HUMAN MEDICINE

691*. Research Clerkship

Fall, Spring, Summer. 2 to 6 credits in increments of 2 credits. May reenroll for a maximum of 6 credits.

P: HM 690 or approval of community research director R: Grad Prof Students in College of

Human Medicine

Students will be engaged in basic, behavioral or clinical research projects with a written outcome QP: HM 690 QA: HM 690

HUMAN NUTRITION AND FOODS

HNF

Introduction to Nurtition and Food 150. Science

Fall, , Summer. 3(3-0) Interdepartmental with the Department(s) of Food Science,.

Nutrition needs in life stages from a human ecological perspective. Domestic and international factors affecting the availability of a safe, nutritious food supply. Relationships of food choices to health and disease. QA: HNF 102 FSC 101

200.

Physical and Chemical Properties of Foods

Fall. 3(2-2) P: CEM 141 or concurrently. R: NONE

NONE NONE NONE

Interrelationships between basic physical and chemical principles and food preparation: composition, methods of preparation, meal planning, evaluation, quality standards and comparative analysis.

QP: CEM 141 QA: HNF 200

220*. Basic Skills in Dietetic Practice

Spring. 2(1-2)
P: CPS 100 or CPS 130 or CPS 131; HNF
150 or HNF 311; STT 200 or C: STT 201 or R: Not open to freshmen. Open only to students in the Department of Food Science and Human Nutrition. Evaluation and communication of scientific and consumer information. Sources of reliable food and nutrition information. Statistics. Nutritional epidemiology, nutrient composition, and computer diet analysis.

QP: HNF 102 ORHNF 200ORFSC 101 QA: HNF 290

300*. Experimental Approaches to Foods

Spring. 3(2-3)
P: HNF 200, CEM 143. R: Open only to
Dietetics and Human Nutrition majors. Not open to students with credit in FSC 401.

Effects of various treatments on chemical and physical properties of carbohydrates, proteins, lipids and other constituents of foods. Effects of changes in chemical and physical properties on functional and sensory attributes of foods. QP: HNF 200 CEM 143

QA: HNF 300

311*. Principles of Human Nutrition

Spring. 3(3-0) P: BCH 200. R: None None None None A human ecological approach to identification, func-tion and food sources of nutrients required by humans. Normal metabolism. Effects of deficiencies or excesses of specific nutrients on metabolism. QP: BCH 200 QA: HNF 411

350*. Food and the Consumer

Fall. 3(3-0) P: HNF 200; EC 200 or EC 201; MTA 302

or concurrently.

Introduction to consumer behavior relative to food and food services. Food consumption and expenditure trends. Factors influencing food consumption and expenditures. Consumer advocacy and consumerism. QP: HNF 200 EC 201MTA 302ORCONCURRE

375*. Community Nutrition

Spring. 3(3-0) P: HNF 150 or HNF 311.

Dietary and anthropometric assessment of population groups. Policies, programs and resources available to address community nutritional needs. QP: HNF 102 QA: HNF 375

Basic Nutritional Counseling

Spring. 3(2-3)
P: HNF 150 or HNF 311. R: Not open to freshmen. Open only to students in Department of Food Science and Human Nutrition. Interviewing. Medical records and dietary history. Assessment of nutritional status. Planning, imple-

menting, and evaluating nutritional programs. Quality assurance. Professional ethics. QA: HNF 379 QP: HNF 102 ORHNF 411

400*. Art and Science of Food Preparation

Spring. 1(1-3) P: HNF 200.

Art and science of food preparation in relation to cost, health, and historical, regional, ethnic, and religious customs. Product evaluation using sensory techniques. QP: HNF 200 QA: HNF 406L

404*. Food Product Development

Fall. 4(3-3) P: FSC 401 or HNF 300. R: Not open to freshmen and sophomores.

Functions of proteins, carbohydrates, and fats, and their interactions with other food ingredients. Objective and sensory food evaluation techniques.

QP: HNF 300 ORFSC 333 QA: HNF 403 HNF 404

Sociocultural Aspects of Food 406*.

Spring. 3(3-0)

R: Not open to freshmen and sophomores.

One ISS "B" course option or concurrently.

Factors impacting food consumption from a human ecological perspective. International and national food consumption patterns. Geographic, political, and economic aspects of food consumption. Food availability and distribution. Family structure, taboos, r QA: HNF 406

Sensory Assessment of Foods Spring. 2(1-2) P: STT 201 or STT 315 or STT 464; HNF 410%

200 or FSC 401. R: Open only to majors in Department of Food Science and Human Nutrition.

Discriminative, consumer and descriptive methods used to evoke, measure, analyze, and interpret sensory reactions to food characteristics. QP: STT 201 ORSTT 315ORSTT422 HNF 310

440*. Foodservice Operations

Fall. 3(3-0) P: HNF 150 or HNF 311; HNF 200. R:

Not open to freshmen and sophomores. Principles, processes and control strategies in foodservice operations. Menu planning, procurement, and on-premise storage and issue. Production, consumer distribution, safety and sanitation. QP: HNF 200 ORHNF 102ORHNF 411 HNF 440 QA:

441*. Management of Foodservice Operations

Operations
Spring. 2(2-0)
P: HNF 440 R: Juniors and above None None-None

Human-and-material-resources fiscal management using manual and electronic data processing strategies in foodservice operations. QP: HNF 440 QA: HNF 441

444*. Computerized Foodservice Management Laboratory Fall. 1(0-3)

P: CPS 100 or CPS 130; HNF 441. R:

Open only to majors in Dietetics, Foods: Technology and Management, Human Nutrition, and Nutritional Sciences.

Use of prototype foodservice management software for inventory management, recipe adjustment, recipe and menu precosting, nutrient analysis, cost analysis, and other foodservice applications.

QP: HNF 440 QA: HNF 441

445*. Foodservice Management

Experience

Spring. 2(1-4) P: HNF 441, MPH 205. R: Open only to seniors in Dietetics and graduate students in Human Nutrition, approval of department.

Receipt, storage, preparation and service of foods. Safety and sanitation. Design, layout, and care of equipment. Costing. Meal tickets required. QP: HNF 440 MPH 2000RMPH 301 HNF 440P

450*. Contemporary Cases from the Food

Industry Spring. 3(3-0) P: HNF 350, MTA 300, MTA 302. R: Open only to seniors and graduate students in the College of Agriculture and Natural Resources, College of Business, and College of Human Ecology.

Analysis and interpretation of the consumer environment. Development of effective strategies and policies for the food industry. Case study approach. QP: MTA 300 MTA 302 QA: HNF 415

460*. Advanced Human Nutrition

Fall. 5(5-0) P: BCH 200 or BCH 401; HNF 150 or

HNF 311; PSL 250.

Metabolism of carbohydrates, proteins, fats, vitamins, and minerals as related to dietary requirements and disease processes in humans. Recommended dietary allowances of nutrients. Metabolism of nutrients. Food

sources of nutrients. QP: BCH 200 PSL 2410RPSL 432 461 HNF 462 QA: HNF

463*. Nutrition and Human Development Fall. 3(3-0)

P: HNF 460 or concurrently. Role of nutrients in anatomical, physiological, and biochemical processes as related to human growth and development. Nutrition throughout the life cycle. Nutritional assessment and programs.

QP: HNF 462 QA: HNF 463

Clinical Nutrition and Dietetics 470*.

Spring. 4(3-2) P: BCH 200 or BCH 401; HNF 460; PSL 250 or PSL 431. R: Not open to freshmen and sopho-

Anatomical, physiological and biochemical changes associated with diseases. Nutritional assessment. Use of modified diets as adjuncts to other therapies. QP: HNF 462 QA: HNF 470 HNF 470P

Interpretation of Clinical Laboratory Tests in Dietetics Fall. 3(3-0) P: HNF 460 or concurrently.

Principles, procedures and interpretation of clinical laboratory tests. Interrelationships of nutrition and the biological sciences. Relationships of test results to total nutritional care QP. HNF 462 QA: HNF 473

480*. Concepts of Human Nutrition Research Methods

Spring. 2(1.3)
P: HNF 311 or HNF 460; FSC 455. R:
Open only to seniors and graduate students. Approv-

al of department. Issues and techniques involved in nutrition research with humans and animals. Guided laboratory experience plus independent project.

HUMAN NUTRITION AND FOODS

OP: HNF 411 ORHNF 461HNF 462FSC 455

490* Independent Study

Fall, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 10 credits.

R: Open only to junior and seniors in Department of Food Science and Human Nutrition. Approval of department.

Individual study of selected topics in foods, foodservice management or nutrition. QA: HNF 495

490H*.

Honors Independent Study Fall, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 10 credits.

R: Not open to freshmen and sophomores. Open only to honors students. Approval of instructor. Individual study of selected topics in foods, foodservice management or nutrition. QA: HNF 400H

494*. Practicum

Fall, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 10

R: Open only to majors in Departemnt of Food Science and Human Nutrition. Approval of department.

Proffesional experience in selected settings and organizations under faculty supervision. QA: HNF 498

840*. Human Nutrition and Chronic Diseases

Fall of odd-numbered years. 3(3-0) P: BCH 401, HNF 460. R: Open only to

graduate students.

Dietary intervention and treatment of chronic diseases: obesity, cardiovascular disease, diabetes, gastroin-

testinal disorders and cancer. QP: HNF 462 ANDBCH 401

Community Nutritional Assessment Summer of even-numbered years.

3(2-2) P: HNF 460, CEP 932 or approval of

department R: 6 and above Nutritional assessment of population groups in community settings; interpretation of national and inter-national health data.

QP: HNF 462 CEP 905OR DEPT.APPROVAL

Supervised Individual Study 890*. Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6

P: HNF 460. R: Open only to graduate students. Students are limited to a combined total of 10 credits in HNF 890 and HNF 894. Faculty supervised study of nutrition areas of individ-

ual interest. QP: HNF 462 HNF 813C

QA: HNF 813A HNF 813B

Topics in Human Nutrition(MTC) Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 12 891*. credits.

R: 6 and above

Topics of current interest and importance in applied and basic human nutrition. QA: HNF 840

891A*. Topics in Human Nutrition: Current Trends in the Food Industry

. 2(2-0) May reenroll for a maximum of 4 credits.

R: 6 and above

In-depth analysis of selected current global trends related to food science and human nutrition from a managerial, technological and environmental perspec892*. Nutrition Seminar

Spring. 1(1-0) May reenroll for a maximum of 6 credits. R: Open only to graduate students.

Presentations by students on current topics in nutri-

QA: HNF 800

Human Nutrition Practicum

Fall, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits.

P: HNF 460. R: Open only to graduate students. Students are limited to a combined total of 10 credits in HNF 890 and HNF 894. Approval of department.

Experience in agencies or offices related to Human Nutrition. Field experience required. QP: HNF 462

Master's Thesis Research

Fall, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 20 credits.

R: Open only to masters students in Human Nutrition and Foods.

QA: HNF 899

935*. Nutrition: Lipid and Carbohydrate Metabolism

Fall of even-numbered years. 3(3-0) Interdepartmental with the Department(s) of Animal Science,. P: HNF 460 or ANS 313, and BCH 462 R: 6 and above

Regulatory aspects of lipid and carbohydrate metabolism as influenced by nutritional status, QP: BCH 452 HNF 4620RANS 313A HNF 935

938*. Nutrition: Metabolism and Function of Vitamins
Spring of odd-numbered years. 3(3-0)

Interdepartmental with the Department(s) of Animal Science P: HNF 460 or ANS 313; BCH 462 R: 6

and above Metabolic and functional aspects of vitamins; regulatory roles at cellular and molecular level. QP: BCH 453 ANS 313AORHNF 462 HNF 938

999* Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 24 credits. May reenroll for a maximum of 50 credits R: Open only to doctoral students in

QA: HNF 999

Human Nutrition and Foods.

INTEGRATIVE STUDIES IN ARTS AND HUMANITIES IAH

207*. United States and the World (D)

201*. United States and the World (D)
Fall, Spring, Summer. 4(4-0)
R: Designated score on English placement
test or completion of a Tier I writing course. Concurrent registration in writing tutorial required for
students receiving 1.0 or 1.5 in Tier I writing course.
Major issues in development of US society and culture, presented in international and comparative context Influences from native Americans, Europeans, Africans, and Asians. Organized historically, with tehmatic emphasis on literature and the arts. QP: ATL XX2 ORENG 1010RMC 112 QA: HST 122 HST 133

211A*. Area Studies and Multicultural Civilizations: Africa (I)

Spring. 4(4-0)
P: IAH 201.

Arts and humanities of Africa: literature, art, music, religion and philosophy presented in historical context. Selected regions, cultures, and themes. Variable by term. QA: HUM 295

211B*. Area Studies and Multicultural Civilizations: Asia (I) Fall, Spring. 4(4-0) P: IAH 201.

Arts and humanities of Asia: literature, visual arts, music, religion and philosophy presented in historical context. Selected regions, cultures, and themes. Vari-QA: HUM 296 HUM 297 HUM 298

211C*. Area Studies and Multicultural Civilizations: The Americas (D)

Fall, Spring. 4(4-0) P: IAH 201.

Arts and humanities of the Americas: literature, visual arts, music, religion and philosophy presented in historical context. Selected regions, cultures, and themes. Variable by term.

211D*. Area Studies and Multicultural Civilizations: The Middle East (I) Fall. 4(4-0) P: IAH 201.

Arts and humanities of the Middle East: literature, visual arts, music, religion and philosophy presented in historical context. Themes variable by term. QA: HUM 294

Great Ages: The Ancient World (I) Fall, Spring. 4(4-0) P: IAH 201. 221A*.

Arts and humanities of the ancient world examined through the frame of urban and intellectual life. Literature, visual arts, music, religion and philosophy presented in historical context. Selected regions and themes, variable by term. QA: HÚM 201 HÚM 202

Great Ages: The European Renaissance 221B*. Fall of odd-numbered years, 4(4-0) P: IAH 201.

Arts and humanities of Renaissance Europe: literature, visual arts, music, religion and philosophy pre-sented in historical context. Selected themes, variable

Great Ages: The Modern World (I) Foll, Spring. 4(4-0) 221C*. P: IÁH 201

Arts and humanities of the modern world, examined through the frame of urban and intellectual life. Literature, visual arts, music, religion and philosophy presented in historical context. Selected regions and themes. Variable by term. QA: HUM 203 HUM 204

231A*. Themes and Issues: Human Values and the Arts and Humanities Fall, Spring. 4(4-0) P: IAH 201.

Values of individualism, responsibility, love, community, and rationality. Students are introduced to diverse methods and materials from the arts and humanities.

231B*. Themes and Issues: Moral Issues and the Arts and Humanities Fall, Spring. 4(4-0) P. IAH 201.

Human conflict and moral dilemmas, addressed through diverse methods and materials from the arts and humanities.