

Descriptions—Human Nutrition and Foods of Courses

473. 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. Approval of department. Issues and techniques involved in nutrition research with humans and animals. Guided laboratory experience plus independent project.
QP: HNF 411 or HNF 461, HNF 462, FSC 455

490. Independent Study

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course.
R: Open only to juniors and seniors. 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. A student may earn a maximum of 10 credits in all enrollments for this course.
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. A student may earn a maximum of 10 credits in all enrollments for this course.
R: Open only to majors in Department of Food Science and Human Nutrition. Approval of department. Professional 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)
R: Open only to graduate students in Food Science, Human Nutrition, and Nursing. Dietary intervention and treatment of chronic diseases: obesity, cardiovascular disease, diabetes, gastrointestinal disorders and cancer.
QP: HNF 462, BCH 401

843. Community Nutritional Assessment
Spring, 3(2-2)

R: Open only to graduate students in Food Science, Human Nutrition, and Nursing. Nutritional assessment of population groups in community settings. Interpretation of national and international health data.
QP: HNF 462, CEP 905 or DEPT APPROVAL

890. Supervised Individual Study

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in Food Science and Human Nutrition. Students are limited to a combined total of 10 credits in HNF 890 and HNF 894. Faculty supervised study of nutrition areas of individual interest.
QP: HNF 462 QA: HNF 813A, HNF 813B, HNF 813C

891. Topics in Human Nutrition (MTC)

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: Open only to graduate students. Current topics in applied and basic human nutrition.
QA: HNF 840

892. Nutrition Seminar

Fall, Spring, 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. Presentations by students on current topics in nutrition.
QA: HNF 800

894. Human Nutrition Practicum

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in Food Science and Human Nutrition. 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

899. Master's Thesis Research

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
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 Animal Science.
R: Open only to graduate students in Food Science, Human Nutrition, Animal Science, and Nursing, and to graduate-professional students. Regulatory aspects of lipid and carbohydrate metabolism as influenced by nutritional status.
QP: BCH 452, HNF 462 or ANS 313A QA: HNF 935

938. Nutrition: Metabolism and Function of Vitamins

Spring of even-numbered years. 3(3-0) Interdepartmental with Animal Science.
R: Open only to graduate students in Food Science, Human Nutrition, Animal Science, and Nursing, and to graduate-professional students. Regulatory roles of vitamins at cellular and molecular levels.
QP: BCH 453, ANS 313A or HNF 462 QA: HNF 938

999. Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 50 credits in all enrollments for this course.
R: Open only to doctoral students in Human Nutrition and Foods.
QA: HNF 999

INTEGRATIVE STUDIES IN ARTS AND HUMANITIES IAH

College of Arts and Letters

201. United States and the World (D)
Fall, Spring, 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 thematic emphasis on literature and the arts.
QP: ATL XX2 or ENG 101 or MC 112 or ENG 104 or LBS 131 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. Variable by term.
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

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

P: IAH 201. 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: HUM 201, HUM 202

221B. Great Ages: The European Renaissance

Fall of odd-numbered years. 4(4-0)
P: IAH 201. Arts and humanities of Renaissance Europe: literature, visual arts, music, religion and philosophy presented in historical context. Selected themes, variable by term.

221C. Great Ages: The Modern World (I)
Fall, Spring, 4(4-0)

P: IAH 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.

231C. Themes and Issues: Roles of Language in Society (D)
Fall, Spring, 4(4-0)

P: IAH 201. Language as the medium of culture in various societies. Power and social identity as manifested through language. Students are introduced to diverse methods and materials from the arts and humanities.

241A. Creative Arts and Humanities: Music and Society in the Modern World (D)
Fall of even-numbered years. 4(4-0)

P: IAH 201. The arts and humanities of the modern world through the prism of music. Music traditions and methodologies in their historic context. Relationship of music creativity to societies in which it has been produced.

**241B. Creative Arts and Humanities:
Philosophy in Literature**
Spring. 4(4-0)

P: IAH 201.
Philosophy and literature, relationships to each other and to societies in which they were produced. Themes such as the meaning of life, God and the problem of evil, and the nature of knowledge. Authors such as Voltaire, Dostoevsky, Wright, and Atwood examined from a variety of perspectives.

**241C. Creative Arts and Humanities:
Cultural and Artistic Traditions of
Europe**
Fall, Spring. 4(4-0)

P: IAH 201.
European artistic and cultural movements and styles, introduced through works of art, music, literature, philosophy and religion. Presented in historical context. Specific eras and works variable by term.

**241D. Creative Arts and Humanities:
Theater and Society in the West**
Spring. 4(4-0)

P: IAH 201.
Artistic creativity seen through the prism of theater. Presented in historical context. Influences from art, literature, music, and religion. Focus on translation of social visions into dramatic art. Plays and themes variable by term.

**241E. Creative Arts and Humanities: The
Creative Process**
Spring of odd-numbered years. 4(4-0)

P: IAH 201.
Philosophical, religious and historical foundations for understanding the process of creation in visual arts, theatre, music and literature. Variations across eras and societies.

**241F. Creative Arts and Humanities:
Traditions in World Art (I)**
Fall. 4(4-0)

P: IAH 201.
Aesthetic qualities of painting, sculpture and architecture within historical contexts across major civilizations. Visual forms in relation to belief systems and musical and literary traditions.

**INTEGRATIVE STUDIES
IN BIOLOGICAL
SCIENCE**

ISB

College Of Natural Science

200. History of Life
Fall, Spring, Summer. 3(3-0)

P: Completion of the University mathematics requirement.
Life from its origin to the dawn of human history. Living things as both the products of evolutionary processes and as a major force driving evolution and altering the environment of planet earth.
QP: MTH 109 or MTH 111 *QA:* ICS 101, NS 125, NS 1824

**202. Applications of Environmental and
Organismal Biology**
Fall, Spring, Summer. 3(3-0)

P: Completion of the University mathematics requirement.
Historical and recent development of ideas about behavior, ecological, and evolutionary processes. Critical evaluation of the use and misuse of human understanding of nature, emphasizing recent findings.
QP: MTH 109 or MTH 111 *QA:* ICS 121, NS 142

**202L. Applications of Environmental and
Organismal Biology Laboratory**
Fall, Spring, Summer. 1(0-2)

C: ISB 202
Problem solving activities based on observation and the analysis of empirically derived data from environmental and organismal biology.

204. Applications of Biomedical Sciences
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
Historical and recent development of knowledge about cellular developmental or genetic processes. Critical evaluation of the use and misuse of scientific discoveries in these areas.
QP: MTH 109 or MTH 111 *QA:* ICS 120

**204L. Applications of Biomedical Science
Laboratory**
Fall, Spring, Summer. 1(0-2)

C: ISB 204
Problem solving activities based on observation and interpretation of selected biological systems in relation to medical science.

206H. Human Biology and Society
Fall, Spring. 3(3-0)

P: Completion of University mathematics requirement.
Conceptual and technological advances in biology. Ethical, legal, social and economic issues which accompany these advances.
QP: MTH 109 or MTH 111

**INTEGRATIVE STUDIES
IN PHYSICAL SCIENCE**

ISP

College Of Natural Science

**201. Concepts of Reality through Physical
Science**
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
Historical and recent development of our understanding of the physical world. Selected topics from the physical sciences, their relationship to one another and to other areas of culture.
QP: MTH 109 or MTH 111 *QA:* NS 135, NS 155, NS 152

**201L. Concepts of Reality through Physical
Science Laboratory**
Fall, Spring, Summer. 1(0-2)

C: ISP 201
Problem solving activities based on observation and interpretation of selected physical systems.
QA: NS 135, NS 155

203. Geology of the Human Environment
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
The scientific method in geological studies: its impact on the human environment and history, and on cultural, social, philosophical, and political decisions.
QP: MTH 109 or MTH 111 *QA:* GLG 200, GLG 201, GLG 306

**203L. Geology of the Human Environment
Laboratory**
Fall, Spring, Summer. 1(0-2)

C: ISP 203
Exercises in the scientific method applied to earth materials and their impact on society.
QA: GLG 200, GLG 201, GLG 306

205. Visions of the Universe
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
C: ISP 205L.
Role of observation, theory, philosophy, and technology in the development of the modern conception of the universe. The Copernican Revolution. Birth and death of stars. Spaceship Earth. Cosmology and time.
QP: MTH 109 or MTH 111 *QA:* AST 119, AST 217, AST 229, NS 135, NS 155, NS 1834

205L. Visions of the Universe Laboratory
Fall, Spring, Summer. 1(0-2)

C: ISP 205
Observations of the sky, laboratory experiments, and computer simulations exploring the development of the modern conception of the universe.
QA: AST 119, AST 217

207. World of Chemistry
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
The language, concepts, models and techniques of chemical science, including atomic theory; nuclear energy; acids; chemicals in air, water, food and biological systems.
QP: MTH 109 or MTH 111

207L. World of Chemistry Laboratory
Fall, Spring, Summer. 1(0-2)

C: ISP 207
Chemical combinations and reactivity with respect to such materials as acids, bases, dyes, foods, and detergents.

209. Physics of the World Around Us
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
Laws of physics through demonstrations and analyses of every day phenomena. Optics, mechanical systems and electromagnetic phenomena.
QP: MTH 109 or MTH 111

**209L. Physics of the World Around Us
Laboratory**
Fall, Spring, Summer. 1(0-2)

C: ISP 209
Physical phenomena: optics, mechanical systems and electromagnetics.

211. The Structure of Matter
Fall, Spring, Summer. 3(3-0)

P: Completion of University mathematics requirement.
Historical and recent development of knowledge about and models of the fundamental structures of all matter. Physical laws governing the structure of matter.
QP: MTH 109 or MTH 111 *QA:* PHY 205

**INTEGRATIVE STUDIES
IN SOCIAL, BEHAVIORAL,
AND ECONOMIC
SCIENCES**

ISS

College Of Social Science

210. Society and the Individual (D)
Fall, Spring, Summer. 4(4-0)

Evolution of human behavior with an emphasis on the individual and society. Family and kinship, social organizations. Societal types, personality, and the life cycle.
QA: S S 201, S S 211, SOC 150

**215. Social Differentiation and Inequality
(D)**
Fall, Spring, Summer. 4(4-0)

Types, causes and consequences of stratification in human societies. Age, class, gender, race and other factors which define social position. Education, occupation, political economy.

**220. Time, Space and Change in Human
Society (D)**
Fall, Spring, Summer. 4(4-0)

Evolutionary, ecological, and spatial theories of adaptation and change. Cultural evolution from prehistoric foraging to the post-industrial age. Continuity and change in the emergence and development of contemporary ways of life.
QA: ANP 250

225. Power, Authority, and Exchange (D)
Fall, Spring, Summer. 4(4-0)

Power, authority, and exchange in organizing societies. Costs and limitations of power. Institutionalization of authority. Systems of exchange: planned vs. market economies.
QA: S S 202

310. People and Environment (I)
Fall, Spring, Summer. 4(4-0)

P: One 200-level ISS course.
Contemporary issues related to the interaction of socio-cultural and ecological systems. Global, regional, national and local environmental problems and responses.
QA: GEO 100