480. Independent Study  
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 12 credits. Juniors, approval of department. Supervised individual study in a racial or ethnic area of interest.

485. Selected Topics in Racial and Ethnic Studies  
Fall, Winter, Spring. 3(4-0). May reenroll for a maximum of 8 credits. College core or approval of department. Contemporary issues and problems in the minority programs.

495. Senior Seminar  
Spring. 3(4-0). Seniors. Students will identify a major contemporary issue in racial and ethnic problems. A strategy for a solution will be developed and submitted to entire class.

RADIOLOGY  
RAD

College of Human Medicine  
College of Osteopathic Medicine

480. Nuclear Medicine for Medical Technologists  

501. Radiologic Anatomy  
Fall, Summer. 3(2-0). Approval of department. Principles and techniques of X-ray use. Identification of anatomical structures depicted on X-ray films.

525. Fundamentals of X-ray Interpretation  
Fall, Winter, Spring, Summer. 3(3-0). Admission to College of Human Medicine or College of Osteopathic Medicine. Others: approval. Beginning laboratory course in recognition and interpretation of the normal and abnormal X-ray image. Use of X-ray as alternative diagnostic approach in efficient management of patients.

526. Chest Radiology  
Fall. 2(2-0) RAD 526. Principles of chest radiography. Normal chest radiogram and radiographic study of chest diseases, with emphasis on pathophysiologic and anatomic correlation.

527. Traumatology  
Winter. 2(2-0) RAD 527. Clinical and radiographic evaluation of injured patients. Emphasis on efficacy of radiologic procedures.

550. Decision Analysis in Medicine  
Winter of odd-numbered years. 2 to 4 credits. May reenroll for a maximum of 8 credits. Approval of department. Analysis of decisions in medicine, with emphasis on the diagnostic process and clinical judgment.

590. Special Problems in Radiology  
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department. Special aspects of radiology and the use of X-rays in the efficient management of patients.

600. Radiology Clerkship  
(H M 600.) Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 17 credits. H M 602. Office and hospital based experience to acquaint the student with basic radiological information and develop X-ray interpretation skills.

601. Radiology Therapy Clerkship  
Fall, Winter, Spring, Summer. 3(3-0). H M 602, MED 608 and PHD 608 or SUR 609. Basic instruction in radiation therapy procedures and materials.

611. Nuclear Medicine Clerkship  
Fall, Winter, Spring, Summer. 4 credits. H M 602, MED 608 and PHD 608 or SUR 609. Diagnostic and therapeutic procedures in nuclear medicine.

RELIGIOUS STUDIES  
REL

College of Arts and Letters

150. Understanding Religious Man (A)  
Fall, Winter, Spring. 3(3-0). Nature of religion; character of reality; symbolism, myth, sacred space, sacred time; rationalism and the nature of religious knowledge; religion and morals; psychology of religious experience; societal function of religion.

151. Western Religions (A)  
Fall, Winter, Spring. 3(3-0). Historical-comparative approach to Jewish, Christian, and Muslim beliefs, practices, and world-views, including views of God and other supernatural beings, nature and destiny of man, paths for spiritual advancement, death and afterlife.

152. Eastern Religions (A)  
Fall, Winter, Spring. 3(3-0). Historical-comparative approach to Hindu, Buddhist, Confucian, Taoist, and Shinto beliefs, practices, and world-views, including views of: nature of ultimate reality, nature and destiny of man, death and beyond.

220. Old Testament (A)  
Fall. 3(3-0). A study of the history, literature and religion of Israel based on a critical examination of the Biblical texts.

221. Old Testament (A)  
Winter. 3(3-0). A continuation of REL 220.

222. New Testament  
Spring. 3(3-0). A study and analysis of the texts of the New Testament in light of their historical setting.

230. History of Christian Thought: Early and Eastern  
Fall. 3(3-0). Development of Christology and the institutional church, especially in the east from the first to the eleventh century. Gnosticism, Docetism, the Ecumenical Councils and major theologians studied from primary and secondary sources.

231. History of Christian Thought: Tertullian to Erasmus  

232. History of Christian Thought: Erasmus to the Present  
Spring. 3(3-0). Study of key philosophers, theologians, movements, events of these centuries, including reformation, Trent, enlightenment, biblical criticism, modernism, Vatican councils, neorthodoxy, neotaoism; Kant, Hegel, Marx, Troeltsch, Kierkegaard, Newman, Bonhoeffer.

295. Individual Readings  
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 10 credits if a different topic is taken. Approval of department. Supervised independent study of a particular topic in religious studies not covered in the regular courses.

300. Life of Christ  
Fall. 3(3-0). The life of Christ as recorded in the Gospels in light of Christian tradition and ancient and modern scholarship.

302. Writings of St. Paul  
Winter. 3(3-0). Analysis of the major Pauline letters together with the Book of Acts in the light of their significance for the early church and for contemporary Christianity.

305. Christian Ethics and Society  
Winter. 4(3-0). The Biblical and theological basis for social action will be examined, also such areas of contemporary discussion as relation of love to justice, individual ethic to social ethic, situation to principle, the social order.

310. Christianity  
Winter. 3(3-0). Origins and historical development of Christianity, major doctrines and liturgical practices, ethical stance, institutional forms (Eastern Orthodox, Roman Catholic, Protestant), social and cultural contributions, contemporary status and role.

315. Eastern Christianity  
Spring. 3(3-0). Origins, faith and practice of the Orthodox Church in Russia and Eastern Europe, with attention to the history, beliefs and rites of the Coptic, Armenian, Ethiopian, and other Monotheistic and Nestorian Churches and Unitarian movement.
331. Classical Judaism
Fall. 3(3-0)
Major developments in Jewish life and thought from Ezra to Maimonides, including the rise of the synagogue, Sabbath, rabbinate, Talmud, and Midrash. Representative Jewish thought during the Golden Age of Jewish-Arabic culture.

332. Modern Judaism
Winter. 3(3-0)
Major developments in Jewish life and thought in modern times, emphasizing the Hasidic, Reform, Zionist, Conservative, and Reconstructionist movements and reactions against them, and contemporary issues in Jewish thought.

335. Islam
Winter. 3(3-0)
The life and environment of Muhammad, analysis of the Qur'an, basic Islamic law, beliefs, schools of thought, and movements, history and expansion, unity and variety in Muslim civilizations, modern trends.

336. Life of Muhammad and the Qur'an
Spring of even-numbered years. 3(3-0)
Life and teachings of Muhammad as recorded in the Qur'an, Sira, and Hadith. Study of the text and doctrines of the Qur'an, its classical and modern Muslim, and Western interpretation.

337. Modern Islam
Spring of odd-numbered years. 3(3-0)
Major developments in Muslim thought and practice in modern times, with emphasis on reform and revivalist movements and contributions of key Muslim spokesmen in Arabia, Egypt, India/Pakistan, and Turkey.

350. Hinduism
Fall. 3(3-0)

353. Confucianism and Taoism
Spring of odd-numbered years. 3(3-0)
Confucianism, especially Mencius; Taoism especially the Lao-Tzu and Chuang-Tzu; Neo-Confucianism, emphasis on the socio-ethical-political role of Confucianism and the mystical-metaphysical-religious role of Taoism. Current status.

354. Shinto and Japan's New Religions
Spring of even-numbered years. 3(3-0)
Shinto as basis of traditional Japanese society, current status and role; The New Religions of Japan, including their roots, character, current status and role; special attention to Soka Gakkai.

355. Hinayana Buddhism
Fall. 3(3-0)
Siddhattha Gotama and the origins of Buddhism. Theravada in historical development; the Tipitaka and its teachings; epistemology, psychology, logic, science, and world-view; the Sangha and socio-political relations. Current status.

358. Contemporary Theology
Fall. 3(3-0)
Systematic study of contemporary theological schools of thought, an introduction to the theologians who typify these approaches to theology, primarily Christian; various personal, social and political theological issues under discussion today.

370. Religion in American Culture (A)
Fall. 3(3-0)
Historical and interpretative study of religion in American culture from Spanish and French explorations to 1860. Puritanism, deism, revivalist movements, cults, pietism, development of the civil religion of America.

371. Religion in American Culture (A)
Winter. 3(3-0)
Historical and interpretative study of religion in American culture from 1860 to the present. Theological interpretations of the Civil War, industrialism, imperialism, social gospel, black religion, communal movements, cults, 'Americanizing'.

380. Issues in Science and Religion
Winter. 4(4-0) or approval of department.
Juniors or approval of department. Interdepartmental with the departments of Natural Science and Justin Morrill College.

385. Junior-Senior Seminar
Fall, Winter. 1(1-0) Junior majors.
Current issues, problems and opportunities in resource development. Student involvement in discussions, analyses, and presentations on resource problems and possible solutions.

417. Land Economics
Fall, Spring. 3(3-0) Interdepartmental with the Department of Economics, Public Affairs Management and Food Systems Economics and Management.
Factors affecting man's economic use of land and space resources. Input-output relationships, development, investment, and enterprise location; Land markets, property rights; area planning; zoning and land use controls.

420. Water Resource Development
Fall, Winter, Summer. 3(3-0)
Significance of water resources in modern society. Introduction to the needs of industry, agriculture and recreation. Concepts of development, use and conservation are critically evaluated in terms of future needs.

431. Law and Social Change
Fall, Spring. 3(3-0) BOA 440. Interdepartmental with the Department of Urban and Metropolitan Studies and Public Affairs Management and administered by the Department of Urban and Metropolitan Studies.
Law as applied to urban and rural context of social change. A review of both formal and informal aspects of systems and human service.

450. Natural Resource Administration
Fall, Spring. 4(4-0) Seniors. Interdepartmental with the departments of Fisheries and Wildlife, Forestry and Parks and Recreation Resources and Agriculture and Natural Resources. Administered by the Department of Forestry.

455. Natural Resource Economics
Winter. 4(4-0) FOR 450 or approval of department. Interdepartmental with the Department of Fisheries and Wildlife, Forestry, and Park and Recreation Resources and Agriculture and Natural Resources. Administered by the Department of Forestry.
Basic economic and political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.

460. Regional Economics
Winter. 4(4-0) D 417 or EC 324 or FSM 401. Interdepartmental with the Department of Economics, Public Affairs Management and Food Systems Economics and Management.
Forces affecting location decisions of firms, households and governments. Applications to agricultural, industrial, and regional developments.