**NUTRITION (NUTR)**

**NUTR 1001   NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING  1 Credit Hour**
Teaches basic nutrition information for healthy eating including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.
**Prerequisite:** none.
**Schedule Type:** Lecture
**Contact Hours:** 1 lecture
**Grade Mode:** Standard Letter

**NUTR 23012   INTRODUCTORY FOOD SCIENCE   3 Credit Hours**
(Cross-listed with HM 23012) Principles of food preparation and quality evaluation with an emphasis on food science concepts, nutrition, food consumption trends, and government regulation. Course includes lecture and lab components.
**Prerequisite:** NUTR 23511.
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab
**Contact Hours:** 2 lecture, 3 lab
**Grade Mode:** Standard Letter

**NUTR 23112   INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS   1 Credit Hour**
Discusses academic requirements for successful completion of the Bachelor of Science in Nutrition, the history of the profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.
**Prerequisite:** none.
**Schedule Type:** Lecture
**Contact Hours:** 1 lecture
**Grade Mode:** Standard Letter

**NUTR 23510   QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY   3 Credit Hours**
(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems including safety and sanitation, production forecasting and management, distribution, and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization, and considerations of nutrition, quality, and sustainability in quantity production. A laboratory is included in the course.
**Prerequisite:** NUTR 23112.
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab
**Contact Hours:** 2 lecture, 3 lab
**Grade Mode:** Standard Letter

**NUTR 23511   SCIENCE OF HUMAN NUTRITION (KBS)   3 Credit Hours**
Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.
**Prerequisite:** None.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter
**Attributes:** Kent Core Basic Sciences, TAG Health

**NUTR 33512   INTERMEDIATE NUTRITION SCIENCE   3 Credit Hours**
Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.
**Pre/corequisite:** CHEM 20481 or CHEM 30481.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**NUTR 33522   INTRODUCTION TO NUTRITION ASSESSMENT   3 Credit Hours**
Application of nutrition principles including nutrition focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards, and food exchange lists.
**Prerequisite:** NUTR 23511 and PSYC 11762 and SOC 12050; Nutrition (NUTR) major.
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab
**Contact Hours:** 2 lecture, 2 lab
**Grade Mode:** Standard Letter

**NUTR 33532   BUSINESS AND MANAGEMENT OF NUTRITION SERVICES   3 Credit Hours**
Course explores the business management side of dietetics and includes application of management theories to dietetic programs and services, budgeting, billing and coding as well as quality improvement in dietetics programs and departments.
**Prerequisite:** NUTR 23511.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**NUTR 35319   NUTRITION, HEALTH AND SOCIETY   3 Credit Hours**
The course explores the role of environment, food, nutrition and lifestyle choices in health promotion and disease prevention with a focus on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.
**Prerequisite:** NUTR 23511.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**NUTR 41095   SPECIAL TOPICS IN NUTRITION   1-4 Credit Hours**
(Repeatable for credit) Discussion of a major topic within a specific field in nutrition and dietetics.
**Prerequisite:** None.
**Schedule Type:** Lecture
**Contact Hours:** 1-4 lecture
**Grade Mode:** Standard Letter

**NUTR 41096   INDIVIDUAL INVESTIGATION IN NUTRITION   1-3 Credit Hours**
(Repeatable for credit) Independent study in nutrition and dietetics.
**Prerequisite:** Written permission from instructor.
**Schedule Type:** Individual Investigation
**Contact Hours:** 1-3 other
**Grade Mode:** Standard Letter
NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours
(Slashed with NUTR 53013) Student will gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis, and techniques of scientific writing.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NUTR 43016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours
(Slashed with NUTR 53016) Understanding the interrelationship between food and agricultural practices of racial, ethnic, and religious populations globally.
Prerequisite: NUTR 23511 and SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with NUTR 53030) (Cross-listed with HM 43030 and HM 53030) Food service systems management including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership, and human resources.
Prerequisite: HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43511 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 53511) Exploration of the Nutrition Care Process including documentation, standardized language, nutrition assessment, interpretation of laboratory values, and individualized patient care and planning for disease and nutritional needs. This course also has a lab which provides the opportunity for students to engage in case studies and nutritional assessments.
Prerequisite: BSCI 30130, CHEM 30284 and NUTR 33512.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53512) This course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.
Prerequisite: BSCI 30130, CHEM 30284 and NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53513) This course explores the mechanisms through which micronutrients meet human biological need in relationship to underlying applied human nutrition.
Prerequisite: NUTR 33512 and BSCI 30130 and CHEM 30284.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43514 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 53514) Continued exploration of the Nutrition Care Process including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values, and individualized patient care and planning for disease and nutritional needs. The course also has a lab which provides the opportunity for students to engage in case studies and nutritional assessments.
Prerequisite: NUTR 43511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours
(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning, and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation, and outcomes in nutrition education as well as nutrition communication, programming, and counseling techniques.
Prerequisite: NUTR 33512, NUTR 33522 and NUTR 33532.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 53518) Explore the nutrition needs of through growth, development, and aging. This course will specifically focus on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood, and older adulthood.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43520 SPORTS NUTRITION 3 Credit Hours
(Slashed with NUTR 53520) The course focuses on the relationship between nutrition and exercise and how nutrition impacts sports performance.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours
Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.
Prerequisite: NUTR 23511; not open to Nutrition (NUTR) majors.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition including personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods as well as the interaction of food on supplement and drug efficacy.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
NUTR 43523  NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE  3 Credit Hours
Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.
Prerequisite: Nutrition (NUTR) major and Senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 43532  METH AND EXP NUTR OUTREACH  3 Credit Hours
Students learn methods for development and evaluation techniques used for nutrition outreach programming, the role of community nutrition education in public health, and the impact of nutrition programming on disease prevention and management. Students also engage in service learning opportunities in community nutrition education.
Prerequisite: Special approval.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.5 lecture, .5 other
Grade Mode: Standard Letter

NUTR 45092  PRACTICUM IN NUTRITION (ELR)  1-3 Credit Hours
Application of education in pre-professional experience in clinical, community, and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.
Prerequisite: Special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 45098  RESEARCH IN NUTRITION (ELR)  1-3 Credit Hours
Students will engage in research under the supervision of a nutrition faculty member. This may include the development of the student’s research idea or working on faculty led research.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 51095  SPECIAL TOPICS IN NUTRITION  1-4 Credit Hours
(Repeatable for credit) Discussion of a major topics within the field of nutrition and dietetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 51096  INDIVIDUAL INVESTIGATION IN NUTRITION  1-3 Credit Hours
(Repeatable for credit) Independent study in the area of nutrition and dietetics.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 53013  RESEARCH AND STATISTICAL METHODS IN NUTRITION  3 Credit Hours
(Slashed with NUTR 43513) Students will gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis, and techniques of scientific writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53016  WORLD FOOD CUSTOMS AND NUTRITION  3 Credit Hours
(Slashed with NUTR 43016) Understanding the interrelationship between food and agricultural practices of racial, ethnic, and religious populations globally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53030  FOOD SERVICE SYSTEMS MANAGEMENT  3 Credit Hours
(Slashed with NUTR 43030) (Cross-listed with HM 43030 and HM 53030) Food service systems management including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial foodservice including financial control, marketing, quality, management, leadership, and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53511  MEDICAL NUTRITION THERAPY I  3 Credit Hours
(Slashed with NUTR 43511) Exploration of the Nutrition Care Process including documentation, standardized language, nutrition assessment, interpretation of laboratory values, and individualized patient care and planning for disease and nutrition needs. This course also has a lab which provides the opportunity for students to engage in case studies and nutrition assessment exercises.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53512  MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY  3 Credit Hours
(Slashed with NUTR 43512) This course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53513  MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY  3 Credit Hours
(Slashed with NUTR 43513) This course explores the mechanisms through which micronutrients meet human biological need in relationship to underlying applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
NUTR 53514 MEDICAL NUTRITION THERAPY II  3 Credit Hours
(1 Slashed with NUTR 43514) Application of the principles of normal nutrition to diet and disease effect of pathological conditions on nutritional needs. Also included is a lab which provides the opportunity for students to engage in case studies and nutritional assessments.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53515 COMMUNITY NUTRITION  3 Credit Hours
Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning, and behavior change theories and techniques. Includes and experiential laboratory component with a focus on planning, implementation, evaluation, and outcomes in nutrition education as well as nutrition communication, programming, and counseling techniques.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53518 LIFECYCLE NUTRITION  3 Credit Hours
(1 Slashed with NUTR 43518) Explore the nutrition needs through growth, development, and aging. This course will specifically focus on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood, and older adulthood.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53520 SPORTS NUTRITION  3 Credit Hours
(1 Slashed with NUTR 43520) The course focuses on the relationship between nutrition and exercise and how nutrition impacts sports performance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION  2 Credit Hours
Adapting normal diet to accommodate prescribed food restriction. Provides introductory overview of dietary modifications commonly encountered by the elderly.
Prerequisite: NUTR 23511 and Graduate standing; not open to Nutrition (NUTR) majors.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION  2 Credit Hours
(1 Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition including personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods as well as the interaction of food on supplement and drug efficacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH  3 Credit Hours
Students learn methods for development and evaluation techniques used for nutrition outreach programming, the role of community nutrition education in public health, and the impact of nutrition programming on disease prevention and management. Students also engage in service learning opportunities in community nutrition education.
Prerequisite: Nutrition (NUTR) major; and Graduate standing and special approval.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.5 lecture, 0.5 other
Grade Mode: Standard Letter

NUTR 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES  3 Credit Hours
Introduction to the types of research and methods of data collection applied to a project of the student’s choice.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

NUTR 61098 RESEARCH  1-15 Credit Hours
(Repeatable for credit) Research for master’s-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 61198 MASTER’S PROJECT  2-6 Credit Hours
(Repeatable for credit) (Cross-listed with HDFS 61198) Completion and successful defense of a master’s project. Master’s project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing and special approval.
Schedule Type: Masters’ Project
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63199 THESIS I  2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63299 THESIS II  2 Credit Hours
Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: NUTR 61199 and Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS  3 Credit Hours
Intake, digestion and absorption of nutrients.
Prerequisite: Nutrition (NUTR) major and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
NUTR 63520  MACRONUTRIENT NUTRITION  3 Credit Hours
Metabolic utilization of macronutrients for body processes.
Prerequisite: Nutrition (NUTR) major and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63521  NUTRITION AND DISEASE: CLINICAL APPLICATIONS  3 Credit Hours
Recent trends and concepts in research and practice of therapeutic dietetics.
Prerequisite: Nutrition (NUTR) major and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63524  PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION  3 Credit Hours
Explores the relationship between nutritional epidemiology and the research, policies, and programs for successful treatment and prevention of nutrition related disease in the U.S. Also focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63525  DIETETIC PRACTICE: COMMUNITY  1 Credit Hour
Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63526  DIETETIC PRACTICE: MANAGEMENT  1 Credit Hour
Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63527  DIETETIC PRACTICE: CLINICAL  1 Credit Hour
Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63591  NUTRITION SEMINAR  1-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic selected will be indicated in the schedule of classes each semester offered.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 63592  DIETETIC INTERNSHIP  1-4 Credit Hours
(Repeatable for credit) Supervised practice component of dietetic internship.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 12-48 other
Grade Mode: Satisfactory/Unsatisfactory