

- 553 Introduction to Radiology**
Spring, 1(1-0) R: Graduate-professional students in colleges of Human and Osteopathic Medicine or approval of department.
Principles of medical diagnostic radiology: means of generating diagnostic images, and anatomical and physiological changes that result in such images.
- 590 Independent Study**
Fall, Spring, Summer, 1 to 3 credits. R: Approval of department.
Special aspects of radiology. Imaging as a diagnostic tool in patient management.
- 609 Radiology Clerkship**
Fall, Spring, Summer, 4 to 8 credits. A student may earn a maximum of 32 credits in all enrollments for this course. R: Completion of two years of graduate-professional program in College of Human Medicine or College of Osteopathic Medicine.
Diagnostic imaging consultation. Participation in image interpretation and observation in hospital or out-patient radiology setting.
- 806 Advanced Neuroscience Techniques Laboratory**
Summer, 3(0-9) Interdepartmental with Neuroscience; Psychology; Pharmacology and Toxicology; Physical Medicine and Rehabilitation. Administered by Department of Neuroscience. P:M: (NEU 804 or concurrently) RB: (PHM 827 and ANT 839 and PSY 811) R: Open only to doctoral students in the Neuroscience major.
Methods of neuroscience research and the underlying principles on which these methods are based.
- 230 Shamanism, Trance and Sacred Journeys**
Fall, 3(3-0)
Shamanic practice in different cultural and religious contexts. Ecstatic, cosmological, and performative dimensions. Healing, sacred knowledge, spiritual journeys, sacred space, presence in world religions, patterns of pilgrimage, theoretical debates regarding shamanism.
- 240 The Hindu Yoga Traditions**
Fall of even years, 3(3-0)
Thought and practices (religious, philosophical, psychological, and social) of the Indian discipline known as Yoga. Yogic systems of the ancient and modern Hindu world.
- 275 Magic and Mysticism: Western Esoteric Traditions and Practices**
Fall, 3(3-0)
Surveys the history of Western esoteric traditions in Europe, England and North America including alchemy, magic, Jewish and Christian mysticisms, and secret or semisecret groups like Freemasonry. Transdisciplinary investigation of religion, science, literature, art and history.
- 290 Independent Study**
Fall, Spring, 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.
- 306 Native American Religions**
Spring, 3(3-0) R: Not open to freshmen
Indigenous forms of spirituality among the Native American peoples. Materials from myth, ritual, ceremonial life, and art as ways of obtaining and sharing religious knowledge. Pervasive spiritual and cosmological themes.
- 310 Judaism**
Fall, 4(4-0) R: Not open to freshmen.
Jewish life, thought, and institutions. Jewish calendar. Second Temple and Rabbinic periods. Talmud and Midrash. Jewish life in Europe and America. Hasidic, Reform, Orthodox, and Conservative movements. Anti-Semitism, Zionism, and the Holocaust. Current issues.
- 315 Religion and Gender**
Spring of even years, 3(3-0)
The relationship between religion and gender viewed through foundational sacred texts and historical interpreters that define gender, sexuality, the body, the divine. Contemporary responses to the relationship between religion and gender through ritual, liturgy, new religious movements, and feminist theology.
- 320 Christianity**
Spring, 3(3-0) R: Not open to freshmen.
Origins and historical development of Christianity. Rituals, institutional forms (Eastern Orthodox, Catholic, Protestant). Monastic and mendicant movements. Major doctrines and their development. Contemporary status and role.
- 330 Islam**
Spring, 4(4-0) R: Not open to freshmen.
Islam from the time of Muhammad to the present. Pre-modern developments: life of Muhammad. Qur'an, Hadith, Islamic law. Sunnis, Shiites, sects and their rituals. Unity and diversity. Modern movements and trends.
- 340 Hinduism**
Fall, 4(4-0) R: Not open to freshmen.
Historical, philosophical and doctrinal development. Vedic Sacrifice, Upanishads, devotional Vashnavism, Yoga and meditation, Tantric and medieval forms, ritual and temple forms. Modern syncretism and interaction with Western world views.
- 350 Buddhism in South Asia**
Spring, 3(3-0) R: Not open to freshmen.
Early origins of Buddhism. Life of the Buddha. Formulation of the Samgha. Pali canon. Three turnings of the Wheel of the Law. Monastic developments vs. lay Buddhism. Buddhist meditation practices.
- 355 Southeast Asian Religions**
Fall, 3(3-0) R: Not open to freshmen.
Southeast Asia as a religious and cultural crossroads. The historic mix of Hinduism, Buddhism, Islam, Christianity, and Chinese religions. Diversity of indigenous animistic religions. Past and present relations between religions and the state.
- 357 Religion and Society in Bali**
Fall of even years, 4(4-0) R: Not open to freshmen.
The nature of Balinese religion. Temple and life-cycle ceremonies. Death and reincarnation. Ancestral temples. Trance and curing.
- 360 African Religion: An Introduction**
Spring of odd years, 3(3-0) R: Not open to freshmen
Variant forms of the religions of Africa. Indigenous African religions examined through their mythology, rituals, symbols, and social consequences. Islam and Christianity. Interaction between religion and politics.
- 370 The End of the World in America**
Spring, 3(3-0)
Examination of the ways in which Americans have anticipated the end of the world. Focus on millennial desires and anxieties within a larger theoretical and historical context. Sacred text, utopian ventures, prophecy, new religious movements, cultural constructions of endtimes theology.
- 410 Hebrew Bible/Old Testament**
Fall, 3(3-0) R: Not open to freshmen or sophomores.
Historical setting and types and meaning of the text of the Hebrew Bible (Christian Old Testament) explored through various techniques of historical, literary, and textual analysis.
- 411 Modern Jewish Thought**
Spring of even years, 3(3-0) R: Not open to freshmen or sophomores.
Representative Jewish thought from the Enlightenment to the present. Authors such as Moses Mendelssohn, Abraham Geiger, Leo Pinsker, Hermann Cohen, Franz Rosenzweig, Ahad Ha-Am, Martin Buber, Mordecai Kaplan, A. I. Heschel, and Emil Fackenheim.
- 420 New Testament**
Spring, 3(3-0) R: Not open to freshmen or sophomores.
The historical setting and types and meaning of the text of the New Testament explored through various techniques of historical, literary, and textual analysis.

RELIGIOUS STUDIES

REL

Department of Religious Studies College of Arts and Letters

101 Exploring Religion

Fall, Spring, 3 credits.

Religion and religions as historical phenomena. Non-textual and textual religions. Theories of the origins and functions of religion. Exemplary voices from various traditions examined in their historical and doctrinal settings.

205 Myth, Self, and Religion

Fall, Spring, 3(3-0)

The mythic quest for meaning, identity, value, and transcendence as seen through religious biography and literary narrative. Myth in relation to religious symbols and life-cycle rituals. Cross-cultural perspective on religious world views and the interpretation of myth as sacred narrative.

210 Religion and Media

Fall, 4 credits.

Portrayal of religion by the media in cultures around the world. Use of the media to promote religious beliefs. Examples from documentary film, television, print media and the internet.

220 Religion in America

Fall, 3(3-0)

History, themes and issues of religions in America from precolonial times to the present.

Religious Studies—REL

- 431 Muhammad and the Qur'an**
Spring of odd years. 3(3-0) R: Not open to freshmen or sophomores.

Life and contributions of the Prophet Muhammad. The Qur'an as a historical source. Origin, compilation, contents, and arrangements of the Qur'an. Forms of the Qur'an: recitation, scripture, calligraphy, theological concept.

- 470 Religious and Secular Cosmologies**
Fall. 3(3-0) R: Not open to freshmen or sophomores.

Cosmological contents of religions. Religious questions

raised by secular cosmologies. Perspectives from phenomenology and anthropology of religion.

- 471 The Ritual Process**
Spring. 3(3-0) R: Not open to freshmen or sophomores.

Definitions of ritual. Aspects of ritual, such as repetitiveness and drama. Generic forms of ritual including passage rites, renewal rites, liminality, sacrifice, taboo, and divination. Experience of ritual and its power to inform and transform the participant.

- 475 Anthropological Approaches to Religion**
Fall. 3(3-0) R: Not open to freshmen or sophomores.

Religion and language as distinguishing human traits. The capacity to create symbols and the power of symbols. Early explanations of the origins of religion. Later functional appreciations of religion based on field studies. Leading theorists from different schools of religious studies.

- 480 Comparative Studies in Religion**
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores.

Multidisciplinary topics such as patterns in comparative religion, comparative mysticism, or comparative mythology.

- 490 Independent Study**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

- 491 Special Topics in Religious Studies**
Fall, Spring. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Special topics supplementing regular course offerings, proposed by faculty on a group study basis.

- 499 Senior Thesis Research (W)**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:M: Completion of Tier I writing requirement. R: Approval of department.

Individual research project supervised by a faculty member that demonstrates the student's ability to do independent research and submit or present a major paper.

- 890 Independent Study**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

- 302 Natural Resource Issues**
Fall, Spring. 3(3-0) P:M: (EC 201 or EC 202) RB: (RD 200) R: Open only to sophomores or juniors or seniors in the Public Resource Management or Environmental Studies and Applications majors.

Analytical frameworks and concepts in resource development and use. Property rights. Market and non-market allocations. Stakeholder perspectives. Role of scholar-practitioner.

- 313 Grantwriting and Fund Development**
Fall. 3(3-0)

Theoretical and practical background for proposal writing. Program and strategic planning. Fund-raising and institutional advancement.

- 314 Environmental Assessment of Land Uses**
Fall. 3(3-0) RB: (RD 200)

Environmental issues related to land-use. Environmental assessment for land-use decisions. Data acquisition and processing techniques. Spatial analysis methods.

- 315 Applications of Survey Research**
Fall. 3(3-0) R: Open only to juniors or seniors.

Design and use of survey procedures in organizational, community and research settings.

- 316 Land Use and Natural Resource Management**
Spring. 3(3-0) RB: (RD 200)

Natural resource and community issues associated with changes in land use. Adaptive planning and decision making for land use and natural resource management. Environmental and economic analysis. Consensus building and conflict management.

- 320 Resource Management and Planning**
Fall. 3(3-0) RB: (RD 200)

Concepts, principles, and objectives of management and planning. Population dynamics, resource demand, and impact and suitability assessment for sustainable development.

- 324 Water Resource Management**
Spring. 3(3-0) RB: (RD 200)

Interface between the hydrologic cycle and human factors, and resulting environmental consequences. Economic, administrative, policy, and political factors.

- 326 Introduction to Waste Management**
Fall. 3(3-0) Interdepartmental with Fisheries and Wildlife. RB: (RD 200)

Waste management definitions, techniques, technologies, and strategies. Integrative approach to waste management as an environmental, social, and political subject.

- 336 State Environmental Law**
Spring. 3(3-0) RB: (RD 200 and RD 301)

State-level legal and regulatory management of environmental issues. Environmental site assessment and auditing. Regulatory compliance. Permit process. Right-to-know. Land and water use regulation.

- 409 Forest Hydrology**
Spring. 3(2-2) Interdepartmental with Forestry; Crop and Soil Sciences. Administered by Department of Forestry. RB: (CSS 210 and MTH 116) or (MTH 104 or LBS 117) R: Not open to freshmen or sophomores.

Science and technology of the hydrologic cycle and water resources in forest, wildland, wetland, and rural watersheds.

RESOURCE DEVELOPMENT RD

Department of Resource Development College of Agriculture and Natural Resources

- 200 Issues and Applications in Resource Development**
Fall, Spring. 3(3-0)

Interdisciplinary problem solving. Environmental and community development choices. Gender and environmental assessments. Minerals and laws.

- 201 Environmental and Natural Resources**
Fall, Spring. 3(3-0)

Physical, economic, and institutional aspects of natural resource and environmental policy. US doctrines for land, water, mineral, and environmental resource management.

- 211 Introduction to Gender and Environmental Issues**
Spring. 3(3-0) Interdepartmental with Fisheries and Wildlife; Forestry; Environmental Economics and Policy; Women's Studies. Administered by Department of Fisheries and Wildlife. R: Not open to freshmen. SA: PRM 211

The concept of gender. Overview of environment and habitat. Historical gender roles in environmental management. Gender-based theoretical perspectives. Case studies on developing and developed countries. Environmental management with emphasis on fisheries, wildlife and wetlands. Women environmental professionals.

- 300 Environmental Communication and Conflict Management (W)**
Fall, Spring. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in Environmental Studies and Applications. SA: AEE 310, RD 310

Environmental risk communications. Mitigation and public forum management.

- 301 Federal and State Environmental Policy**
Fall, Spring. 3(3-0) R: Open only to sophomores or juniors or seniors in the Public Resource Management or Environmental Studies and Applications majors.

Federal and state environmental policies and processes. Resource conservation and emergency planning. Federal resource laws and regulations.