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Nutrition and Food Science (NUFD)

Montclair State University

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Nutrition & Food Science

NUFD110 Title International Cuisine.

Prerequisites Nutrition and Food Science majors with concentrations in Food Systems (NUSY)

and Applied Nutrition (NUFA).

Special Fee Special fee.

Number and type of credits 2 hours lecture, 1.5 hours lab.

Course Description Introductory course for the study of cooking styles associated with the

development of ethnic and international cuisine. The course will primarily focus on a particular culinary region to be determined, giving students a holistic understanding of how ingredients and food customs develop into a cuisine. The lessons learned will enable students to research and prepare complete menus reflective of the culture and food goods of a region with

emphasis on local ingredients and authentic preparation methods.

NUFD130 Title Introduction to Nutrition and Food Science Profession.

Prerequisites Nutrition and Food Science majors with concentration in Dietetics (NUFD), Food

Systems (NUSY), Applied Nutrition (NUFA) or Food Science (NUFC); or Nutrition

and Food Science minors (NUFS).

Number and type of credits 1 hour lecture.

Course Description An introductory course which provides general information about nutrition and

food science fields and acquaints students with professional requirements and

opportunities.

NUFD150 Title Food Composition and Scientific Preparation.

Special Fee Special fee.

Number and type of credits 1 hour lecture, 3 hours lab.

Course Description An introduction to food science, nutrition and food preparation with emphasis

on scientific principles involved in the characteristics of acceptable

standardized products and product evaluation.

NUFD153 Title Dynamics of Food and Society.

Number and type of credits 3 hours lecture.

Course Description This course is designed to give students an opportunity to explore issues of

food consumption through a study of: basic nutrition requirements; social/psychological factors influencing food behaviors; food acquisition through history as compared to contemporary situations; the impact on the ecological system in the quest for food; and the social, economical, and political aspects of the world food situation and potential means of

alleviating the problems of hunger and nutrient deficiencies. Meets Gen Ed 2002 - Social Science, Social Science. Meets World Cultures Requirement.

Soup and Sauce Technology.

Special Fee Special fee.

Number and type of credits 1.5 hours lecture, 1.5 hours laboratory.

Course Description This course introduces the students to basic, tradi

This course introduces the students to basic, traditional and modern culinary principles of volume stock soup and sauce preparation. The course primarily focuses on how to make traditional soups and sauces and then develop production strategies necessary to bring these products to modern markets. Lessons learned enable students to formulate soup and sauce recipes that are tasteful, flavorful and targeted to modern markets. Artisanal and modern packaging, safety and marketing strategies are emphasized. The course features lecture and hands-on laboratory experiences. Laboratory fee.

NUFD182 Title Nutrition.

Number and type of credits 3 hours lecture.

NUFD175

Title

Course Description This course is designed to give students a general knowledge of the components

of the food we eat, the nutrients necessary for a healthy life, the functions

NUFD182 Course Description of nutrients and the interrelationships and metabolism of nutrients. The

factors which influence the recommended dietary intake of nutrients, and

theories and guidelines for screening nutrition risk and disease and

prevention are presented.

NUFD185 Title Artisanal and Modern Baking Techniques.

Course Description This course is designed for students who need baking skills to produce

artisanal breads and pastries in traditional and modern bakery production environments. Students learn basic methods and techniques for producing

ferments, dough and bakery emulsions. They design and produce bakery products

including breads, baguettes, flat breads, tortillas, pies, cakes and pastries. The students also learn how to preserve, add flavor to, and extend the shelf life of mass-produced bakery products. The course features hands-on

laboratory baking experiences. Laboratory fee.

NUFD192 Title Nutrition with Laboratory.

Prerequisites Nutrition and Food Science majors with concentrations in Dietetics (NUFD),

Applied Nutrition (NUFA), Food Systems (NUSY) or Food Science (NUFC); and Business Administration majors with a concentration in Hospitality Management (BAHM); and Academy of Nutrition and Dietetics Certificate Program students (ADA).

Special Fee

Special fee.

Number and type of credits

3 hours lecture, 2 hours lab.

Course Description

This course is designed to provide students with a general understanding of the components of the food we eat and the nutrients necessary for life. The functions of nutrients, their interrelationships, digestion, absorption and metabolism of nutrients are discussed. The factors, such as age, gender, ethnicity, physical activity, and environmental factors, which influence food intake and requirements of nutrients, are covered. Students learn to measure and evaluate their nutritional status and body composition using equipment used in laboratory and analyze their diets using computer software. They plan meals considering individual's nutritional requirements in the laboratory. Historical, national, and international issues regarding food and nutrition are presented.

NUFD240

Title

Sanitation Management and Food Microbiology: Certification.

Prerequisites

NUFD 150 (may be taken as prerequisite or corequisite) or HOSP 250 (may be

taken as prerequisite or corequisite).

Number and type of credits

Course Description

1 hour lecture.

Food safety for effective food service management. Understanding of

Sanitation Risk Management, microbial food contaminants, and food safety regulations. Students will be entitled to take the "ServSafe Food Protection

Manager Certification" examination.

NUFD253 Title

Title Quantity Food Purchasing and Production.

Prerequisites NUFD 182 or NUFD 192.

Number and type of credits

3 hours lecture.

Course Description

Determining needs, purchasing, storing, preparing and serving food in large

volume.

NUFD254

Foodservice Equipment and Facilities Design.

Prerequisites

Title

NUFD 350. Starting Winter 2016: NUFD 150.

Number and type of credits

3 hours lecture.

Course Description

Facilities layout and design. Selection of equipment based on design

criteria. Purchasing standards and procedures.

NUFD255 Title Meal Design and Management.

Prerequisites NUFD 150; and either NUFD 182 or NUFD 192. Current health insurance and

negative PPD test required.

Special Fee Special fee.

Number and type of credits 3 hours lecture, 1.5 hours lab.

NUFD255 Course Description In this course, students learn about the design and analysis of meals for

individuals and families, giving special emphasis to therapeutic nutrition and economic needs balanced with current lifestyles. Students also learn about principles involved in meal management and practice those in class labs.

NUFD257 Title Principles of Food Science.

Prerequisites NUFD 150 and CHEM 113.

Number and type of credits 3 hours lecture.

Course Description Students will learn basic principles of Food Science with emphasis on food

processing and the chemical, physical and biological reactions occurring in food that affect nutritional, sensory and safety during processing and storage. This course is appropriate for students in the Food Science concentration and well as Food Systems, Biology, Chemistry and Health

Sciences.

NUFD282 Title Applied Nutrition in the Lifecycle.

Prerequisites NUFD 130 (may be taken as prerequisite or corequisite); and NUFD 182 or NUFD

192.

Number and type of credits 3 hours lecture.

Course Description The application of basic nutrition knowledge to individuals in various life

stages. Analysis of the physiological, biochemical, psychological and social

factors that affect nutrient needs throughout the lifecycle.

NUFD285 Title Nutrition in Chronic Disease Prevention.

Prerequisites NUFD 182 or NUFD 192.

Number and type of credits 3 hours lecture.

Course Description This course uses a systems approach to understand the role of nutrition in

influencing chronic disease outcomes among adults. The course focuses on five

specific organ systems (immune, circulatory, skeletal, endocrine, and

excretory) and their role in influencing risks to diseases such as cancer, heart disease, osteoporosis, overweight/obesity, diabetes, and hypertension. The functions and metabolism of the major nutrients related to these diseases will be discussed in detail. Finally, the course will use an applied format (case studies) to help students demonstrate a basic knowledge of how reliable nutrition information is derived from scientific research, and be able to discern facts from fallacy in diet-related issues. Utilizing this knowledge, they will be able to work with community-based agencies in developing initiatives that help various population groups make healthier food choices and prevent chronic disease risks more effectively.

NUFD292

Title

Applied Community Nutrition.

Prerequisites

NUFD 192.

Number and type of credits

Course Description

3 hours lecture.

This course provides a comprehensive overview of the impact of federal and state legislation on community nutrition service, dietetics practice, and health care within the United States. Students learn about the Nutrition Care Process, which is a systematic approach to providing quality nutrition care consisting of four distinct, interrelated steps entailing nutrition assessment, diagnosis, intervention, and monitoring/evaluation. The course demonstrates the application of this process. Nutrition informatics-the intersection of information, nutrition, and technology-is also presented. This course may be repeated for a maximum of 6 credits.

NUFD304 Title

TILLE

Introduction to Research.

Prerequisites

Number and type of credits

3 hours lecture.

Course Description

A study of the basic concepts, principles and methodologies of scientific

MATH 109; and NUFD 282 may be taken as prerequisite or corequisite.

research and their application to the investigation of research problems in $% \left\{ 1,2,\ldots ,n\right\}$

health, nutrition, and food science.

NUFD350

Title

Quantity Food Applications.

NUFD350

Prerequisites

NUFD 253 or HOSP 390; and junior or senior standing. Students must provide

proof of current health insurance coverage and a negative PPD test.

Special Fee

Special fee.

Number and type of credits 4 hours lab.

Course Description Capstone lecture and laboratory experiences to support basic concepts of

quantity food purchasing and production. Students will learn hands-on skills to produce culinary products in large quantities. Laboratory assignments in the MSU Food Management laboratory and in functioning food service facilities

off campus.

NUFD352 Title Organization and Management of Foodservice Systems.

Prerequisites NUFD 282 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description Principles of management, organizational structure, policy and

decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management. Meets the University Writing Requirement for majors in Nutrition and Food Science.

NUFD353 Title Catering and Banquet Management.

Prerequisites NUFD 350. Current health insurance and negative PPD test required. Starting

Winter 2016: NUFD 253 or HOSP 390. Current health insurance and negative PPD

test required

Special Fee Special fee.

Number and type of credits 3 hours lecture.

Course Description This course is designed for those who need to know how food is prepared and

then served in a catered or banquet setting. Students learn how to select and determine costs of catered food, plan a catered banquet and various culturally

influenced serving styles.

NUFD357 Title Experimental Food Science.

Prerequisites CHEM 113; NUFD 240 may be taken as prerequisite or corequisite.

Special Fee Special fee.

Number and type of credits 1 hour lecture, 3 hours lab.

Course Description Study of the theory and applications of the chemical and physical changes

involved in food processing, storage and preparation through objective and

subjective analytical techniques.

NUFD360 Title Urban Agriculture and Sustainable Food Systems.

Prerequisites NUFD 240.

Number and type of credits 3 hours lecture, 1 hour lab.

Course Description In this service-learning course, students gain hands-on experience in urban

agriculture, including garden planning, growing and harvesting vegetables, and designing garden-based lesson plans. While gaining a foundation in agroecology and community development approaches, students critically assess the role urban agriculture plays in creating sustainable food systems and promoting community empowerment. By participating in a service-learning field experience, students develop a place-based understanding of the potentials and challenges confronting urban agriculture. May be repeated for a maximum of 12 credits.

NUFD367

Title

Prerequisites

Number and type of credits

Course Description

Fundamentals of Food Processing and Preservation.

NUFD 257.

3 hours lecture.

Students learn general food processing and preservation principles and methods. They learn about emerging technologies for processing, packaging, and preserving foods and beverages, the appropriate use of food processing equipment, and quality assessment techniques for food processing and preservation. Students visit food processing facilities where they have hands-on experiences of the food processing principles learned in the class. Course activities include reading and analyzing scenarios that demonstrate the

NUFD367

Course Description

NUFD377

Title

Prerequisites

Number and type of credits

Course Description

food scientist's role in the Integration and application of food processing

and preservation concepts, principles, and skills in solving real-world food

science problems.

Sensory Evaluation of Foods.

NUFD 150, NUFD 257 and NUFD 357.

3 hours lecture.

This course is an upper level Food Science course within the Nutrition and Food Science major. It expands and builds on previous food science courses and is designed to integrate and increase knowledge and skills in determining food quality and consumer acceptance via use of the human senses. The students will follow step by step procedures to learn how to evaluate food sensory characteristics such as appearance, color, flavor, odor, texture, and choices via sensory methods and techniques. Students will learn various sensory testing methods and statistical methods in evaluating food quality.

May be repeated for a maximum of 9 credits.

NUFD382 Title Advanced Nutrition.

Prerequisites CHEM 270 and NUFD 182 or NUFD 192. BIOL 243 may be taken as a prerequisite or

a corequisite.

Corequisites BIOL 243 may be taken as a prerequisite or a corequisite.

Special Fee Special fee.

Number and type of credits 4 hours lecture.

Course Description The physiological and chemical bases for nutrient needs, mechanisms through

which nutrients meet the biological needs of humans, evaluation and

interpretation of research findings.

NUFD384 Title Nutrition in Developing Countries.

Prerequisites NUFD 282.

Number and type of credits 3 hours lecture.

Course Description Nutritional problems; factors which contribute to malnutrition; effect of

under-nutrition and malnutrition; methods of assessing nutrition status of a

population and application of measures for improvement.

NUFD387 Title Molecular Cuisine.

Prerequisites NUFD 240. Current health insurance and negative PPD test required.

Special Fee Special fee.

Number and type of credits 2 hours lecture and 2 hours lab.

Course Description This course focuses on current gastronomic trends, utilizing innovative

scientific approaches to food production. The course includes combining classical cooking techniques with state-of-the-art methods, deconstruction of

 $recipes \ and \ scientific \ preparation \ of \ edible \ foods. \ Lessons \ learned \ will$

enable students to critically assess traditional food combinations to open up creative avenues of thinking for future food production and presentation strategies. The course features lectures and hands-on laboratory experiences.

NUFD392 Title Food Systems and Agribusineses Issues.

Prerequisites BSLW 235. Starting Winter 2016: NUFD 282.

Number and type of credits 3 hours lecture.

Course Description This course provides an introductory examination of the systems of production,

processes, and distribution of food throughout the food chain. The course places particular critical emphasis on the current agribusiness model through the examination of the role and impact of government and politics in food

processes and distribution. Text, required readings, current events, guest speakers, and current journal articles are utilized in the course as the means to explore and evaluate the current agribusiness model, alternatives, and regulatory and policy influences.

NUFD395 Title

Applied Nutrition for Populations.

Prerequisites

NUFD 182 or NUFD 192 or NUFD 282 or HLTH 240. Starting Winter 2016: NUFD 182

or NUFD 192; and HLTH 102; and HLTH 240 or NUFD 282.

NUFD395

NUFD405

Number and type of credits

3 hours lecture.

Course Description

This course is a comprehensive overview of the concepts and principles of nutrition, especially as it relates to using a population-based approach to preventing and managing chronic disease in the community. In this course, an emphasis is placed on the distinct chronic disease states of

overweight/obesity, heart disease, hypertension, diabetes, cancer, and HIV/AIDS. Students learn about the socio-ecological model and the various personal, social, environmental, and policy-related factors that influence prevalence rates of these diseases among diverse population groups. Through this course, students also learn to apply their knowledge of nutritional

principles, make important and practical connections between diet and disease in the community, and improve their oral and written communication skills.

Concepts of the Sommelier.

Prerequisites

Title

NUFD 150; must be over 21 years old; departmental approval. Starting Winter

2016: NUFD 357 or HOSP 390; must be over 21 years old; departmental approval

Special fee.

Special Fee

Number and type of credits

Course Description

2 hours lecture, 2 hours lab.

This course provides an overview of the wine producing regions of the world and the elements of wine appreciation and service. Students participate in several tasting sessions in which they analyze wine through three sensory attributes: appearance, smell and palate sensation. Through blind tasting and sensory deduction, the students learn to compare and contrast wine quality and flaws. The students learn to recognize the diversity of the world of wine production by studying variables such as grape variety, climate, soil, and local approaches to grape growing and wine making. Additionally, students

apply the principles of the wine service.

Internship in Nutrition and Food Science. NUFD409 Title

> **Prerequisites** NUFD 352 and senior standing or minimum of 24 credits in the major. Nutrition

> > and Food Science majors only. 2.67 GPA required.

Number and type of credits

4 - 8 hours other.

Course Description Opportunity to work as an intern in a professional setting related to food

management, nutrition or dietetics related profession. Application available

from advisor.

NUFD412 Title **Nutrition Education Techniques.**

> **Prerequisites** NUFD 282; and NUFD 304 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description Procedures and techniques for developing programs and teaching nutrition to a

variety of target populations. Individual and group methods emphasize

innovation. Field studies.

Research in Foods. NUFD456 Title

> NUFD 357. **Prerequisites** Special Fee Special fee.

Number and type of credits 1 hour lecture, 3 hours lab.

Scientific method in the design and execution of experimental food studies and **Course Description**

in the interpretation and evaluation of results. Independent laboratory

research.

Food Product Development. NUFD466 Title

> **Prerequisites** NUFD 367. 3 hours lecture. Number and type of credits

In this course students will learn to integrate knowledge and skills from **Course Description**

> previous food science and nutrition courses to develop new, nutritious, safe and sensory acceptable food products. Students will develop oral and written reports that will document information on current food trends, shelf life stability, nutrition labeling, quality assurance parameters, marketing,

sensory evaluation, and packaging of food products.

Title Selected Topics in Nutrition and Food Science. NUFD470

> **Prerequisites** Departmental approval. Starting Winter 2016: NUFD 304 or departmental

approval

Course Description This course provides students with the opportunity to expand their

professional preparation and expertise about selected topics in nutrition and food science not covered in other undergraduate courses. These topics will be based on significant, emerging nutrition and food problems and issues, on new scientific developments and discoveries pertinent to the nutrition and food science professions. May be repeated once for a maximum of 6.0 credits.

NUFD482 Title Nutrition Counseling.

Prerequisites NUFD 304; and NUFD 412 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description This course offers practical experience dealing with the principles of

marketing, adult learning, helping skills, assessment, documentation, and evaluation as related to weight control and the role of food in promotion of a

healthy lifestyle. Six hours of clinical experience is required.

NUFD488 Title Medical Nutrition Therapy.

Prerequisites NUFD 182 or 192 and NUFD 382 and BIOL 243 and CHEM 270.

Special Fee Special fee.

Number and type of credits 4 hours lecture.

Course Description This course enables students to apply nutrition science to the prevention and

treatment of human diseases and medical conditions. Nutrition assessment, diet modification, and specialized nutrition support, such as enteral and

parenteral feeding, are covered.

NUFD489 Title Externship in Food and Nutrition.

Prerequisites NUFD 253 and NUFD 382.

Course Description A supervised experience in selected quantity food services, agencies, clinics

or organizations involved in foods and nutrition problems of the community.

NUFD490 Title Nutrition and Food Science Professional Seminar.

Prerequisites NUFD 130 and NUFD 304; Restricted to Nutrition and Food Science majors with

concentrations in Dietetics (NUFD), Food Systems (NUSY), Food Science (NUSC),

or Applied Nutrition (NUFA).

Number and type of credits I hour seminar.

Course Description A capstone course which provides skills necessary for beginning professionals

in nutrition and food science fields.

NUFD499 Title Medical Nutrition Applications.

Prerequisites NUFD 382; and NUFD 488 may be taken as prerequisite or corequisite. Number and type of credits 2 hours lecture. **Course Description** Provides an overview of the concepts, principles and methodology for nutrition assessment. Emphasis is placed on practical application and case models. NUFD501 Title Principles of Nutrition. Number and type of credits 4 hours lecture. **Course Description** Topics include advanced study of the biochemical and physiological aspects of human nutrition with emphasis on vitamins, minerals, lipids, protein, carbohydrate, water and energy. Research and Evaluation in Nutrition and Food Science. NUFD506 Title Number and type of credits 1 - 3 hours lecture. This course gives students a foundation in the design of research in Nutrition **Course Description** and Food Science, and in the analysis of research data in these fields. Students critically evaluate, interpret, and summarize reports of research in articles published in health, nutrition and food science journals. They develop knowledge and skills for posing research questions in Nutrition and Food Science, designing studies to answer the questions, detecting threats to validity of the research, identifying appropriate techniques for analyzing data, performing nutrition/food science data analyses, and reporting on the NUFD506 **Course Description** results in a format suitable for publication in an academic journal. NUFD507 Title Research in Nutrition and Food Science. **Prerequisites** NUFD 304; Nutrition and Food Science (NUFS) majors only. Starting Winter 2016: NUFD 501; and NUFD 506 may be taken as prerequisite or corequisite. Special Fee Special fee. Number and type of credits 3 hours lecture. **Course Description** Designed to provide basic research and statistical literacy so that students can develop a research proposal in its entirety in nutrition and food science. NUFD508 Title Independent Study in Nutrition and Food Science. **Prerequisites** Departmental approval. **Course Description** An opportunity to study in-depth areas of nutrition and food science which are

credits as long as the topic is different.

not offered in the regular curriculum. May be repeated for a maximum of 6.0

NUFD509 Title Research Seminar.

Prerequisites NUFD 507.

Number and type of credits 3 hours seminar.

Course Description Carrying out a research study on specific problems of limited scope. Work to

be taken in nutrition and food science.

NUFD557 Title Food Safety.

Special Fee Special fee.

Number and type of credits 3 hours lecture.

Course Description This course is offered for those who must understand food sanitation and

safety for effective food management and production. The course emphasizes the understanding of food safety and food sanitation risk management and microbial food contaminants as it encompasses changing federal and state compliance regulations including Hazard Analysis Critical Control Point (HACCP), good manufacturing practices and Safe, Sanitary Operational

Procedures (SSOP).

NUFD560 Title Advanced Nutrition Counseling for Diverse Population Groups.

Prerequisites NUFD 501 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description Topics include ethnic variations in health care beliefs; culturally sensitive

nutrition counseling skills, developmental skills and dietary behaviors of

children, adolescents and aging adults and nutrition counseling approaches for

these age groups. Six hours of nutrition counseling clinical experience

required.

NUFD570 Title Selected Topics in Nutrition and Food Science.

Number and type of credits 1 hours lecture.

Course Description This course provides students with the opportunity to expand their

professional preparation and expertise about selected topics in nutrition and food science not covered in other graduate courses. These topics will be based on significant, emerging nutrition and food problems and issues and on new scientific developments and discoveries pertinent to the nutrition and food science professions. Such issues could include spects putrition

food science professions. Such issues could include sports nutrition,

nutrition in complementary care, environmental nutrition, advanced clinical nutrition, research methodology, gerontology nutrition, and sustainable food

systems.

NUFD572 Title Food Systems: Politics and Ecology. 3 hours lecture. Number and type of credits **Course Description** In this course, students engage in a comprehensive examination of the systems of production, processes, and distribution of food throughout the food chain. They give particular attention to critically examining the agribusiness model through analysis of the role and impact of government and politics in food processes and distribution. To enhance their understanding of the competing ideologies and micro and macro food economic concepts and effects, students NUFD572 **Course Description** explore current events and learn from guest speakers as well as reading current journal articles. NUFD573 Title Food and Nutrition Regulations and Compliances. Number and type of credits 3 hours lecture. **Course Description** This course will provide an in-depth understanding of the legal and regulatory compliances of food and dietary supplement products in the United States. Topics will cover issues such as food and food safety regulation, regulatory compliance, Hazard Analysis Critical Control Points (HACCP), International Standards Organization (ISO), the regulation of Genetically Modified Organisms (GMOs), food additives, food labeling, dietary supplements and, more recently, the protection of the food supply from bio or chemo terrorism or "food security." NUFD577 Title Social Marketing in Nutrition. **Prerequisites** NUFD 501 may be taken as prerequisite or corequisite. Number and type of credits 3 hours lecture. **Course Description** Social Marketing in Nutrition course entails a comprehensive view of the applications of social marketing in the design, implementation, and evaluation

Social Marketing in Nutrition course entails a comprehensive view of the applications of social marketing in the design, implementation, and evaluation of nutrition education programs. Social marketing is an audience-centered approach that focuses on multiple, reinforcing channels of communication along with environmental changes to influence behavior. Highlights of social marketing will be presented in light of its usefulness and applicability to

nutrition education.

NUFD580 Title Current Applications in Nutrition.

Number and type of credits 3 hours lecture.

Course Description This course enables students to develop detailed and in-depth knowledge of

recent findings in human nutrition and to apply this knowledge by learning how

to write a grant application for funding. Emphasis is placed on the critical review and analysis of recent developments in nutrition research and

developing a successful proposal.

NUFD581 Title Nutrition Education.

Prerequisites NUFD 501 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description This course is designed to provide students with skills for developing,

implementing, evaluating and funding nutrition education programs for

populations with various demographic characteristics.

NUFD583 Title Nutritional Aspects of Food Processing and Handling.

Prerequisites NUFD 501 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description A course designed to study the theory and practice of evaluating food

processing from a nutritional standpoint and to compare food availability with the effects that various kinds of processing have on nutrient content. This course is appropriate for graduate students and selected seniors in food and nutrition, food service management, biology, chemistry, and health sciences.

NUFD585 Title Food and Nutrition Issues.

Prerequisites NUFD 501 may be taken as prerequisite or corequisite.

Number and type of credits 3 hours lecture.

Course Description An investigation of current issues in food and nutrition with an emphasis on

consumer, food industry, government and professional perspectives.

NUFD587 Title Practicum.

Prerequisites NUFD 501 and NUFD 595. Departmental approval.

Number and type of credits 3 hours practicum.

Course Description This practicum provides students in nutrition, food science and food

management with planned supervised experiences in a variety of selected

business, agencies or organizations offering nutrition education or

food-related services. Students engage in experiential and in-class work at a

NUFD587 Course Description specific corporate setting, agency or organization, depending on their

professional goals and previous experiences. They work productively with

business, agencies and/or organizations for a total of 90 hours.

NUFD588 Title

Organizational Behavior in Food Businesses.

Number and type of credits

3 hours lecture.

3 hours lecture.

Course Description

In this course, students critically assess principals of management currently being used in the food industry. In doing so they learn novel approaches to organizational structure and policy and decision-making in the manufacturing, retail restaurant and institutional food sectors. Students analyze food

systems and the economic and production activities of food businesses by using

economic theories and case studies.

NUFD590 Title

Title Nutrition Policy.
Prerequisites Graduate Standing.

Number and type of credits

Course Description

This course introduces students to theories, models, and analytic frameworks

for understanding the dynamics of policy making and evaluation processes that address nutrition policy problems. Students develop a project for evaluating policy decision-making, outcomes and impacts. Case studies are used as a teaching tool to underscore policy lessons, facilitate small group discussion, and introduce students to several policy initiatives (i.e., School Meal

Programs, Food stamps, Special Supplemental Nutrition Program for Women,

Infants and Children).

NUFD595 Title

Title Principles of Food Science.

Prerequisites

Number and type of credits

3 hours lecture.

Course Description

This course provides students with advanced knowledge in food science, giving

them in-depth exposure to key elements of this growing field of study. \\

Students learn about principles and processes in chemistry and microbiology that are essential to work in food science. They explore the processing of food and food products. They examine concepts of food preservation, the

packaging and marketing of foods and global food issues.

A college level chemistry course or permission of instructor.

NUFD668 Title

Nutrition Assessment.

Prerequisites

Anatomy and Physiology, Chemistry, Biochemistry, Nutrition, or NUFD 501

(Principles of Nutrition), or departmental approval. Starting Winter 2016:

NUFD 501 or departmental approval.

Number and type of credits 3 hours lecture.

Course Description This course covers the systematic principles and comprehensive steps of human

nutrition assessment. This includes screening of nutritional status, planning nutrition intervention as well as implementation and evaluation of nutrition intervention processes. The tools and techniques used in nutrition assessment

will be utilized by the students in this course.

NUFD698 Title Master's Thesis.

Prerequisites Departmental approval.

Course Description Independent research project done under faculty advisement. Students must

follow the MSU Thesis Guidelines, which may be obtained from the Graduate School. Students should take NUFD 699 if they don't complete NUFD 698 within

the semester.

NUFD699 Title Master's Thesis Extension.

Prerequisites NUFD 698.

Course Description Continuation of Master's Thesis Project. Thesis Extension will be graded as

IP (in Progress) until thesis is completed, at which time a grade of Pass or

Fail will be given.

PALG210 Title Law and Litigation.

Number and type of credits 3 hours lecture.

Course Description An introduction to the legal system with a focus on the New Jersey court

PALG210 Course Description system. Review of substantive areas of law and application of procedural

concepts from initiation of a civil lawsuit through entry of judgment. The unique role and function of attorney and paralegal in the process of client interviewing, ethical considerations, investigation and preparation for trial.

Drafting of pleadings and other documents used in litigation and trial.

PALG301 Title Criminal Law and Procedure.

Prerequisites PALG 210 or JUST 200 or JUST 201 or departmental approval.

Number and type of credits 3 hours lecture.

Course Description Legal concepts of criminal law and their application to criminal procedure.

Contrast between civil law and criminal law. Study of crimes against persons, property and the public. Searches and seizure, arrest and interrogation. Students may take PALG 301 or POLS 321 but not both courses as part of the