

RADIOLOGY† RAD

College of Human Medicine

- 525. Fundamentals of X-ray Interpretation**
Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 6 credits. Admission to College of Human Medicine or College of Osteopathic Medicine. Others: by 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.
- 550. Decision Analysis in Medicine**
Fall, Winter, Spring, Summer. 2 to 4 credits. May re-enroll 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 re-enroll 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**
(HM 609.) Fall, Winter, Spring, Summer. 4 to 17 credits. May re-enroll 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.

RELIGIOUS STUDIES* REL

College of Arts and Letters

- 150. Understanding Religious Man**
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**
Fall, Winter, Spring. 3(3-0)
Beliefs, institutions, and cultural orientations of Western religions, following a comparative approach and comprehending the ancient religion of Israel, Zoroastrianism, Judaism, Graeco-Roman elements, Christianity, and Islam.
- 152. Eastern Religions**
Fall, Winter, Spring. 3(3-0)
Beliefs, institutions, and cultural orientations of Eastern religions, following a comparative approach and comprehending Hinduism, Buddhism, Sikhism, Confucianism, Taoism, and Shinto.
- 220. Old Testament**
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**
Winter. 3(3-0)
A continuation of 220.

†Established July 1, 1975.

*Name change effective February 1, 1973. Formerly Department of Religion.

- 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**
(404.) 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**
(405.) 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**
(406.) 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.
- IDC. Religious Groups in Modern America**
For course description, see Interdisciplinary Courses.

- 295. Individual Readings**
Fall, Winter, Spring. 3 credits. May re-enroll for a maximum of 9 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**
(401.) Winter. 4(4-0)
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.

- 331. Classical Judaism: Ezra to Maimonides**
Fall. 3(3-0)
Early, first-century, and classical Judaism, including Ezra, the Maccabees; Pharisees, Sadducees, Essenes, Zealots; rise of synagogue, rabbinic, festivals; development of Midrashim, Mishnah, Talmud; role of Geonim; contributions of Maimonides.
- 332. Modern Judaism: Maimonides to the Present**
Winter. 3(3-0)
Ashkenazim and Sefardim; European ghetto and shtetl life, Cabala, Hasidim; Reform, Conservative, Orthodox, Reconstructionist movements; Zionism and modern Israel; emphasis on such modern thinkers as Mendelsohn, Rosenzweig, Buber and Heschel.
- 335. Islam**
(443.) 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. 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.
- 350. Hinduism**
(441.) Fall. 3(3-0)
The roots of Hinduism in Vedic tradition and Dravidian religion and the historical development of Hinduism. Hindu beliefs, rituals, practices, philosophical systems, spiritual paths, sects, and caste system. Role of Hinduism in Indian society.
- 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.
- 356. Indian Mahayana Buddhism**
Winter. 3(3-0)
Origins of Mahayana; Madhyamika School; the Prajnaparamita Sutra and metaphysics; doctrine of Emptiness; Mahayana as the religion of the Person of Buddha in Three Bodies; buddhahood and Buddha-land. Hindu influences.

357. East Asian Mahayana Buddhism
Spring. 3(3-0)
Sinicization of Buddhism; Taoist influences; character under different Chinese dynasties; major schools and sects; popular vs. monastic Buddhism; transplantation to Japan and unique developments there; Zen. Cultural contributions. Contemporary status.

360. Contemporary Theology
(458.) 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
(410.) Fall. 3(3-0)
Historical and interpretative study of religion in American culture from Spanish and French explorations to 1860. Puritanism, deism, revivalism, communal movements, cults, pietism, development of the civil religion of "Americanism".

371. Religion in American Culture
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, "Americanism".

372. American Civil Religion
Spring. 3(3-0)
Theological, historical and sociological factors in the development and diversification of American civil religion; sense of identity, mission, and destiny; investigation of the theories of Bellah, Marty, Mead, Herberg, Novak.

400H. Honors Seminar
Fall, Winter, Spring. 3(3-0) Approval of department.

430. Religious Dimensions in Literature
Spring. 3(3-0) Juniors.
Theological criticism in literature and literary works as reflections of Christian thought from ancient to modern times. Specific works studied will vary from term to term.

440. Sociology of Religion
Spring of odd-numbered years. 4(4-0) SOC 241 or approval of department. Interdepartmental with and administered by the Department of Sociology.
Relationship to society, with particular emphasis on modern society. Religion as a social institution; its relation to stratification and to political and economic organization. Forms of religious organizations. Religious believing and the rational, empirical orientation in modern culture.

452. The Protestant Reformation
Fall. 4(3-0) Juniors.
The theological background of the Continental Reformation. Varied patterns of twentieth century theological currents and their off-shoots: Lutheranism, Calvinism, Anabaptists and other radical schools of thought.

The following *Studies* courses offer opportunities for inquiry in depth of a variety of themes, topics or problems in several areas. They are planned for advanced students who have some familiarity with the general area in question. The precise content of each course will vary each time it is taught, thus making available a notable richness of content and interpretation. The student should inquire at the Department of Religious Studies Office for information on the particular courses which will be taught each term.

470. Studies in Sacred Literatures
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

471. Studies in Islam
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

473. Studies in Judaism
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

475. Studies in Christianity
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

477. Studies in Buddhism
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

479. Studies in Hinduism
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

480. Studies in Comparative Religion
3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

495. Individual Readings
Fall, Winter, Spring. 3 credits.
May re-enroll for a maximum of 6 credits if different topic is taken. Written approval of instructor and department.
Enrollment limited to superior upper class students with preference given to majors and to students with at least nine credits in religion or other appropriate preparation.

801. Graduate Studies in Religion
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 12 credits. Approval of department.
Readings on pre-announced topics, individual and group conferences as scheduled, preparation and presentation of research papers.

RESOURCE DEVELOPMENT R D
College of Agriculture and Natural Resources

1DC. Resource Ecology and Man
For course description, see Interdisciplinary Courses.

202. Soils and Man's Environment
Winter. 3(3-0) Interdepartmental with the departments of Crop and Soil Sciences, Fisheries and Wildlife and Natural Resources and administered by the Department of Crop and Soil Sciences.
Use of soil-water resources in a technological society as it relates to environmental quality. Nature of pollution problems and their possible solutions. Food production and world population.

301. Conservation of Natural Resources
Fall, Winter, Spring, Summer. 3(3-0)
Development of conservation movement with broad treatment of basic natural resources (minerals, land, waters, forests, wildlife). Conservation practices and facilities, organizations, and agencies involved in their application. General introduction to field.

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.

401. Production Economics and Management
(AEC 401.) Fall. 4(4-0) Not open to graduate students in Agricultural Economics, Economics or Resource Development. Interdepartmental with Food Systems Economics and Management and Public Affairs Management and administered by Food Systems Economics and Management.
Economic principles of production. Industry supply and factor demand analysis. Management concepts and choice criteria. Interrelationships of production and consumption decisions. Welfare economics. Examples drawn from agriculture.

417. Land Economics
Fall, Spring. 4(4-0) Interdepartmental with the Economics Department, 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 decisions. Land markets; property rights; area planning; zoning and land use controls.

420. Water Resource Development
Fall, Winter, Spring, Summer. 4(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.

435. Law and Resources
Spring. 3(3-0) 417 or BIO 440. Interdepartmental with the Department of Forestry.
Legal theories, cases, statutes and constitutional considerations are applied to natural resource utilization. Private and public property interests in natural resources are illustrated through case studies of use conflicts.

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 Natural Resources. Administered by the Department of Forestry.
Concepts and methods of administering wild-land properties. The legal, economic and social environment. Benefit-cost analysis of management changes. Unit organization, personnel management and accounting. Presents a systems view of administration.

455. Natural Resource Economics
Winter. 4(4-0) 450 or approval of department. Interdepartmental with the departments of Fisheries and Wildlife, Forestry, Park and Recreation Resources 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) 417 or EC 324 or R D 401. Interdepartmental with the Economics Department, 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.