

HUMAN NUTRITION AND FOODS

QP: 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 credits.
 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)
 P: BCH 401, HNF 460. R: Open only to graduate students.
 Dietary intervention and treatment of chronic diseases: obesity, cardiovascular disease, diabetes, gastrointestinal disorders and cancer.
 QP: HNF 462 ANDBCH 401

843*. **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 international health data.
 QP: HNF 462 CEP 905OR DEPT. APPROVAL

890*. **Supervised Individual Study**
 Fall, Spring, Summer. 1 to 3 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.
 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.
 May reenroll for a maximum of 12 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 perspective.

892*. **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 nutrition.
 QA: HNF 800

894*. **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

899*. **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 462ORANS 313A QA: 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 QA: 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 Human Nutrition and Foods.
 QA: HNF 999

INTEGRATIVE STUDIES IN ARTS AND HUMANITIES IAH

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 1 writing course. Concurrent registration in writing tutorial required for students receiving 1.0 or 1.5 in Tier 1 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 ORENG 101ORMC 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. 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.

INTEGRATIVE STUDIES IN 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 ex

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 even-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.

241H*. *Creative Arts and Humanities: Artistic Capital Cities*
 Spring of odd-numbered years. 4(4-0)
 P: IAH 201.
 Artistic and humanistic creativity through the prism of artistic capital cities, such as Vienna or London, where the arts and humanities interacted. Visual arts, music, theater and humanities in historical context. City variable by term.

INTEGRATIVE STUDIES IN BIOLOGICAL SCIENCE ISB

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 ORMTH 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 ORMTH 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 ORMTH 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 ORMTH 111

INTEGRATIVE STUDIES IN PHYSICAL SCIENCE ISP

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 ORMTH 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 ORMTH 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.
 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 ORMTH 111 QA: AST 119 AST 217 AST 229 NS 135 NS 155

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 ORMTH 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 ORMTH 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 ORMTH 111 QA: PHY 205