

**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. 4(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. 4(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**  
Winter. 3(2-2) PHY 237, PHY 257; MTH 109; Junior or Senior Medical Technology majors. Terminology and fundamentals of radionuclides. Application to nuclear medicine. Radiation measurement, protection, biologic effects with discussion of instruments and imaging systems. Principles of radioimmunoassay. Radiopharmaceutical techniques and clinical interpretation.

**501. Radiologic Anatomy**  
Fall, Summer. 2(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. 2(2-0) Admission to College of Human Medicine or College of Osteopathic Medicine. Others: approval of department. 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 525. 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 525. 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.

**609. Radiology Clerkship**  
(H M 609.) Fall, Winter, Spring, Summer. 4 to 17 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.

**610. Radiation Therapy Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. H M 602; MED 608 and PHD 608 or SUR 608. 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 608. 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 achievement, death and after-life.

**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**  
Winter. 3(3-0) A study of representative western theologians from the North African to pre-reformation figures. Development of the papacy, scholasticism, medieval symbolism, and ecclesiastical movements in the western church. Historical roots of modern Christian doctrines.

**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, neoorthodoxy, neothomism; 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 Monophysite and Nestorian Churches and Uniate movement.