Biology (0200100)	The course of biology is designed to give knowledge of the basic processes of life; function of components of eukaryotic cells, structure of bimolecular, structure and function of proteins, membranes and, the role of enzymes. The course helps the students to understand cell signaling, DNA replication, protein synthesis and, biotechnology techniques.
Chemistry (0201100)	The course presents fundamentals of certain topics in chemistry which includes basic knowledge of the atom, the electronic structure and configuration of various atoms. It also describes the importance of the periodic table and chemical bonding. The course details the importance of acids and bases, solutions and solubility. The course also includes topics on gases and thermochemistry
Physiology (0200220)	This course covers cell physiology, molecular aspects of cell biology, and the functions of major body systems: integumentary, muscular skeletal, cardiovascular, lymphatic, respiratory, digestive, nervous, endocrine, urinary, and reproductive systems, body fluid and electrolytes, along with homeostatic mechanism maintaining normal function of the body, with demonstrations of relevant measurements
Pharmaceutical Analytical Chemistry (0201120)	This course covers preparation of solutions, indicators for determining end points, potentiometric determination of end points, acid base reactions, precipitation reactions, redox reactions, complexation reactions, acid base reactions, nonaqueous solvents, gravimetric analysis, spectrometry, geometric analysis, volumetric measurements, optic rotation, specific gravity as methods for analysis of drugs.
Pharmaceutical Organic Chemistry-1 (0201210)	This course presents the fundamentals of certain topics in organic chemistry. It covers some important areas in organic chemistry, which includes aliphatic hydrocarbons, alkyl halides, alcohols, ethers and epoxides., aldehydes, ketones, carboxylic acids and their derivatives, and amines. It emphasizes on the pharmaceutical importance of these functional groups. The pharmaceutical organic chemistry course is aimed to present the highlights of organic chemistry and its applications in a brief and suitable manner relation to the pharmaceutical field of study
Biochemistry (0201240)	This course covers chemistry of proteins, lipids, carbohydrates and DNA, enzymolgy, bioenergetics, and metabolic pathways of energy utilization, mitochondrial respiration and oxidative phosphorylation, active transport, phosphate pathway and Krebs cycle, nucleic acid metabolism including DNA replication and repair, RNA and protein synthesis, recombinant and DNA technology, carbohydrates, fats, amino acids, and hormones metabolism
Fundamentals of Nutrition (0701120)	This course is a preface to food and nutrition as a healthy life style component as well as acknowledges the student about the basic principles of essential nutrients, including, their sources, absorption, functions, and their requirements. Issues of food safety as part of nutritional concern will also be exposed.

Nutrition Life Span (0701220)	Principles of nutrition applied to meeting dietary needs of individuals throughout their life cycle. Study of relationship among nutrition, growth, development, and maturity with emphasis on physical and psychosocial considerations affecting food intake
Food Microbiology (0701240)	This course covers advances in several areas of food processing technologies as well as HACCP implementation for ensuring the safety of the food supply. The course will provide knowledge on the effects and significance of the presence and growth of microorganisms in foods. Students will understand the relationship of microorganisms to food safety and quality, food borne illness and intoxication and food preservation and bioprocessing. It will identify the major microbes involved in foodborne illnesses.
Nutrition & Metabolism (0701225)	Nutrition is intimately linked with body metabolism. The goal of this course is to give you an understanding of what the body does with the food we eat. We begin with a detailed study of enzymes including the importance of vitamins and minerals. We then examine metabolic reactions used to obtain energy from carbohydrates, protein and fat as well as reactions used to rid our body o wastes such as urea and uric acid. The key role of the liver in metabolism will be emphasized throughout the course. Other topics will include digestive hormones, production of lactic acid, lipid carriers and the effects of low carbohydrate diets, including the effect on
	insulin/glucagon ratio, gluconeogenesis, ketosis and more.
Pharmacology for Dietitians (0701223)	This course provides an integrated approach to the biochemical functions and nutritional metabolism and drug-nutrient interactions of fat- soluble and water- soluble vitamins. The course will emphasize on the comprehensive study of terms used by health care practitioners to describe laboratory, radiology, pathology procedures and pharmacological products by body systems. Other topics covered are, pharmacokinetics, pharmacodynamics, bioavailability and biotransformation of drugs, drug-nutrient interactions of antibiotics, antiviral drugs, IV and TPN fluids, anesthetics, anti-histamine, autonomic, cardiovascular, central nervous system.
Basics of Food Science (0701223)	The fundamental biological, chemical and physical scientific principles associated with the study of foods; topics include food composition and nutrition, food additives and regulations, food safety and toxicology, food processing, food engineering, food biotechnology, product development and sensory evaluation
Food Production & Preparation (0701224)	An introduction to the basic technologies applied to preserve and process of food. Principles and methods of the different food processing technologies, and the chemical, physical, and sensory requirements needed in processed foods as well as the role of processing technology as it applies to different categories of food products will be covered
Nutrition in Inborn Errors of Metabolism (0701322)	This course introduces the most commonly encountered inborn errors of metabolism that have nutritional implications. The course will give insight on nutrition in critical care. It will highlight clinical presentation, diagnosis and treatment; mainly, medical nutrition therapy based on evidence, previous and current research

Dietitian Job Shadowing The (701443) from pro- pro- pro- pro- pro- pro- pro- pro-	he course will cover the science and chemistry of food as related to storage and rocessing of major food commodities including meats and poultry, seafood, fruits and egetables, cereal grains and baked goods, eggs, dairy, and confectionaries. he course will provide experience beyond the classroom and help students transition rom classroom learning to professional application. Students are going to observe a racticing dietitian in the various setting of dietetics to include clinical, community and bood service management he course provides a survey of data and data types. Specific topics include tools for escribing central tendency and variability in data; methods for performing inference on
(701443) from professions from professio	rom classroom learning to professional application. Students are going to observe a racticing dietitian in the various setting of dietetics to include clinical, community and bood service management he course provides a survey of data and data types. Specific topics include tools for
Methods (0701325) de po	·
	opulation means and proportions via sample data; statistical hypothesis testing and its polication to group comparisons; issues of power and sample size in study designs; and andom sample and other study types
(0701323) car sys dif ass lab ass pa a)	his course provides an introduction for the nutritional assessment as part of nutrition are process. It orients the students to the basic aspects of nutritional assessment ystems. It emphasizes on the theoretical knowledge and practical skills regarding ifferent aspects of nutritional assessment: anthropometric, laboratory, clinical, dietary sessments and includes an evaluation of their strengths and limitations. The aboratory sessions utilize active application of tools and techniques used for sessment of nutritional status that is specific for the individualized care of atients/clients. These laboratory-based sessions will include (a) nutritional assessment via dietary, biochemical and anthropometric methods, (b) statistical analysis & interpretation of dietary assessment and c) clinical examination of a patient.
Communication in The Nutrition (0701324) to be the of nu wil add	he course will cover communication, behavioral, and counseling theories as they relate on nutrition counseling. Emphasis on development of skills to promote healthy eating ehaviors. Examination of eating disorders and obesity, including preventative and nerapeutic interventions. The course aims at developing knowledge and understanding f health behavior and learning theories and practices in order to plan and produce utrition education programs or communication messages, tools and techniques that will contribute to preventing diet-related diseases and promoting health. This course will ddress nutrition communication and education theories applied to individuals and roups.
Management (0701326) de inc	n overview of the foodservice industry including quantity food production and service, esigning physical facilities and administration of foodservice facilities. Topics covered include food and worker safety, menu planning, purchasing, receiving, storage, roduction, assembly, distribution, service, facility design and equipment, management unctions, and financial principles

Medical Nutrition Therapy I (0701327)

The course provides detailed information on the role of nutrition in the prevention and treatment of disease. This course covers conditions most seen in dietetic clinics; obesity, diabetes, cardiovascular, upper and lower gastrointestinal, hepatobiliary, pancreatic, endocrine and exocrine diseases. The disease process, related biochemical issues, nutritional assessment, medical nutrition therapy and food and fluid issues are discussed in details for each disease. The practical component will focus on utilizing the nutrition care process to assist in understanding evidence-based assessment practices, diagnosis of nutrition- related problems, the physiology and nutrition interventions for specific diseases and disorders during the acute and chronic setting including nutrition support options, and appropriate monitoring and evaluation techniques during follow up. The diseases and disorders that will be focused on, but not limited to, are inborn errors of metabolism and hyper metabolism in the acute and chronic setting including nutrition support options.

Community Nutrition (0701328)

This course will examine the role of nutrition in promoting, maintain and improving health in the community. The course includes an introduction to public health nutrition, food programs, and national nutrition monitoring. It investigates traditional aspects of the emerging health delivery system, as well as entrepreneurial ventures. During the course, students will study the effects of socioeconomic statuses, cultural, legislative, political, scientific and psychological factors on public food choices and community health nutrition. Students will learn how to target populations, deliver effective nutrition interventions in the community and perform a community-based needs assessment. Learning of principles related to nutrition education, program planning, and outcome evaluations will be also discussed.

Menu planning (0701329) This course encompasses the principles and techniques of menu planning for healthy persons. Topics include nutrient needs for optimum health, dietary guidelines, food groups, food portion sizes, and the use of exchange lists for meal planning and client nutrition education in both the English and Arabic languages. In this course, students will master the process of translating the nutrition needs of individuals and groups into food choices and selected menus composed of international, local and Middle Eastern foods.

Food Quality & Safety (0701330)

Introduction to food safety from farm-to-fork. Topics include good agricultural practices, good manufacturing practices, food safety regulations, and an overview of Hazard Analysis Critical Control Point (HACCP). Emphasis on control of biological, chemical, and physical hazards to assure food safety

Medical Nutrition Therapy II (0701427)	The course provides detailed information on the role of nutrition in the prevention and treatment of disease. This course covers conditions most seen in dietetic clinics; renal, hematological, neurological, pulmonary, metabolic stress, neoplastic diseases and AIDS. The disease process, related biochemical issues, nutritional assessment, medical nutrition therapy and food and fluid issues are discussed in details for each disease. The practical component will focus on utilizing the nutrition care process to assist in understanding evidence-based assessment practices, diagnosis of nutrition-related problems, the physiology and nutrition interventions for specific diseases and disorders during the acute and chronic setting including nutrition support options, and appropriate monitoring and evaluation techniques during follow up. The diseases and disorders that will be focused on, but not limited to, are inborn errors of metabolism, oncology, and hyper metabolism in the acute and chronic setting including nutrition support options.
Sports and Fitness Nutrition (0701420)	The main focus of this course is to identify and understand the role of nutrition in fitness and sports. The contents are focused on where nutrition can help maximize muscle strength, endurance, and flexibility; through building muscle and reducing fat. Techniques for guiding athletes in proper nutrition in training, and effective methods to prevent dehydration and sports related injuries due to insufficient nutrient levels will be delivered. Real case studies are examined, exploring leading methods & techniques in optimizing sports performance with proper nutrition.
Ethics for Healthcare Professionals (0701221)	The course will cover an overview of the history of ethics, Blanchard & Peale's 3-step model, ecological model, approaches to ethics, applying ethics to the healthcare professionals, confidentiality, medical records, patients' rights and liability in healthcare system.
Alternative Food & Herbal Therapy (0701421)	The course content provides students with information about food, botanical or herbal products that allow them to make judgments about clinical effectiveness and potential for adverse consequences in patients. The course explores the various aspects of food, herbs and dietary supplements as part of Complementary, Alternative, and Integrative therapy; and further gives an insight into aspects related to their safety and efficacy. The course includes a variety of in-class activities (lectures and discussions) and active learning via case studies and literature survey of current research.
Topics in Dietetics Practice (0701422)	This is a variable-content course. The course explores advanced and hot topics in the areas of nutrition, foods, exercise or health, using higher- order thinking and problem-solving skills. Qualitatively and quantitatively, the course assesses current facts supported by scientific literature, as well as controversial issues with conflicting data.

Capstone Course	This capstone course equips students with the skills required to use their curriculum-
(0701490)	based culminating experience (knowledge, behaviors and skills) in examination of the scientific methods and evidencebased guidelines and protocols and their application to the study of nutrition- based research questions and clinical practice issues - including standards of responsible research conduct and evidence-based practice. Students will develop an understanding of how to conduct a project beginning with the conception of ideas and concluding with depicting written results and discussing them, along with proper citations. The course helps students combine, apply, and practice nutrition/food science knowledge skills acquired throughout their undergraduate courses and to compile a comprehensive report including a literature review, methodology, results, discussions and conclusions.
Health Promotion for Dietitians (0701321)	The course will give students a working knowledge of health promotion concepts and methods and their application to health and health behaviors, with a special emphasis on the philosophical and theoretical foundations of health promotion. Also, it identifies and discusses the innovative health campaigns, strategies, and policies being implemented and enacted to improve health behaviors and practices that ultimately improve quality of life
Community Practicum (0701340)	Students will spend 3 weeks of a total of 120 contact hours under the supervision of a qualified and experienced food and nutrition professional in the community setting.
Dietetic Practicum I in Clinical Setting 1 (0701440)	Students will spend 3 weeks of a total of 120 contact hours of supervised dietetic practice. The program provides interdisciplinary practicum that will prepare students to attain entry-level competencies in nutrition therapy
Dietetic Practicum II in Clinical Setting 2 (0701441)	Students will spend 3 weeks of a total of 120 contact hours of supervised dietetic practice. The program provides interdisciplinary practicum that will prepare students to attain entry-level competencies in nutrition therapy.
Dietetic Practicum III in Clinical Setting 3 (0701442)	Students will spend 4 weeks of a total of 160 contact hours of supervised dietetic practice. The program provides interdisciplinary practicum that will prepare students to attain entry-level competencies in nutrition therapy.