Suggested DPD Curriculum for 129 Credits and Course Descriptions

CURRICULUM FOR BACHELOR OF SCIENCE IN HUMAN SCIENCES NUTRITION AND DIETETICS (NON-TEACHING)								
FALL SEMESTER					**SPRING SEMESTER**			
FRESHMAN YEAR								
English Composition I	ENGL	1311	3		English Composition II	ENGL	1321	3
Principles of Biology	BIOL	1455	4		College Algebra	MATH	1330	3
General Chemistry I	CHEM	1430	4		General Chemistry II	CHEM	1440	4
Orientation Human Sci.	HUSC	1102	1		Principles of Econ. I	ECON	2310	3
Personal & Social Devt.	BAS	1210	2		Personal Health & Safety	HLPE	1310	3
Humanities Elective	HUMN		3		Career & Life Planning	BAS	1120	1
			17		Physical Education	HLPE	1110/1121	1
								18
SOPHOMORE YEAR								
Human Anat. & Physio. I	BIOL	2451	4		Human Anat. & Physio. II	BIOL	2452	4
Literature Elect.	ENGL		3		Organic Chemistry	CHEM	2411	4
Food Prin. & Mgmt	HUSC	1412	4		Elementary Nutrition	HUSC	2321	3
General Psychology	PSYC	2300	3		Quant. Food Production	HUSC	2433	4
American Government	PSCI	2312	3		Oral Communication	SPCH	2390	3
Physical Education	HLPE	1110/1121	1					18
			18					
JUNIOR YEAR								
Biochemistry	CHEM	3412	4		Food Serv. Sys. Mgmt	HUSC	3311	3
Microbiology	BIOL	3470	4		Advanced Nutrition	HUSC	3331	3
Nutrition thru the Life Cycle	HUSC	3326	3		Biostatistics	AGRI	3351	OR
Principles of Accounting I	ACCT	2311	3		Intro to Statistics	MATH	2370	3
Microcomputer Appl.	MIS	1312	3		Family Development	HUSC	2300	3
			17		Humanities Elective	HUMN		3
								15
SENIOR YEAR								
Elementary Spanish	MDFL	2311	3		Senior Seminar	HUSC	4202	2
Human Sciences Res.	HUSC	4399	3		Methods Teaching Hu Sc	HUSC	4301	3
Community Nutrition	HUSC	4330	3		Exptl. Food Science	HUSC	3420	4
Med Nutrition Therapy I	HUSC	4431	4		Med Nutrition Therapy II	HUSC	4441	4
			13					13

Total Credits 129

ACCT 2311: Principles of Accounting I (3 credits)
A comprehensive introduction to basic financial accounting. Recording, summarizing and reporting principles of income measurement, asset valuation, accounting systems and controls.

AGRI 3351 Biostatistics (3 credits)
Covers statistical theory through practical examples rather than mathematical proofs. The materials covered include computations, applications, and interpretations of statistical procedures commonly used in the biological sciences.
Lecture: 3 hours per week.
Prerequisites: College Algebra Math 1330.

BAS 1120 Career and Life Planning (1 credit)
Career and Life Planning is a course designed to provide experiences to help individuals develop skills and strategies in making sound career related decisions based upon personal interests, skills, abilities, and values. Emphasis will be placed on self-assessment, the investigation of career materials and resources, decision-making relative to academic majors, career selection, career planning, and the use of technology in career planning and career exploration.

BAS 1210 Personal and Social Development (2 credits)
Personal and Social Development is a course designed to provide experiences to enhance the development of behaviors that are characteristic of successful college students. The course will encourage students to explore the context of the UAPB undergraduate experience through the perspective of their own learning community participation. Experiences center on developing social and academic skills: (1) cognitive behaviors such as critical thinking, test-taking, use of the library; (2) affective behaviors such as concepts of good mental and emotional health, attitudes, values, and interest patterns; (3) psychomotor skills such as note-taking, listening, and time management; and (4) use of technology, campus resources, and support services to achieve personal success. It will also help students develop an understanding and appreciation for UAPB's role in higher education through an exploration of the University's heritage (history, mission, philosophy, and goals).

BIOL 1455 Principles of Biology (4 credits)
Basic biological principles and concepts ranging from the molecular to the organismal level.
Lecture: 3 hours per week. Laboratory: 3 hours per week.
APPLICABLE FOR SCIENCE MAJORS.
Offered: Fall and spring semesters.
BIOL 1455 IS A PREREQUISITE FOR ALL HIGHER NUMBERED COURSES IN BIOLOGY.

BIOL 2451 Human Anatomy & Physiology I (4 credits)
Structure and function of human systems including the cell, tissues, the integument, skeletal, muscular, nervous, and the general and special senses.
Lecture: 3 hours per week. Laboratory: 2 hours per week.
Prerequisite BIOL 1450 or BIOL 1455.
Offered: Fall semester.
Required of Nursing majors and recommended for Physical Education majors.
NOT A REQUIREMENT FOR BIOLOGY MAJORS.

BIOL 2452 Human Anatomy & Physiology II (4 credits)

Structure and function of human systems including circulatory, lymphatic, fluid and electrolyte, urinary, respiratory, digestive, endocrine and reproductive.
Lecture: 3 hours per week. Laboratory: 2 hours per week.
Prerequisite: BIOL 1450 or BIOL 1455.
BIOL 2451 is not a prerequisite.
Offered: Spring semester
NOT A REQUIREMENT FOR BIOLOGY MAJORS.

BIOL 3470 General Microbiology (4 credits)
Anatomy and physiology of microorganisms and the role they play in daily life.
Lecture: 3 hours per week. Laboratory: 3 hours per week.
Prerequisite: BIOL 1455.
Offered: Each semester.

CHEM 1430 General Chemistry (4 credits)
Introduction to the basic laws and theories of chemistry. Covers basic concepts of atomic structure and chemical bonding, with an in-depth introduction to nomenclature of inorganic compounds, stoichiometric calculations, redox reactions, gas laws, and thermochemistry.
Lecture: 3 hours per week. Laboratory: 3 hours per week.
Co-requisite: MATH 1330 or departmental consent.

CHEM 1440 General Chemistry (4 credits)
A continuation of GENERAL CHEMISTRY 1430. In-depth introduction to atomic structure, molecular structure, chemical bonding, involving solution properties, chemical kinetics, chemical equilibrium, acid-base theory and introduction to thermodynamics.
Lecture: 3 hours per week. Laboratory: 3 hours per week.
Prerequisite: CHEM 1430.

CHEM 2411 Organic Chemistry (4 credits)
A short course emphasizing life science aspects through selected studies of both aliphatic and aromatic compounds. Introduces biochemistry. This course satisfies the organic chemistry requirement for a number of health sciences areas.
Lecture: 2 hours per week. Laboratory: 3 hours per week.
Prerequisite: CHEM 1410.

CHEM 3412 Biochemistry (4 credits)
An introduction to the biochemical principles of cellular constituents and chemical processes in living systems. Carbohydrates, lipids, proteins, and nucleic acids are covered in-depth. Enzymology and metabolic principles are introduced.
Lecture: 3 hours per week. Laboratory: 3 hours per week.
Prerequisite: ORGANIC CHEMISTRY 3420.

ECON 2310 Principles of Economics I (3 credits)
Introduces the basic economic problems of a society, how the different solutions to these problems lead to different political philosophies. Discussions focused on the economic activities of the society as a whole, especially effects of monetary and fiscal policies on employment, income and price levels.
Prerequisite: ENGL 1311.

ENGL 1311 English Composition (3 credits)

Instruction in fundamentals of communication, selected readings, paragraph and essay development, and written reports. Students must complete all course work and pass a common examination. A minimum grade of “C’’ is required for passing.
Prerequisite: a score of 19 or above on the ACT Test or a grade of “C’’ or better in English 1310.

ENGL 1321 English Composition II (3 credits)
Instruction in argumentation and the research process. A minimum grade of “C” is required for passing.
Prerequisite: successful completion of ENGL 1311 with a grade of “C” or better.

HLPE 1310 Personal Health and Safety (3 credits)
Study of wellness, including fundamental biological facts and aspects of human behavior as they affect individual health, conduct, and mental hygiene; agents of disease and modern scientific methods of controlling disease.

HUMN 2340 Effective Thinking Logic (3 credits) (*Preferred Humanities Course)*
Acquaints the student with the principles and techniques of correct vs. incorrect reasoning in both deductive logic and inductive logic, in their relation to the basic functions of language and to the modern scientific method.
Prerequisite: ENGL 1321.

HUSC 1102 - Orientation to Human Sciences [Core Course] (1 credit)
Assists students in achieving an understanding of and appreciation for Human Sciences as a profession through a study of its objectives, history and the organizations within it; and a look at the future implications for each area within Human Sciences.
Lecture: 1 hour per week.

HUSC 1412 - Food Principles and Management (4 credits)
This course deals with the principles of food preparation, planning and serving family meals which require inputs of money, time, personal effort, and mechanical energy. It also emphasizes the development of managerial abilities utilizing the process of decision making.
Lecture/Laboratory: 5 hours per week.
Restricted to majors in certain areas.

HUSC 2300 - Family Development [Core Course] (3 credits)
The dynamics of family interaction at each stage of the life cycle; emphasizes the developmental tasks, socioeconomic and cultural influences and other family differences.
Lecture: 3 hours per week.

HUSC 2321 - Elementary Nutrition (3 credits)
Understanding the significance and application of the Recommended Dietary Allowances, nutrient sources, food consumption, human digestion, absorption and metabolism with special emphasis on biochemical pathways in health and disease.
Lecture: 3 hours per week.
Prerequisite: CHEM 1410 or CHEM 1430.

HUSC 2433 - Quantity Food Production Management (4 credits)
Principles of selecting, purchasing, operating and maintaining institutional equipment; fundamentals of design and layout of food service systems. Application of principles, tools and controls of quantity cookery management.
Lecture: 2 hours per week. Lab: 15 clock hours per week for 5 to 6 weeks
Prerequisite: Food Principles and Management HUSC 1412.

HUSC 3311 - Food Service Systems Management (3 credits)
Application of the principles and techniques of management to food service systems with various organizational structures and functions; emphasis on management of personnel, finance and technical controls.
Lecture: 3 hours per week.
Prerequisite: HUSC 2433.

HUSC 3326 - Nutrition through the Life Cycle (3 credits)
A life cycle approach to the science of normal nutrition that incorporates study of the physiological, psychological and cultural aspects of eating behaviors, specific nutritional requirements and health promotion as they relate to the different stages of life from prenatal to old age.
Lecture: 3 hours per week.
Prerequisite: HUSC 1311 or 2321.

HUSC 3331 - Advanced Nutrition (3 credits)
A study of the chemistry and functions of nutrients and the interrelationship in the physiological and metabolic processes of the human organism; includes nutrient requirements, allowances and measurements.
Lecture: 3 hours per week.
Prerequisites: HUSC 2321, 3325; CHEM 1410 or 1430 and 1440; or currently, BIOL. 2452.

HUSC 3420 - Experimental Food Science (4 credits)
A study of the composition, chemistry, physical and qualitative properties of basic food materials and food systems; a treatment of the physicochemical basis of food preparation; analysis of current research studies on food materials and processes; application of the scientific approach to the study of food principles.
Lecture: 2 hours per week. Laboratory: 4 hours per week.
Prerequisites: HUSC 1412, and 2321; CHEM 1410 or 1430 and 1440; and MATH 2370.

HUSC 4202 - Senior Seminar [Core Course] (2 credits)
The Senior Seminar is a capstone course required of all Agriculture, Fisheries and Human Sciences majors. The Course explores the application of principles in the work place and student transition to careers and/or graduate school. Includes relevant readings, class discussions and an interdisciplinary group research project and professional presentation. Submission of the SAFHS Student Portfolio is a requirement of the course.
Lecture: 2 hours per week.
Prerequisite: Senior students with 90 credits or approval from the department chair.

HUSC 4301 – Methods of Teaching Human Sciences [Core Course] (3 credits)
Selection and organization of instructional techniques, materials and media for use in teaching human sciences. Special attention given to problem solving, approaches to teaching human sciences, lesson and unit planning. Observation of teaching at the secondary level is required.
Lecture: 3 hours per week.

HUSC 4330 - Community Nutrition (3 credits)
Designed to aid dietitians, nutritionists and other allied health professionals in serving the community with respect to nutrition. The course covers goals, management, operation and impacts of community programs in the United States and other countries. Attention will also be given to the techniques involved in the assessment of community nutrition.
Lecture: 2 hours per week. Laboratory/Field Experience: 2 hours per week.

Prerequisite: HUSC 2321: HUSC 3325.

HUSC 4431 - Medical Nutrition Therapy I (4 credits)
Study of nutrition care process, food and drug interactions, nutritional counseling, enteral and parenteral nutrition support, and weight management. Pathophysiology and application of principles of nutrition care process for preventive and therapeutic measures in nutritional management of acute and chronic disorders.
Lecture: 3 hours per week. Laboratory: 2 hours per week
Prerequisites: HUSC 2321, 3331, 3326; BIOL 2452.

HUSC 4441 - Medical Nutrition Therapy II (4 credits)
Pathophysiology and application of principles of nutrition care process for preventive and therapeutic measures in nutritional management of acute and chronic disorders. A continuum of HUSC 4431 Medical Nutrition Therapy I.
Lecture: 3 hours per week. Laboratory: 2 hours per week.
Prerequisite: HUSC 4431.

HUSC 4399 - Human Sciences Research [Core Course] (3 credits)
This course is designed to allow students an opportunity to develop problem-solving, analytical skills and develop competencies in scientific investigation, interpretation and publication of data results. Emphasis is placed on identifying specific research problems, literature review, experimental design, data collection, database management, statistical analysis, and techniques of effective scientific writing.
Lecture: 3 hours per week.

MATH 1330 College Algebra (3 credits)
The number system and fundamental operations, linear and quadratic equations, functions and graphs, complex numbers, inequalities, logarithms and matrices.
Prerequisite: MATH 1320 or placement by score on ACT of 19 or higher

MATH 2370 Introduction to Statistics (3 credits)
The classification of data, different kinds of averages and their uses, frequency distributions, meaning of dispersion and its measurement, regression or trend lines, the meaning of co-relations. This course will not be counted toward a major in mathematics.
Prerequisite: MATH 1330.

MCOM 2390 ORAL COMMUNICATION (3 credits)
Develops the ability to speak easily and fluently before groups. Emphasizes various arts of speech, including public speaking, oral interpretation, and group discussion. Special emphasis placed on pronunciation, articulation, and vocabulary development.

MDFL 2311 Elementary Spanish I (3 credits)
An introductory course in Spanish which emphasizes language skills through basic reading, writing and speaking. For students with no previous study of Spanish.

MIS 1312 Micro Computer Applications (3 credits)
An introduction to the use of microcomputers. Surveys the use of the DOS and WINDOWS operating systems, and several application programs; including a spreadsheet program, a word processing program and a database program. Lecture, “hands-on” exercises, and corporate profiles used to make the student aware of realistic applications of such programs.

PSCI 2312 American Government (3 credits)

Study of the national government, including relationships among federal, state and local governments

PSYC 2300 General Psychology (3 credits) Gives a broad overview of psychology, covering such topics as the development of the organism, biological basis of behavior, learning, memory, history of psychology, social basis of behavior, and individual differences.