020	ARCH102	VISUAL COMMUNICATION (1)	3
2211110	ARCH111	BASIC DESIGN (1)	3
2211120	ARCH112	BASIC DESIGN (2)	3
2212010	ARCH201	COMPUTER AIDED DESIGN (1)	3
2212020	ARCH202	VISUAL COMMUNICATION (2)	3
2213010	ARCH301	TECHNICAL WRITING AND VERBAL COMMUNICATION	2
2213430	ARCH343	SURVEYING	3

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Line No.	Code	Course	
2212110	ARCH211	ARCHITECTURAL DESIGN (1)	5
2212120	ARCH212	ARCHITECTURAL DESIGN (2)	5
2214813	ARCH481	HUMAN BEHAVIOR IN BUILT ENVIRONMENTS	3
2222020	URP202	INTRODUCTION TO URBAN PLANNING	3
2222220	URP222	LANDSCAPE ARCHITECTURE	3
2222310	URP231	HISTORY OF TOWN PLANNING	3
2222420	URP242	SUSTAINABLE DEVEL DEVELOPMENT	3
2222610	URP261	BUILDING CONSTRUCTION	3
2223010	URP301	URBAN PLANNING STUDIO (1)	4
2223020	URP302	URBAN PLANNING STUDIO (2)	4
2223030	URP303	THEORIES AND METHODS OF URBAN PLANNING	3
2223110	URP311	URBAN DESIGN	3
2223410	URP341	URBAN SOCIOLOGY AND COMMUNIT DEVELOPMENT	3
2223520	URP352	URBAN INFRASTRUCTURE	3
2223810	URP381	STATISTICS	3
2223820	URP382	URBAN ECONOMICS	3
2224010	URP401	URBAN PLANNING STUDIO (3)	4
2224120	URP412	URBAN DESIGN STUDIO (1)	3
2224320	URP432	PLANNING AND MANAGEMENT OF CONSERVATION AREAS	3
2224510	URP451	TRANSPORTATION (1)	3
2224520	URP452	TRANSPOTATION (2)	3
2224610	URP461	GEOGRAPHIC INFORMATION SYSTES (1)	3
2224620	URP462	GEOGRAPHIC INFORMATION SYSTEMS (2)	3
2224710	URP471	PLANNING LAW	3
2224820	URP482	REGIONAL PLANNING (1)	3
2224910	URP491	URBAN PLANNING TRAINNG	3
2225110	URP511	URBAN DESIGN STUDIO (2)	3
2225410	URP541	HOUSING	3

2225720	URP572	PROFESSIONAL URBAN PLANNING PRACTICE	2
2225910	URP591	URBAN PLANNING GRADUATION PROJECT (1)	2
2225920	URP592	URBAN PLANNING GRADUATION PROJECT (2)	5

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Line No.	Code	Course	
2215723	ARCH572	PROJECT MANAGEMENT	2
2225030	URP503	PLANNING MODELS	2
2225120	URP512	MORPHOLOGY OF URBAN FROM	2
2225230	URP523	THE DESIGN OF URBAN RECEATION AREAS	2
2225260	URP526	TOWNSCAPE	2
2225280	URP528	THE LANSCAPE OF PARKS AND GREENWAYS	2
2225310	URP531	URBAN ECOLOGY	2
2225420	URP542	URBANIZATION IN CONTEMPORARY JORDANIAN AND ARAB COUNTRIES	2
2225510	URP551	URBAN GEGRAPHY	2
2225610	URP561	COMPUTER ADIDED DESIGN (2)	2
2225620	URP562	DIGITAL VISUAALIZATION GEOGRAPHIC IN FORMATION	2
2225630	URP563	SYSTEMS &REMOTE SENSING	2
2225810	URP581	MICRO ECONOMICS	2
2225820	URP582	REGIONAL PLANNING (2)	2
2225950	URP595	SPECIAL TOPICS IN URBAN PLANNING (A)	3
2225951	URP595	SPECIAL TOPICS IN URBAN PLANNING (B)	2
2225952	URP595	SPECIAL TOPICS IN URBAN PLANNING (C)	1

TOTAL 160 C.H

*** For prerequisite & equivalent courses see
the Courses' Description.**

B.Sc. in Urban Planning

Courses' Description

Urp 202 Introduction To Urban Planning 3 C.H

Courses' Description The main and basic element of urban planning are defined in the conceptual, hierarchical and contextual levels. Also, the nature of planning as a process of interrelated stages should be emphasized and other elements including land use, population, socio-economic and environmental issues are introduced in this basic elementary course.

Urp 222 Landscape Architecture 3 C.H

Courses' Description This course is comprised of both lecture classes and design problems. The lecture material should cover: an introduction to landscape architecture as a discipline; theoretical views of landscape architecture; review of selected historical markers; review of renowned landscape architects; survey of landscaping plants focusing on plants of the region; plant as a design material; and principles of space design. Within the design studio, students should design 2-3 projects ranging in size and functions in order to acquire fundamental training and experience in landscape and plant design. This class is equal to Arch 341 (Landscape Architecture).

Urp 231 History of Town Planning 3 C.H

Courses' Description Studying the informal evolution of urban planning through the practices of old and classical civilizations; Jericho, Mesopotamia, old Egyptian, Greek and Roman to arrange the distribution of activities and uses. Renaissance era's contribution on city planning, the recent history of planning by the industrial revolution and its impact on the city, the country and the regions, emphasis on the accelerated development of urban planning by the 20th century and the evolution of modern town planning and approaches which played a major role in the recent theories of urban planning nowadays.

Urp 242 Sustainable Development 3 C.H

Courses' Description Introduction to the concept of sustainable environment, its definitions, elements, aspects and principles. Defining the multi level forces that create the concept of sustainable planning and architecture; ecological factors, green concepts, social and economical parameters, the role of sustainable development in real planning practices and intervention through case studies analysis.

Urp 261 Building Construction 3 C.H

Courses' Description The course covers the issues of building construction in order to strength students skills in the major construction applications; materials and their major characteristics ,basic uses and implementation, the major construction systems and their requirements, soil investigation, bearing walls, post and beam systems, major skeleton works and their applications.

Urp 301 Urban Planning Studio I 4 C.H

Courses' Description This studio is an introductory course focusing on the analysis, content and spatial distribution of land use through practical local case studies to study and understand the formulation of urban areas in qualitative, quantitative and spatial contexts. The outcomes should serve as basis for the forthcoming planning studios.

Urp 302 Urban Planning Studio II 4 C.H

Courses' Description This studio course covers the future urban change of the city as a dynamic entity. This should take the form of physical, demographic, economic, social and environmental analysis arriving at the most optimal spatial growth of the study area based on estimation and forecasting assessments of qualitative and quantitative requirements.

Urp 303 Theories and Methods of Urban Planning 3 C.H

Courses' Description Examines the theories and techniques related to urban planning. Earlier and recent theories of land use distribution, system operation and change and city form should be explored. Also examining the uses and concepts of different quantitative and qualitative methods and techniques for the plan formation, analysis, forecasting and evaluation stages of the urban planning process.

Urp 311 Urban Design 3 C.H

Courses' Description Introducing the concept of urban design as a moderator between architecture and planning, discussing its history, elements and principles, the evolution of urban design in the 50's of the 20th century and its impact on the cityscape and development. The course covers the current trends and theories, strategies and levels of intervention; development, redevelopment, infill on different scales varied from the city center to the city as a whole.

Urp 341 Urban Sociology and Community Development 3 C.H

Courses' Description The course examines the structure, processes, changes and problems of urban areas including migration, poverty and welfare, economic trend, group relations, social life and how urban settings directly impacts the social interaction. The course also focuses on social groups and communities in whom people act to achieve various interests and goals. The course provides sociological input for planning, design and policy making; and introduces basics of community development.

Urp 352 Urban Infrastructure 3 C.H

Courses' Description The study and planning of urban infrastructure in terms of physical infrastructure including the required services such as water supply, electricity and sewage networks and social infrastructure including the necessary amenities and facilities such as educational, recreational and retailing. The courses also introduce the students in addition to the planning side of the provision of these services to the required standards and the evaluation of environmental Impacts of urban growth.

Urp 381 Statistics 3 C.H

Courses' Description An integrated course enables the students to understand and learn basic elements of descriptive and inferential statistics such as; sampling techniques, methods of data collection, analysis of time series data, display and presentation of statistical data in addition to the methods of hypothesis and significance tests, correlation linear regression, analysis of variance and the basic concept of probability.

Urp 382 Urban Economics 3 C.H

Courses' Description Exposes students to the importance and role of market forces in the development of cities. This takes the examination of different aspects such as the economics of land use patterns and locations, transportation, housing, land rent, public sector and

local government accounts, urban labor market, city size and urban problems in terms of crimes and poverty.

Urp 401 Urban Planning Studio III 4 C.H

Courses' Description This studio guides students to assess and arrive at the required future form and land use distribution of the study area. This future formulation could take the form of proposed generalized master plan or structure plan. It is expected that students will employ the standards, concepts and techniques acquired earlier with regards to recent theories of city form, sustainability and optimization to arrive at the best decisions.

Urp 412 Urban Design Studio I 3 C.H

Courses' Description Applications on urban design concepts and strategies, concentrating on urban design problems in locations in need for regeneration, infill or redevelopment, particularly inner city parts or other deteriorated districts with regards to their environmental and socio-economic standards where actions in the form of design strategies and plans are required.

Urp 432 Planning and Management of Conservation Areas 3 C.H

Courses' Description The class covers the latest notions of planning for urban historical centers and sites integrating heritage theory, sustainability, and revitalization. It investigates approaches to planning and sustainable conservation of urban heritage resources and examines the principles of sustainability, covering social, cultural, economic, and environmental challenges of planning: such as social equity, development, heritage management, revitalization, gentrification, and environmental effects. The course introduces the students to professional tools such as urban revitalization planning. Conversation Management Plans and sustainable heritage conservation systems. Students are required to apply their learned skills on a local case study in Jordan or the region.

Urp 451 Transportation I 3 C.H

Courses' Description The course introduces the students to the elements and requirements of traffic engineering and management which should cover road highway design, parking requirement, road hierarchy and functions, public and private transportation systems road safety environmental protection and enhancement, urban traffic control and traffic consideration for new development in different land uses .

Urp 452 Transportation II 3 C.H

Courses' Description This course examines the transportation planning process and its development in which recognizes the interrelationships between urban land use and transportation. The process begins with the stage of data collection and ends with evaluation and implementing the best attractive transportation proposal. The students are expected to understand the nature, element, and methods of estimations of the transportation demand and how this is fulfilled and related to comprehensive urban planning.

Urp 461 Geographic Information Systems I 3 C.H

Courses' Description This course provides an introduction to Geographic Information Systems (GIS) and related technologies. It introduces students to the major principles and concepts pertinent to utilizing those systems in a variety of urban planning projects. The course covers basic principles and concepts of GIS, theory and tools of spatial analysis, and broad exposure to GIS applications. Contents include map visualization, nature of spatial data, data sources and acquisitions,

spatial analysis and models, presentation of output and reports. The Course exposes students to wide-spread GIS software (ESRI Arch GIS) and provides hands-on practice in basic GIS functionalities.

Urp 462 Geographic Information Systems II 3 C.H

Courses' Description This course builds on the basic GIS knowledge and covers additional GIS and related technologies such as remote sensing and Global Positioning System (GPS). The objectives of the course are to provide spatial information and analysis capabilities for urban planners and those in related disciplines. The course will cover advanced principles and concepts of GIS, theory and tools of spatial analysis with a focused exposure to GIS applications. The course provides hands-on practice in applications of GIS in urban planning.

Urp 471 Planning Law 3 C.H

Courses' Description The course presents an overview of the various laws and regulations most pertinent to the planning practice and the limitations on local agencies. Also, an account of local administration and organizations and the powers and responsibilities they have on the planning process is introduced. The course, in addition, examines other urban planning laws and regulations from other experiences.

Urp 482 Regional Planning I 3 C.H

Courses' Description The course discusses the necessity of regional planning and its impact on creating well distributed services, benefits and balanced regional development. The principles of regional planning and the parallel factors of social, economical, administrative and legislative aspects are considered. The course discusses the interrelationship between national planning, urban planning and regional planning, and the main theories of regional growth models.

Urp 491 Urban Planning Training 3 C.H

Courses' Description Training introduces and incorporates students in real planning specialized firms and organizations, in order to bridge and facilitate their academic background in real planning projects with varied scales and scopes. Students are to train for 8 weeks in accredited firms and organization accredited firms.

Urp 511 Urban design studio II 3 C.H

Courses' Description Focusing on the design and redevelopment of residential areas by applying the theoretical concepts and thoughts of the neighborhood idea and its recent developments, sustainability, new urbanism and other contemporary urban design theories to arrive at an integrated design solutions of particular case studies taking into account the provision of necessary urban infill interventions, provision of amenities, safety circulation, legibility, landscaping and other environmental and design requirements.

Urp 541 Housing 3 C.H

Courses' Description Introduction to the different aspects of urban housing, mainly those related to the physical and policy issues such as; housing types, standards and densities, affordable housing needs, the effect of housing policies and market forces, basic lay out design principles and neighborhood amenities.

Urp 572 Professional Urban Planning Practice 2 C.H

Courses' Description Introduction to the planning profession, in terms of market demand and planners

duties and responsibilities. Analysis of the relationship between the planners and client. Emphasis on the principles of ethics of the profession.

Urp 591 Urban Planning Graduation Project I 2 C.H

Courses' Description Stimulating students towards various practical approaches in choosing planning project topics. Orientation of student to adapt and conduct total methodology in programming project requirements, goals and objectives, the analysis and alternatives and the continuous evaluation of various factors of urban planning consideration philosophy of project, and upgrading of students ability of technical writing.

Urp 592 Urban Planning Graduation Project II 5 C.H

Courses' Description Presentation of final planning work and requirements for the graduation project. The adaptation and development of planning and design concept and the final development stage is accomplished in coordination with student supervisor. The projects require concentration on planning, design and environmental integrated solutions.

Arch 572 project Management 2 C.H

Courses' Description Introduces the basic and advanced concepts of running design projects. Explores the whole project phases and processing, analyzing them in detail under the project management concept of delivering projects, "on time, on budget, every time."

Urp 503 planning Models 2 C.H

Courses' Description Examines the concepts, prosperities and uses of urban planning models in the quantitative and the qualitative levels, particularly linear models, spatial interaction gravity models, and optimization linear programming models. Practical case study application and students' assignments should be introduced in association with the theoretical side of the course

Urp 512 Morphology Of Urban Form 2 C.H

Courses' Description Examination and analysis of the structure and form of towns and cities as to their urban fabric, street pattern, densities and land uses which entails focusing on the form and contain of urban structure as in its cultural and socio-economic context.

Urp 523 The Design Of Urban Recreation Areas 2 C.H

Courses' Description Special studies in metropolitan, urban, and neighborhood recreation areas; the design, policies, and behavioral studies of existing parks, public places, and commercial areas. It concentrates on developing urban and recreational areas.

Urp 526 Townscape 2 C.H

Courses' Description Studying and analyzing towns and cities as an urban scene, concentrating on; firstly visual studies including studies of urban space, architecture and secondly; permeability of the environment and the choice of access it presents to the user and thirdly; the legibility of the urban structure and the way people perceive and react to the environment.

Urp 528 The Landscape Of Parks and Greenways 2 C.H

Courses' Description The course concentrates on six interdependent "human dimensions" of parks and greenways: cleanliness, naturalness, aesthetics, safety,

access, and appropriateness of development. Together, these dimensions form a core set of concerns relating to how people perceive and use such places for recreation, conversation, social interface, and other related experiences.

Urp 531 Urban Ecology 2 C.H

Courses' Description Examines cities as natural systems, combining ecological analyses with historical, anthropological, and sociological studies of the urban nature. Addresses sociological sustainability, growth management, biodiversity, ecology of parks, zoos and aquariums, environmental justice. Required field trip.

Urp 542 Urbanization In Contemporary Jordanian and Arab Countries 2 C.H

Courses' Description This course focuses on contemporary Jordanian and Arab culture linked issues related to urbanization as a significant concept. It involves the study of various urbanization aspects such as: the city, jobs and professions in urban societies, family and social life, women and their role in the society, religion, and the civil society. It focuses on these aspects as they affect urbanization concept and the signs and symbols of representation in urbanization. Theories of sociology, anthropology, and planning, in social life are incorporated in the class material.

Urp 551 Urban Geography 2 C.H

Courses' Description Analyzing cities as systems, to understand how factors interact over space, and what function they serve and their interrelationships. Also to look at the development of settlement to understand the human and environmental impacts of urban change, and spatial distribution of cities and their inner city structure.

Urp 561 Computer Aided Design 2 2 C.H

Courses' Description Systematically applies CAD system to the different phases of planning: pre-design, design & construction documents. Focuses on data exchange between different software including the extraction of volumetric data and transfer them to spreadsheet and / or database management software, rendering software, post-rendering work in pixel-editing software, animated walkthroughs in motion-supporting software .Presentation and training focuses on advanced AutoCAD, Photoshop & 3DMax software, with the intent to develop basic familiarity and proficiency with the digital rendering and multi-media techniques. Highlights motion & animation enchantment to architectural presentations.

Urp 562 Digital Visualization 2 C.H

Courses' Description Introduces students to visualization tools that have been developed and applied in the environmental disciplines to facilities better land use planning decisions. Through land use hands-on exercises, students will learn Arch GIS 3D Analyst, Geo database, and Community Viz. Guest lectures will be incorporated to expose student to actual urban simulation projects.

Urp 563 Geographic Information Systems and Remote Sensing 2 C.H

Courses' Description This course is oriented to students that are interested in more advanced applications of GIS and remote sensing in urban planning. The course covers the following topics: spatial metrics and geostatic in urban planning, identifying spatial characteristics of sprawl at the building-unite level, urban socio-economic analysis, molding sustainable urban growth management, place -based urban vulnerability analysis.

Urp 581 Micro Economics 2 C.H

Courses' Description The course examines the behavior of small economic units, such as individual consumers or households. It analyses the market behavior of those households and attempt to understand the decision-making process and the factors that influence the demand and supply of goods and services particularly in individual markets such as; the housing market, the retailing market, and the urban employment market.

Urp 582 Regional Planning II 2 C.H

Courses' Description Concentrates on the theories and techniques of regional planning including input-output models, the attraction model, economic impact analysis, shift-share analysis, regional econometric models, optimization and evaluation models of the effect of regional policies on regional growth, prosperity, equality and the environment.

Urp 595A special topics in urban planning 3 C.H

Courses' Description Special topics in urban planning (3CH or 2CH or 1CH)

Urp 595 B special topics in urban planning 2 C.H

Courses' Description Special topics in urban planning (3CH or 2CH or 1CH)

Urp 595 C special topics in urban planning 1 C.H

Courses' Description Special topics in urban planning (3CH or 2CH or 1CH)