Accounting (ACCO)

The Jesse H. Jones Graduate School of Management

ACCO 305  INTRODUCTION TO ACCOUNTING (3-0-3)
Survey of basic accounting theory and practice, with emphasis on primary problems of asset valuation and income determination. Preregistration required. Not open to first-year students (freshmen). Enrollment limited.

ACCO 406(S)  MANAGEMENT ACCOUNTING (3-0-3)
Survey of uses of accounting data to plan and evaluate the long-run investment and financing decisions and short-run price, costing, output, and financing decisions of a business firm or public entity. Prerequisites: ACCO 305 and ECON 211.

ACCO 409(F)  FINANCIAL REPORTING AND ANALYSIS (3-0-3)
Study of financial-statement analysis techniques such as ratio analysis and evaluation of earnings quality. Includes in-depth analysis of recent accounting standards related to accounting for leases, stock options, and business combinations. Prerequisite: ACCO 305.

ACCO 497(F)  INDEPENDENT STUDY (3-0-3 each semester)
ACCO 498(S)
Independent study or directed reading on an approved project under faculty supervision. Enrollment by special permission.

Ancient Mediterranean Civilizations (AMC)

The School of Humanities

AMC 200(F)  ORIGINS OF WESTERN CIVILIZATIONS: ATHENS, ROME, AND JERUSALEM (3-0-3)
Interdisciplinary introduction to the three great cultural traditions of ancient Judaism, Greece, and Rome. Primary sources and modern evaluations of their contributions are the focus of lectures and discussions. Not offered 2001–2002.

For more information on courses that may be taken for AMC credit, refer to (pages 81–83).

Anthropology (ANTH)

The School of Social Sciences

ANTH 200(F)  INTRODUCTION TO THE SCIENTIFIC STUDY OF LANGUAGE (3-0-3)
Introduction to concepts and terminology in the scientific study of language. Includes sound systems (phonology), construction of words (morphology), organization of words in the sentence (syntax), meaning (semantics), and information flow (pragmatics), as well as a survey of interdisciplinary uses of linguistics such as historical linguistics (archaeology), dialectology (sociology), and language acquisition (psychology, cognitive sciences, and language teaching). Also offered as LING 200. Instructors: Englebretson, Niedzielski

ANTH 201(F)  INTRODUCTION TO SOCIAL/CULTURAL ANTHROPOLOGY (3-0-3)
Introduction to the history, methods, and concepts of social/cultural anthropology, which is devoted to the systematic description and understanding of cultural diversity in human societies. Instructor: Georges

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 203(F)  HUMAN ANTIQUITY: AN INTRODUCTION TO PHYSICAL ANTHROPOLOGY AND PREHISTORY (3-0-3)
This course offers a broad introduction to the human past as revealed by evolutionary studies of both biochemical and fossil evidence, and by archaeological studies of human cultural behavior. Replaces ANTH 203 Introduction to Physical Anthropology and ANTH 206 Introduction to World Prehistory. Students who have taken ANTH 206 prior to 2000 may not take ANTH 203 for credit. Not offered 2001–2002. Instructor: S. McIntosh

ANTH 205(F)  INTRODUCTION TO ARCHAEOLOGY (3-0-3)
An introduction to the elementary concepts of the discipline through a series of case studies. Instructors: R. McIntosh, S. McIntosh

ANTH 220(S)  CONTEMPORARY CHINA (3-0-3)
An examination of how global forces are transforming contemporary Chinese culture, with special attention to popular culture, media, and the debates over Chinese identity. Also offered as HIST 220. Not offered 2001–2002. Instructors: Lee, Smith

ANTH 290(S)  THE HISTORY AND ETHNOGRAPHY OF THE (TO BE NAAMED) (3-0-3)
This course focuses intensively on the history and ethnography of a single people, the selection of which changes from year to year. Using all available materials, this course provides an introduction to the approaches of the discipline and how they have changed, registered by the different ways anthropologists and others have represented, over time, the same subjects. Not offered 2001–2002. Instructor: Marcus

ANTH 299(F)  CONTEMPORARY CULTURES IN TRANSFORMATION (3-0-3)
Intended as a basic introduction to comparative cultural and international studies. Using multidisciplinary approaches and drawing from a wide range of materials, including books, magazines, movies, the World Wide Web, and the mass media, the course looks at fundamental social and cultural changes in the contemporary world. Not offered 2001–2002. Instructor: Lee

ANTH 300(S)  LINGUISTIC ANALYSIS (3-0-3)
Language as an object of scientific analysis, focused on how different languages organize semantic and pragmatic information into simple sentences. Topics: morphology, syntactic categories and constituency, propositional semantics, tense-aspect-modality, pragmatic information status, grammatical relations, and voice systems. Prerequisite: LING 200 or permission of instructor. Also offered as LING 300. Instructor: Englebretson

ANTH 301(F)  PHONETICS AND PHONOLOGY (3-0-3)
Introductory study of sound and sound systems in the world’s languages. Includes the anatomy and physiology of the speech mechanism with a survey of all linguistic sounds it is known to produce, as well as organized patterns of speech sounds found cross-linguistically and three types of theories modeling these patterns: phonemic, feature-based (e.g., classical generative phonology), and autosegmental. Required for linguistics majors. Prerequisite: LING 200 or permission of instructor. Also offered as LING 301. Not offered 2001–2002. Instructor: Copeland

ANTH 304(F)  CORE CONCEPTS IN ANTHROPOLOGY (3-0-3)
This course critically reviews a set of concepts that have played a major role in shaping anthropology as a distinctive field of enquiry. Historically central concepts, such as culture and evolution, will be examined to illustrate the various ways in which anthropologists have sought to locate, evaluate, and know the “other.” Special attention will be paid to the distinctive historical coloring of both the themes and outcomes of anthropological research. Strongly recommended for department majors. Not offered 2001–2002. Instructors: Faubion, S. McIntosh

ANTH 305(F)  HISTORICAL LINGUISTICS (3-0-3)
Exploration of the nature of language change in its phonological, morphological, syntactic, semantic, and sociocultural aspects, using the perspective of language acquisition. Includes techniques of internal and comparative reconstruction of proto-languages. Prerequisite: LING 200, 300, or 301 or permission of instructor. Also offered as LING 305. Not offered 2001–2002. Instructor: Staff

(F) = fall; (S) = spring
ANTH 306(S)  HISTORY OF ANTHROPOLOGICAL IDEAS (3-0-3)
Introduction to the history of anthropology, its theories, and its methods, with emphasis on social and cultural anthropology. Not offered 2001–2002. Instructor: Faubion

ANTH 307(F)  ANTHROPOLOGICAL DIRECTIONS FROM THE SECOND WORLD WAR TO THE PRESENT (3-0-3)
A sequel to ANTH 306/506, this course explores turns and trends in sociocultural research and critique during the past half-century. Special attention is paid to the rise and fall of structuralism, the problematization of “the primitive,” and the proliferation of theories of “practice.” Instructor: Faubion

ANTH 308(S)  HISTORY AS A CULTURAL MYTH (3-0-3)
Ideas of history and attitudes toward the past as culturally conditioned phenomena. Emphasizes history as a statement of cultural values, as well as conceptualizations of cause, change, time, and reality. Also offered as WGST 336. Not offered 2001–2002. Instructor: Staff

ANTH 309(F)  GLOBAL CULTURES (3-0-3)
This course will examine specific cultural debates and issues that have “overflowed” national boundaries. Topics will include student movements, democracy and citizenship, and the internationalization of professional and popular culture. Not offered 2001–2002. Instructor: Elfimov

ANTH 310(S)  CONTEMPORARY CHINA (3-0-3)
This introductory course is designed to encourage creative ways of thinking about “Cultural China”—a broad-ranging concept that includes the People’s Republic of China, the newly established Special Administrative Region (SAR) of Hong Kong, the Republic of China on Taiwan, and overseas Chinese communities throughout the world. Also offered as ANTH 220, HIST 220, HIST 310. Not offered 2001–2002. Instructors: Lee, Smith

ANTH 311(S)  MASCULINITIES (3-0-3)
This course deals with masculinities in the West, concentrating on concepts of masculine protagonism and personhood. Readings explore identities constructed in realms such as law, politics, finances, art, the home, and war. Also offered as WGST 333. Not offered 2001–2002. Instructor: Taylor

ANTH 312(F)  AFRICAN PREHISTORY (3-0-3)
Thematic coverage of developments throughout the African continent from the Lower Paleolithic to medieval times, with emphasis on food production, metallurgy, and the rise of cities and complex societies. Not offered 2001–2002. Instructor: R. McIntosh

ANTH 313(F)  LANGUAGE AND CULTURE (3-0-3)
Investigates the relation between language and thought, language and worldview, and language and logic. Also offered as LING 313. Instructor: Tyler

ANTH 314(F)  GENETICS: BIOLOGICAL, CULTURAL-HISTORICAL, AND ETHICAL PERSPECTIVES (3-0-3)
The course uses an interdisciplinary perspective to examine the claims and counterclaims made regarding genetics and new technologies for identifying and manipulating genetic material. The course will cover biological basics of genes, DNA, and sequencing techniques; cultural and historical aspects of approaches to genetics, including essentialism and eugenics past and present; ethical issues arising from new genetic technologies; and policy issues. Also offered as UNIV 314 and BIOS 307. Instructors: Georges, Matthews, S. McIntosh

ANTH 316(S)  CULTURAL ANALYSIS (3-0-3)
This course is specifically intended for lower-level undergraduates as a means of gaining familiarity with the analytical tradition of cultural anthropology, from the beginning of the 20th century. The course is intended to provide students with background for upper-level courses in the department. Instructors: Marcus, Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 317(S)  CULTURE IS GOOD TO THINK (3-0-3)
A critical survey of the sources and senses of the working vocabulary of contemporary social and cultural anthropology. Special attention is paid to the strengths and shortcomings of the anthropological habit of borrowing concepts and diagnostic categories from other fields. Strongly recommended for majors and for others interested in advanced course work in the departments. Not offered 2001–2002. Instructor: Faubion

ANTH 319(F)  SYMBOLISM AND POWER (3-0-3)
This course will use both traditional and contemporary readings to emphasize the trend in cultural analysis from a view of culture as monolithic and static to perceptions that any culture is internally varied and contradictory as well as changing and complex. Not offered 2001–2002. Instructor: Taylor

ANTH 320(F)  PUBLIC SPHERES AND PUBLIC CULTURES (3-0-3)
This course will discuss some of the basic issues surrounding civil society and the public sphere. It will look at specific contemporary debates in public culture, such as multiculturalism, identity politics, and the crisis of contemporary liberalism. Not offered 2001–2002. Instructor: Lee

ANTH 322(F)  CULTURES AND IDENTITIES: RACE, ETHNICITY, AND NATIONALISM (3-0-3)
How do cultural conceptions of race, ethnicity, and nationalism shape who we think we are? How are these ideas related to Western views of the relations between nature and society, and how do these differ from those in other cultures? Not offered 2001–2002.

ANTH 325(F)  SEX, SELF, AND SOCIETY IN ANCIENT GREECE (3-0-3)
An introductory venture into conducting fieldwork in the past. The course treats a wide range of artifacts, from philosophical essays to vase paintings. It derives its focus from a rich corpus of recent research into the ancient problematization of desire and self-control. Also offered as WGST 332. Not offered 2001–2002. Instructor: Faubion

ANTH 326  THE ANTHROPOLOGY OF LAW (3-0-3)

ANTH 327(S)  GENDER AND SYMBOLISM (3-0-3)
Examinations of beliefs concerning men, women, and gender in different cultures, including the West, relating to issues of symbolism, power, and the distribution of cultural models. Also offered as WGST 350. Instructor: Taylor

ANTH 328(F)  VIOLENCE, TERROR, AND SOCIAL TRAUMA (3-0-3)
This course addresses the central place of violence in our society and its relations with social and political terror in other cultures. Readings, film, and theater probe everyday violence as well as spectacular violent events of our times. Aftermath, including cross-generational trauma, will be explored. Instructor: Taylor

ANTH 329(S)  BODIES, SENSUALITIES, AND ART (3-0-3)
Cross-cultural approaches to art and the senses. Students may engage any medium. Emphasis to be placed on issues generated from performance in the arts rather than from academia. Contrasts art and academic knowledge to explore alternative epistemologies and aesthetics. Instructor: Taylor

ANTH 330(F)  TOPICS IN THE ANTHROPOLOGY OF EUROPE (3-0-3)
Exploration of the complexities and emerging problematization of the “criteria of belonging,” whether to a family, a place, a nation, or Europe and European civilization as a whole. Not offered 2001–2002. Instructor: Faubion

(F) = fall; (S) = spring
ANTH 332(S) CONTEMPORARY DEBATES ON CULTURE (3-0-3)
This course serves as a platform for the wide-ranging considerations of how culture has come to prominence as the major framework in which the most pressing social and political issues of the day are discussed in the West as well as globally. Class sessions will be developed around in-depth case studies as well as the occasional presentation by nationally and internationally prominent guest speakers. Not offered 2001–2002. *Instructors: Lee, Marcus*

ANTH 335(S) ANTHROPOLOGY AS CULTURAL CRITIQUE (3-0-3)
The critical assessment and interpretation of Euroamerican social institutions and cultural forms have always been an integral part of anthropology’s intellectual project. This course will explain the techniques, history, and achievements of such critique. It will also view the purpose in the context of a more general critical social thought in the West, especially the U.S. Not offered 2001–2002. *Instructor: Marcus*

ANTH 336 THE ART OF ETHNOGRAPHY (3-0-3)
A seminar that explores the experience of doing fieldwork and the problems of transforming theory, field experience, and data into a written account. Emphasis is on reading fieldwork accounts and gaining ethnographic writing skills. Strongly recommended for majors but also for other interested students in the social sciences and humanities. Not offered 2001–2002.

ANTH 338(S) READING POPULAR CULTURE (3-0-3)
The course examines a number of cases from popular genres—romance novels, television sitcoms, tourist sites, movies, and rock music—and submits them to a variety of theoretical approaches from disciplines such as anthropology, sociology, literary studies, and philosophy. Not offered 2001–2002.

ANTH 341 ETHNOGRAPHIC FILM AND THE 20TH CENTURY (3-0-3)
This course focuses on visual media of documentation and description in anthropology, especially on the historical and contemporary relationships between ethnographic film and writing. In addition, the course will place the development of ethnographic film in the context of documentary and narrative film as well as other media, such as television and video. During the course, students will be able to view several exemplars of ethnographic film and other media. Ethnography is the heart of cultural anthropology—both fundamental and representative of it. Film and media are this form’s future, which makes it touch on experiences common to most students, thus defining its accessibility. Not offered 2001–2002. *Instructor: Marcus*

ANTH 342(F) TOPICS IN POLITICAL CINEMA (3-0-3)
This course explores cinema as a source for political analysis and as a vehicle for political representation. Topics will change periodically. Sample topics are: Native American media and transformation of Eastern Europe in cinema. Check with instructor for this semester’s topic. Also offered as WGST 360. Not offered 2001–2002.

ANTH 343(S) NEW RELIGIOUS MOVEMENTS IN AFRICA (3-0-3)
Discuss new religious movements and the religious, sociological, and political factors leading to their rise, also missionary and colonial reactions to them. Examine their relationship to indigenous religions, political praxis, and their focus on this-worldly salvation in the wake of political and economic marginality. Prerequisite: permission of instructor. Also offered as RELI 342. Not offered 2001–2002. *Instructor: Bongmba*

ANTH 344(F) CITY/CULTURE (3-0-3)
The course treats both the theorization and the ethnographic exploration of the urban imaginary; urban spaces and practices; urban, suburban, and post-urban planning; city-states, colonial cities, and capital cities; and the late 20th-century metropolis. Not offered 2001–2002.

ANTH 345(S) THE POLITICS OF THE PAST: ARCHAEOLOGY IN SOCIAL CONTEXT (3-0-3)
An examination of the way that archaeological evidence of the past has been used and viewed by particular groups at different times. Using case studies, the course considers issues of gender, race, Eurocentrism, political domination, and legitimacy that emerge from critical analysis of representations of the past by archaeologists, museums, and collectors. *Instructor: S. McIntosh*

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 347(S)  THE U.S. AS A FOREIGN COUNTRY (3-0-3)
The course looks at selected aspects of American culture and society from an anthropological point of view. Readings derive from the works of both foreign and native observers, past and present.  
Instructor: Faubion

ANTH 350  INDIANS OF THE AMERICAS (3-0-3)
Examines the cultures of Native American peoples throughout the New World. Both pre- and post-contact cultural patterns will be discussed with an emphasis on native and European reactions and responses. Offered occasionally.

ANTH 351(S)  CULTURES OF NATIONALISM (3-0-3)
This course will examine the cultural dimensions of nationalism, particularly around the creation of forms of “peoplehood” that seem to be presupposed by almost all nation-building projects. Texts to be analyzed will include the Declaration of Independence, the U.S. Constitution, and the Declaration of the Rights of Man. Not offered 2001–2002.  
Instructor: Lee

ANTH 353(S)  CULTURES OF INDIA (3-0-3)
Summary of the prehistory, ethnography, and ethnology of the Indian subcontinent, with emphasis on Hinduism, Buddhism, and Indian philosophy.  
Instructor: Tyler

ANTH 356  ETHNOGRAPHY OF TRIBAL PEOPLE (3-0-3)
Some “people,” e.g., the Nuer, the Samoans, the Australian aborigines, the Hopi, and the Navajo, have been studied by anthropologists for decades and, in a few cases, almost a century. This course will review the studies for a particular people, discussing change and permanence in their anthropological description and other related issues. Offered occasionally.

ANTH 358(F)  THE FOURTH WORLD: ISSUES OF INDIGENOUS PEOPLES (3-0-3)
In contrast with people self-identified within political structures of the First, Second, and Third Worlds, Fourth World peoples are, generally speaking, “stateless peoples.” In this course, we will examine both how this “unofficial” status affects their struggle for self-determination and how native peoples engage traditional beliefs and practices for self-empowerment. Through readings, films, and speakers, we will examine current conflicts facing indigenous peoples in North and South America, the Soviet Union, Europe, Asia, and Australia. Not offered 2001–2002.

ANTH 360(S)  MODERNITY AND SOCIAL SPACE (3-0-3)
Modernity can be usefully described as the transmutation of time and space. In this course, we will focus on specific changes in the production of social space. How, for example, is global space produced—legally in international law, economically by multinational corporations, and culturally through satellite communications systems? While changes in the public space of urban/suburban America tell us something about the values of those who produce such space, they also tell us about the cultural and political consciousness/unconsciousness of those who use it. Theories from a variety of disciplines will be mobilized to help us understand these changes in social space. Not offered 2001–2002.

ANTH 361  LATIN AMERICAN TOPICS (3-0-3)
Focus on the widely shared socioeconomic, political, and cultural themes as seen over history and in current events. Not offered 2001–2002.

ANTH 362(S)  ARCHAEOLOGICAL FIELD TECHNIQUES (3-0-3)
Methods used in fieldwork, laboratory analysis, and interpretation of archaeological data from a local site excavated by the class. Prerequisite: ANTH 205.  
Instructor: R. McIntosh

ANTH 363(F)  EARLY CIVILIZATIONS (3-0-3)
A comparative study of the civilizations of Mesopotamia, Egypt, the Indus, China, and the Maya, emphasizing the causes and conditions of their origins. Not offered 2001–2002.  
Instructor: R. McIntosh

(F) = fall; (S) = spring
ANTH 368 PRIMATOLOGY (3-0-3)
An introduction to primate diversity, ecology, and sociality, based on what is now known from field studies of wild primate populations. Not offered every year.

ANTH 370 RADICAL EUROPE (3-0-3)
Emerging formations of radicalism in Europe will be explored through ethnographic and cinematic materials. Readings on the rise of nationalism, racism, and neofascism will be covered. Interviews with western European political leaders conducted by the instructor will be used to probe the cultural fears and aspirations in forming the politics of the extreme Right. Not offered every year.

ANTH 371(F) MONEY AND EVERYDAY LIFE (3-0-3)
Money is such a part of everyday modern life that it is hard for us to imagine living without it. Yet in many pre-modern societies, gift-exchange was as important as money is in our own. This course will look at the cultural dimension of systems of exchange, ranging from gift-giving among Northwest Coast Indians to foreign currency exchanges between financial institutions. Along with the classic work of Marx and Simmel on money and capital, we will also cover some of the anthropological work on gifts and exchange, such as that of Mauss, Levi-Strauss and Bourdieu, as well as some of the contemporary debates initiated by Bataille and Derrida. Instructor: Lee

ANTH 372(S) CULTURES OF CAPITALISM (3-0-3)
Most of us think of capitalism as primarily an economic phenomenon. Yet, it also has a profoundly cultural dimension that includes culturally specific forms of risk taking, speculation, and even money and capital. This course will explore contemporary phenomenon such as speculation, booms and busts, and the stock market, and use them to discuss some of the classic work on the “cultures of capitalism”, including Marx, Simmel, Kracauer, and contemporary writers such as Jameson, DeBord, and Virilio. This is not an introductory course in economics, but will look at how people talk and write about culture and capitalism. Instructor: Lee

ANTH 373(F) THE LINGUISTIC TURN: LANGUAGE, NARRATION, AND MODERNITY (3-0-3)
This course will look at the role of narration and the construction of some of the basic forms of modernity and postmodernity, ranging from nationalism to performative approaches to identity. The first half of the course will introduce the basic linguistic tools necessary to analyze a variety of cultural materials, and the second half will be devoted to analyzing specific texts and student presentations. The course does not presuppose any technical training in linguistic or literary analysis. Also offered as LING 373. Instructor: Lee

ANTH 377(F) THE ANCIENT CITY (3-0-3)
Compare the historian’s and social scientist’s approaches to the emerging preindustrial city. Cities are the products of an interaction of physical and social environments and their histories may reflect their enormous symbolic weight. We use the comparative method to explore general principles of development lurking behind the different faces of ancient urbanism. Also listed as HIST 377. Not offered 2001–2002. Instructors: Maas, R. McIntosh

ANTH 381(S) MEDICAL ANTHROPOLOGY (3-0-3)
Cultural, ecological, and biological perspectives on human health and disease throughout the world. Instructor: Georges

ANTH 382(F) NON-WESTERN CINEMA: THIRD-WORLD CINEMAS (3-0-3)
Study of significant national cinemas, film movements, and filmmakers of the Third World from Africa to Latin America and from the Middle East to China. Includes colonial and postcolonial discourses. Limited enrollment. Also offered as HART 382. Instructor: Naficy

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 383 HUMAN ADAPTATION (3-0-3)

ANTH 386 HUMAN NUTRITION (3-0-3)

ANTH 388(S) THE LIFE CYCLE: A BIOCULTURAL VIEW (3-0-3)
The human life cycle from conception to death. Focus is on the interaction between biological processes and culture. Also offered as WGST 335. Not offered 2001–2002. Instructor: Georges

ANTH 389(S) CULTURE, NARRATION, AND SUBJECTIVITY (3-0-3)
This course examines how linguistic and narrative structures interact to produce specific cultures of interpretation. The focus will be on linguistic and literary representations of subjectivity. This course will use novels by Western authors, such as Virginia Woolf and Dostoevsky, and some Chinese materials as comparison. Instructor: Lee

ANTH 390(F) CULTURE AND COMMUNICATION (3-0-3)
Investigates the relations between different forms of communication—speech, print, film, and cultural constructions such as audiences, publics, and communities. Not offered 2001–2002. Instructor: Lee

ANTH 402(S) SYNTAX AND SEMANTICS (3-0-3)
Study of semantic categories and their formal expression in morphological, syntactic, and lexical units and patterns. Also offered as LING 402. Instructor: Davis

ANTH 403(S) ANALYZING PRACTICE (3-0-3)
A critical review of work informed by what has sometimes been deemed the “key concept” of anthropological theory and research since the 1960s. Special attention will be devoted to the analytics of practice developed by Foucault, Bourdieu, and de Certeau. Instructor: Faubion

ANTH 404 INDEPENDENT STUDY (3-0-3)
Directed reading and preparation of written papers on anthropological subjects not offered in the curriculum or advanced study of subjects on which courses are offered.

ANTH 406(S) COGNITIVE STUDIES IN ANTHROPOLOGY AND LINGUISTICS (3-0-3)
Relations between thought, language, and culture. Special emphasis given to natural systems of classification and their underlying logical principles. Also offered as LING 406. Instructor: Tyler

ANTH 407(F) FIELD TECHNIQUES AND ANALYSIS (3-0-3)
Study of techniques and practice in the observation, analysis, and recording of a human language. Includes discussion of ethical issues in working with indigenous peoples. Limited enrollment. LING 300, 301, and 402 recommended. Prerequisite: permission of instructor. Also offered as LING 407. Instructor: Staff

ANTH 408(S) FIELD TECHNIQUES AND ANALYSIS (3-0-3)
Continuation of ANTH 407/LING 407. Prerequisite: permission of instructor. Also offered as LING 408. Instructor: Staff

ANTH 410 THE ETHNOGRAPHY OF DEVELOPMENT (3-0-3)
This course suggests the necessity of a solid ethnographic grounding for both practical development work and for further intellectual growth of the discipline. Not offered every year.
ANTH 411(S) NEUROLINGUISTICS (3-0-3)
Study of language and the brain. Includes the organization of the brain (e.g., the localization of speech, language, and memory functions), hemispheric dominance, and the pathologies of speech and language associated with brain damage. Also offered as LING 411. Instructor: Lamb

ANTH 412(F) RHETORIC (3-0-3)
Overview of classical theories of rhetoric. Includes intensive discussion of contemporary theories and applications in a wide variety of disciplines. Also offered as LING 410. Instructor: Tyler

ANTH 414(S) HERMENEUTICS AND LINGUISTIC ANTHROPOLOGY (3-0-3)

ANTH 415(F) THEORIES IN MODERNITY/POSTMODERNITY I (3-0-3)
An advanced course for graduate students and undergraduate majors with interests in the interdisciplinary field of cultural studies. Readings in the work of Marx, Weber, Durkheim, Saussure, Gadamer, Derrida, Bakhtin, Foucault, and others. Instructor: Faubion

ANTH 416(S) THEORIES IN MODERNITY/POSTMODERNITY II (3-0-3)
Part one focuses on the relation between critical theory and poststructuralism. Readings from Marx, Althusser, Adorno, and Habermas, cover basic concepts like ideology, reification, etc. Part two looks at new analytical categories of social analysis, such as the body, global culture, and space, etc. Not offered 2001–2002.

ANTH 419(S) LAW AND SOCIETY (3-0-3)
In addition to focusing on works associated with critical legal studies and antecedent legal realism, this course will examine a number of cases in the international domain that challenge concepts of civil society arising with the modern nation-state. Not offered 2001–2002.

ANTH 423(S) AFRICAN MYTHS AND RITUAL (3-0-3)
Explore and analyze specific myths and rituals that provide legitimation for community ceremonies and that serve as a basis for the negotiation of power and ideology for members within that community. Readings from classic theorists: Durkheim, Levi-Strauss, Edmond Leach, Gennap, and Turner; and contemporary theorists: Werbner, Heusch, Comaroff, and Ray. Also offered as RELI 423. Not offered 2001–2002. Instructor: Bongmba

ANTH 425(F) ADVANCED TOPICS IN ARCHAEOLOGY (3-0-3)
Seminar on selected topics in archaeological analysis and theory. The course will variously focus on ceramic analysis and classification, archaeological sampling in regional survey and excavation, and statistical approaches to data analysis and presentation. Prerequisites: ANTH 205 and 362. Not offered 2001–2002. Instructor: S. McIntosh

ANTH 430(F) EXPERIMENTAL WRITING AND ANTHROPOLOGY (3-0-3)
Explores relationships between ethnography and other genres. Emphasizes experimental styles, including combinations of ethnographic and personal material, and problems of writing to communicate experiences of things like violence and art. Instructor: Taylor

ANTH 446(S) ADVANCED TOPICS IN BIOMEDICAL ANTHROPOLOGY (3-0-3)
Seminar on contemporary research in the biomedical aspects of human health and disease. Includes topics from medical ecology and epidemiology. Prerequisite: ANTH 381 or permission of the instructor. Not offered 2001–2002. Instructor: Georges

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 447(F)  MODERN ETHNOGRAPHY AND THE ETHNOGRAPHY OF MODERNITY (3-0-3)
This course explores the strategies of representation, the methodologies, and the diagnostic categories to which anthropologists have resorted in coming to terms with such phenomena as rationalization, economic and informational globalization, and the commodification of culture. Not offered 2001–2002. Instructor: Faubion

ANTH 450(S)  ANTHROPOLOGY IN THE CONTEMPORARY WORLD: A SEMINAR FOR MAJORS (3-0-3)
This seminar is designed specifically for juniors and seniors who have declared anthropology as a major, and is intended as an opportunity for them to survey the various applications and points of relevance of anthropology in the rapid transformations of contemporary societies and cultures. It is meant to both assess and challenge the forms of knowledge that anthropology has produced since its inception as a discipline. Instructor: Marcus

ANTH 458(S)  HUMAN OSTEOLOGY (3-0-3)
Introduction to the analysis of human skeletal material from archaeological sites. Instructor: S. McIntosh

ANTH 460(S)  ADVANCED ARCHAEOLOGICAL THEORY (3-0-3)
History and analysis of the major currents of archaeological theory from the Encyclopaedist origins of positivism, through cultural evolutionism and historical particularism, to the New Archaeology and current trends. Prerequisite: ANTH 205. Instructor: R. McIntosh

ANTH 463(F)  WEST AFRICAN PREHISTORY (3-0-3)

ANTH 468(S)  PALAEOCLIMATE AND HUMAN RESPONSE (3-0-3)
Palaecoscientists have records extending through the Holocene of forcing process, such as climate, that influence humans. We examine these records and their impact on past and present society. We explore the concept of social memory, used to understand how past communities use information about climate change and past responses in long-term adaptive strategies. Not offered 2001–2002. Instructors: Droxler, R. McIntosh

ANTH 470(S)  PROPHETS, REFORMERS, REVOLUTIONARIES (3-0-3)
This course explores social and cultural movements and the figures by whom such movements are inspired and guided. Special topics to be treated include sectarianism and millenialism, intellectual vanguardism, and the “new” politics of identity and intersubjectivity. Not offered 2001–2002. Instructor: Faubion

ANTH 474(S)  ADVANCED SEMINAR ON THE PREHISTORIC LANDSCAPE (3-0-3)
The interaction of human geography (cultural ecology) and the physical landscape (geomorphology and physical geography) as applied to past and present settlement on major floodplains. Not offered 2001–2002. Instructor: R. McIntosh

ANTH 475(S)  Plio-Pleistocene Climate Change and Hominid Adaptation (3-0-3)
Junctures in the evolution of the hominids appear to coincide with shifts in Earth's climate record. Explores the current status of our knowledge of global climate in the Plio-Pleistocene and of the hominid record from the end of the Miocene to the appearance of H. sapiens. Also offered as GEOL 475. Not offered 2001–2002. Instructors: Droxler, R. McIntosh

ANTH 483(S)  DOCUMENTARY AND ETHNOGRAPHIC FILM (3-0-3)
Overview of the history of documentary and ethnographic cinema from a worldwide perspective. Includes both canonical and alternative films and film movements, with emphasis on the shifting and overlapping boundaries of fiction and nonfiction genres. Also offered as HART 483. Not offered 2001–2002. Instructor: Naficy

(F) = fall; (S) = spring
ANTH 484(S)  CULTURE, MEDIA, SOCIETY: EXILE AND DIASPORA CINEMA (3-0-3)
Examination of cultural productions as vehicles for communication across national, cultural, and other boundaries, using contemporary theories of culture and media. Includes the creation of meaning and cultural capital, the representation of minority and alternative views, and the construction of individual and group identities. Also offered as HART 484. Limited enrollment. *Instructor: Naficy*

ANTH 490(F)  DIRECTED HONORS RESEARCH (3-0-3 each semester)
ANTH 491(S)  
A two-semester sequence of independent research culminating in the preparation and defense of an honors thesis. Open only to candidates formally accepted into the honors program.

ANTH 503(F)  INTRODUCTION TO PHYSICAL ANTHROPOLOGY (3-0-3)
Graduate version of ANTH 203.

ANTH 504(F)  CORE CONCEPTS IN ANTHROPOLOGY (3-0-3)
Graduate version of ANTH 304.

ANTH 505(F)  INTRODUCTION TO ARCHAEOLOGY (3-0-3)
Graduate version of ANTH 205.

ANTH 506(S)  HISTORY OF ANTHROPOLOGICAL IDEAS (3-0-3)
Graduate version of ANTH 306.

ANTH 507(F)  ANTHROPOLOGICAL DIRECTIONS, FROM THE SECOND WORLD WAR TO THE PRESENT (3-0-3)
Graduate version of ANTH 307.

ANTH 508(S)  HISTORY AS A CULTURAL MYTH (3-0-3)
Graduate version of ANTH 308.

ANTH 509(S)  GLOBAL CULTURES (3-0-3)
Graduate version of ANTH 309.

ANTH 511(S)  MASCU LINITIES (3-0-3)
Graduate version of ANTH 311.

ANTH 512(F)  AFRICAN PREHISTORY (3-0-3)
Graduate version of ANTH 312.

ANTH 513(F)  LANGUAGE AND CULTURE (3-0-3)
Graduate version of ANTH 313.

ANTH 517(S)  CULTURE IS GOOD TO THINK (3-0-3)
Graduate version of ANTH 317.

ANTH 519(F)  SYMBOLISM AND POWER (3-0-3)
Graduate version of ANTH 319.

ANTH 520(F)  PUBLIC SPHERES AND PUBLIC CULTURES (3-0-3)
Graduate version of ANTH 320.

ANTH 522(F)  CULTURES AND IDENTITIES: RACE, ETHNICITY, AND NATIONALISM (3-0-3)
Graduate version of ANTH 322.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ANTH 525(F)  SEX, SELF, AND SOCIETY IN ANCIENT GREECE (3-0-3)  Graduate version of ANTH 325.

ANTH 527(F)  GENDER AND SYMBOLISM (3-0-3)  Graduate version of ANTH 327.

ANTH 528(S)  VIOLENCE, TERROR, AND SOCIAL TRAUMA (3-0-3)  Graduate version of ANTH 328.

ANTH 530(F)  TOPICS IN THE ANTHROPOLOGY OF EUROPE (3-0-3)  Graduate version of ANTH 330.

ANTH 532(S)  CONTEMPORARY DEBATES ON CULTURE (3-0-3)  Graduate version of ANTH 332.

ANTH 535(S)  ANTHROPOLOGY AS CULTURAL CRITIQUE (3-0-3)  Graduate version of ANTH 335.

ANTH 536  THE ART OF ETHNOGRAPHY (3-0-3)  Graduate version of ANTH 336.

ANTH 538(S)  READING POPULAR CULTURE (3-0-3)  Graduate version of ANTH 338.

ANTH 541  ETHNOGRAPHIC FILM AND THE 20TH CENTURY (3-0-3)  Graduate version of ANTH 341.

ANTH 542(F)  TOPICS IN POLITICAL CINEMA (3-0-3)  Graduate version of ANTH 342.

ANTH 544(S)  CITY/CULTURE (3-0-3)  Graduate version of ANTH 344.

ANTH 545(F)  THE POLITICS OF THE PAST: ARCHAEOLOGY IN SOCIAL CONTEXT (3-0-3)  Graduate version of ANTH 345.

ANTH 550  INDIANS OF THE AMERICAS (3-0-3)  Graduate version of ANTH 350.

ANTH 551(S)  CULTURES OF NATIONALISM (3-0-3)  Graduate version of ANTH 351.

ANTH 553(S)  CULTURES OF INDIA (3-0-3)  Graduate version of ANTH 353.

ANTH 556  ETHNOGRAPHY OF TRIBAL PEOPLE (3-0-3)  Graduate version of ANTH 356.

ANTH 558(F)  THE FOURTH WORLD: ISSUES OF INDIGENOUS PEOPLES (3-0-3)  Graduate version of ANTH 358.

ANTH 560  MODERNITY AND SOCIAL SPACE (3-0-3)  Graduate version of ANTH 360.

ANTH 561  LATIN AMERICAN TOPICS (3-0-3)  Graduate version of ANTH 361.

(F) = fall; (S) = spring
ANTH 562(S) ARCHAEOLOGICAL FIELD TECHNIQUES (3-0-3)
Graduate version of ANTH 362.

ANTH 563(F) EARLY CIVILIZATIONS (3-0-3)
Graduate version of ANTH 363.

ANTH 568 PRIMATOLOGY (3-0-3)
Graduate version of ANTH 368.

ANTH 570 RADICAL EUROPE (3-0-3)
Graduate version of ANTH 370.

ANTH 571(F) MONEY AND EVERYDAY LIFE (3-0-3)
Graduate version of ANTH 371.

ANTH 572(S) CULTURES OF CAPITALISM (3-0-3)
Graduate version of ANTH 372.

ANTH 573(F) THE LINGUISTIC TURN: LANGUAGE, NARRATION, AND MODERNITY (3-0-3)
Graduate version of ANTH 373.

ANTH 577(F) THE ANCIENT CITY (3-0-3)
Graduate version of ANTH 377.

ANTH 581(F) MEDICAL ANTHROPOLOGY (3-0-3)
Graduate version of ANTH 381.

ANTH 582(F) NON-WESTERN CINEMA: THIRD-WORLD CINEMAS (3-0-3)
Graduate version of ANTH 382. Also offered as HART 582.

ANTH 583 HUMAN ADAPTATION (3-0-3)
Graduate version of ANTH 383.

ANTH 586 HUMAN NUTRITION (3-0-3)
Graduate version of ANTH 386.

ANTH 588(S) THE LIFE CYCLE: A BIOCULTURAL VIEW (3-0-3)
Graduate version of ANTH 388.

ANTH 590(F) CULTURE, NARRATION, AND SUBJECTIVITY (3-0-3)
Graduate version of ANTH 390.

ANTH 595(F) CULTURE AND COMMUNICATION (3-0-3)
Graduate version of ANTH 395.

ANTH 600 INDEPENDENT STUDY (3-0-3)

ANTH 601(F) GRADUATE PROSEMINAR IN ANTHROPOLOGY (3-0-3)
Mapping the current fields of anthropological discourses, examining the debates in and between each of these fields, and discussing how these debates are conducted in the domains of fieldwork, ethnographic writing, and in the construction of careers in anthropology. Instructor: Marcus

ANTH 603(F) ANALYZING PRACTICE (3-0-3)
Graduate version of ANTH 403.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ANTH 606(F)</td>
<td>COGNITIVE STUDIES IN ANTHROPOLOGY AND LINGUISTICS</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 406.</td>
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<tr>
<td>ANTH 607(F)</td>
<td>FIELD TECHNIQUES AND ANALYSIS</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 407.</td>
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<tr>
<td>ANTH 608(S)</td>
<td>FIELD TECHNIQUES AND ANALYSIS</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 408.</td>
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<tr>
<td>ANTH 610</td>
<td>THE ETHNOGRAPHY OF DEVELOPMENT</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 410.</td>
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<tr>
<td>ANTH 611</td>
<td>NEUROLINGUISTICS</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 411.</td>
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<tr>
<td>ANTH 612(S)</td>
<td>RHETORIC</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 412.</td>
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<tr>
<td>ANTH 614(S)</td>
<td>HERMENEUTICS AND LINGUISTIC ANTHROPOLOGY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 414.</td>
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<tr>
<td>ANTH 615(F)</td>
<td>THEORIES IN MODERNITY/POSTMODERNITY I</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 415.</td>
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<tr>
<td>ANTH 616(S)</td>
<td>THEORIES IN MODERNITY/POSTMODERNITY II</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 416.</td>
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<tr>
<td>ANTH 619(S)</td>
<td>LAW AND SOCIETY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 419.</td>
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<tr>
<td>ANTH 625(F)</td>
<td>ADVANCED TOPICS IN ARCHAEOLOGY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 425.</td>
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<tr>
<td>ANTH 630(F)</td>
<td>EXPERIMENTAL WRITING AND ANTHROPOLOGY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 430.</td>
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<tr>
<td>ANTH 646(S)</td>
<td>ADVANCED TOPICS IN BIOMEDICAL ANTHROPOLOGY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 446. Instructor’s permission required.</td>
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<tr>
<td>ANTH 647(F)</td>
<td>MODERN ETHNOGRAPHY AND THE ETHNOGRAPHY OF MODERNITY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 447.</td>
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<tr>
<td>ANTH 650(S)</td>
<td>PEDAGOGY</td>
<td>3-0-3</td>
<td>Training in the basic elements of teaching in anthropology, to be</td>
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<td>taken in conjunction with applied graduate student training in ANTH</td>
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<td>316. Prerequisite: third-year and above graduate students. Instructors: Marcus, Staff</td>
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<tr>
<td>ANTH 658(S)</td>
<td>HUMAN OSTEOSTELOGY</td>
<td>3-0-3</td>
<td>Graduate version of ANTH 458.</td>
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(F) = fall; (S) = spring
ANTH 660(S)  ADVANCED ARCHAEOLOGICAL THEORY  (3-0-3)
Graduate version of ANTH 460.

ANTH 663(F)  WEST AFRICAN PREHISTORY  (3-0-3)
Graduate version of ANTH 463.

ANTH 668(S)  PALAEOCLIMATE AND HUMAN RESPONSE  (3-0-3)
Graduate version of ANTH 468.

ANTH 670(S)  PROPHETS, REFORMERS, REVOLUTIONARIES  (3-0-3)
Graduate version of ANTH 470.

ANTH 674(S)  ADVANCED SEMINAR ON THE PREHISTORIC LANDSCAPE  (3-0-3)
Graduate version of ANTH 474.

ANTH 675(S)  Plio-Pleistocene Climate Change and Hominid Adaptation  (3-0-3)
Graduate version of ANTH 475.

ANTH 683(S)  DOCUMENTARY AND ETHNOGRAPHIC FILM  (3-0-3)
Graduate version of ANTH 483. Also offered as HART 683.

ANTH 684(S)  CULTURE, MEDIA, SOCIETY: EXILE AND DIASPORA CINEMA  (3-0-3)
Graduate version of ANTH 484. Also offered as HART 684.

ANTH 800  RESEARCH AND THESIS  (hours variable)

Arabic (ARAB)

The School of Humanities/Center for the Study of Languages

ARAB 101(F)  INTRODUCTION TO MODERN ARABIC LANGUAGE AND CULTURE I  (3-2-5)
Introduction to the Modern Standard Arabic Language, as well as to some cultural aspects related to the Arab world. Listening and speaking skills developed through communicative exercises. Students will also learn the writing system and will use it to express simple ideas and topics. Each lesson includes conversation practice and writing. Language lab required. Instructor: Staff

ARAB 102(S)  INTRODUCTION TO MODERN ARABIC LANGUAGE AND CULTURE II  (3-2-5)
Continuation of ARAB 101. Introduction to a wide range of context-related vocabulary. Expression of information about self and others, about daily practices and routines, and about simple opinions on general matters. Each lesson includes a conversational section and reading and comprehension exercises in addition to the introduction of basic grammatical construction. Language lab required. Prerequisite: ARAB 101 or permission of instructor. Instructor: Staff

ARAB 201(F)  INTERMEDIATE MODERN ARABIC LANGUAGE AND CULTURE I  (3-1-4)
Development of proficiency in reading and writing. Introduction to more complex semantic and syntactic structures. Practice presenting to the class, as well as writing about a variety of topics. Emphasis on etymology. Introduction to the use of the Arabic dictionary. Language lab required. Prerequisite: ARAB 102 or permission of instructor. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ARAB 202(S)  INTERMEDIATE MODERN ARABIC LANGUAGE AND CULTURE II (3-1-4)
Continuation of ARAB 201. Focuses on reading and discussing texts that vary in topics and forms. Expression of individual thoughts and opinions about various literary excerpts. Writing will be used as a tool of communicating ideas related to topics discussed in the classroom or to topics read individually. Focuses on etymology and the use of the dictionary. Culture-related issues will be included in classroom discussions and readings. Prerequisite: ARAB 201 or permission of instructor.  
Instructor: Staff

ARAB 301(F)  SEMINAR IN ARABIC (3-0-3)
Advanced readings and discussions focus on literary and cultural topics, ranging from classical to contemporary. Integrates advanced grammatical constructions with comprehension and communication skills. Prerequisite: permission of instructor.  
Instructor: Staff

ARAB 302(S)  SEMINAR IN ARABIC (3-0-3)
Continuation of ARAB 301. Prerequisite: permission of instructor.  
Instructor: Staff

ARAB 398(F)  INDEPENDENT STUDY (hours variable)
Prerequisite: permission of instructor.  
Instructor: Staff

ARAB 399(S)  INDEPENDENT STUDY
Prerequisite: permission of instructor.  
Instructor: Staff

ARAB 401(F)  DIRECTED READING (3-0-3)
Prerequisite: permission of instructor.  
Instructor: Staff

ARAB 402(S)  DIRECTED READING (3-0-3)
Prerequisite: permission of instructor.  
Instructor: Staff

Architecture (ARCH)

The School of Architecture

ARCH 101(F)  PRINCIPLES OF ARCHITECTURE I (2-6-4)
Visual studies of restricted dimensions. Includes using simple tools and materials to develop an awareness of the environment. Required for architecture majors.  
Instructors: Grenader, Samuels

ARCH 102(S)  PRINCIPLES OF ARCHITECTURE I (2-6-4)
Introduction to concepts of beginning architectural design. Includes the manipulation of visual structure for formal and operational information and the design process as problem solving, with emphasis on conscious method. Required for architecture majors. Prerequisite: ARCH 101.  
Instructors: Grenader, Samuels

ARCH 132  FRESHMAN SEMINAR: PERSPECTIVES OF ARCHITECTURE (2-0-2)
Lectures and discussions on fundamental issues in architectural theory and practice, providing introductory perspectives of the discipline of architecture. Open to nonmajors by permission of instructor.  
Instructor: Casbarian

ARCH 201(F)  PRINCIPLES OF ARCHITECTURE II (3-9-6)
Elaboration of architectural concepts applied to building design in the urban context. Includes introductory urban planning issues. Required for architecture majors. Prerequisites: ARCH 101 and 102.  
Instructors: Oliver, Staff

ARCH 202(S)  PRINCIPLES OF ARCHITECTURE II (3-9-6)
Study of intermediate-level design problems, with emphasis on building technology, programming, and formal design. Required for architecture majors. Prerequisites: ARCH 101, 102, and 201.  
Instructors: Brown, Wittenberg

(F) = fall; (S) = spring
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>ARCH 207(F)</td>
<td>INTRODUCTION TO DESIGN OF STRUCTURES</td>
<td>(3-0-3)</td>
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<td></td>
<td>This course will introduce students to historical</td>
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<td>and contemporary structures through multimedia</td>
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<td>presentations, computer-based visualizations,</td>
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<td>field trips, and hands-on experiments with</td>
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<td>materials of construction and physical models</td>
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<td>of structures. This is an introductory,</td>
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<td>interactive course on the art and science of</td>
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<td>designing engineered structures and is intended</td>
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<td>for freshmen and sophomores interested in both</td>
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<td>civil engineering and architecture.</td>
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<td><em>Instructors: Wittenberg and Staff</em></td>
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<td>ARCH 214(S)</td>
<td>STRUCTURAL AND CONSTRUCTION SYSTEMS II</td>
<td>(3-0-3)</td>
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<td></td>
<td>Application of materials and construction (e.g.,</td>
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<td>wood, masonry, concrete, and steel). Includes</td>
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<td>case studies and field trips.</td>
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<td><em>Instructors: Brown, Oberholzer</em></td>
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<td>ARCH 301(F)</td>
<td>PRINCIPLES OF ARCHITECTURE III</td>
<td>(2-12-6)</td>
<td>Required for architecture majors. Prerequisites:</td>
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<td>ARCH 101, 102, 201, and 202.</td>
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<td><em>Instructors: Brown, DeLaura</em></td>
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<td>ARCH 302(S)</td>
<td>SELECTED ARCHITECTURAL PROBLEMS I</td>
<td>(2-12-6)</td>
<td>Required for preprofessional major in architecture.</td>
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<td>Study of various intermediate-level problems,</td>
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<td>with emphasis on developing comprehensive</td>
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<td>experience in design methods and processes, plus</td>
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<td>computer applications in design. Required for</td>
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<td>preprofessional major in architecture. Prerequisites: ARCH 201, 202, and 301.</td>
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<td>*Instructors: Can-nady, Krumwiede, Parsons,</td>
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<td></td>
<td>Williams*</td>
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<tr>
<td>ARCH 311</td>
<td>HOUSTON ARCHITECTURE</td>
<td>(3-0-3)</td>
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<td>The course consists of a series of illustrated</td>
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<td>lectures and walking tours that describe and</td>
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<td>analyze the architectural history of Houston.</td>
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<td>The basis of the lectures is a chronological</td>
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<td>account of the development of the city from</td>
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<td>its founding in 1836 to the present. Characteristic</td>
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<td>building types and exceptional works of</td>
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<td>architecture are identified for each period</td>
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<td>within the city’s development. Notable</td>
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<td>architects who worked in Houston are also</td>
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<td>identified and the evolution of the practice of</td>
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<td>architecture is profiled. Walking tours</td>
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<td>acquaint class members with outstanding</td>
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<td>buildings and educate them in developing</td>
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<td>an awareness of the historical dimensions of</td>
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<td>urban sites. Tour notes: On scheduled tour days,</td>
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<td>a tour will be postponed if weather conditions</td>
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<td>make walking outdoors unadvisable. Should a</td>
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<td>tour be postponed, class will be held instead.</td>
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<td>The tour will automatically be transferred to</td>
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<td>the next class session. Students may telephone</td>
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<td>the instructor at ext. 3378 to confirm</td>
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<td>postponements when weather is threatening.</td>
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<td><em>Instructor: Fox</em></td>
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<td>ARCH 313(F)</td>
<td>SUSTAINABLE ARCHITECTURE</td>
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<td>An overview of natural resource consumption,</td>
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<td>environmental impact, and design responses in</td>
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<td>the building field.</td>
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<td><em>Instructor: Taylor</em></td>
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<td>ARCH 315(F)</td>
<td>DESIGN OF STRUCTURES III</td>
<td>(3-0-3)</td>
<td>Continuation of ARCH 213 and 214. Prerequisites:</td>
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<td>ARCH 213 and 214.</td>
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<td>ARCH 213 and 214.</td>
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<td><em>Instructor: Oberholzer</em></td>
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<td>ARCH 316(S)</td>
<td>BUILDING CLIMATOLOGY AND ENVIRONMENTAL</td>
<td>(3-0-3)</td>
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<td>CONTROL SYSTEMS</td>
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<td>Introduction to the thermal performance of</td>
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<td>buildings. Includes Part 1, Building Climatology,</td>
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<td>and Part 2, Air Conditioning Systems.</td>
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<td><em>Instructor: Oberholzer</em></td>
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<td>ARCH 321(F)</td>
<td>ECONOMICS OF THE BUILT ENVIRONMENT</td>
<td>(3-0-3)</td>
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<td>In relation to the built environment, the</td>
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<td>course will define basic economic terms and</td>
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<td>systems, outline conflicting economic perspectives</td>
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<td>of stakeholders, explain different investment</td>
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<td>valuation methods, and provide students with an</td>
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<td>initial set of economic tools. Course will</td>
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<td>involve case studies, exercises, teamwork, and</td>
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<td>role-playing. Several guest speakers will</td>
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<td>provide viewpoints from the “real world.”</td>
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<td><em>Instructor: Barry</em></td>
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<td>ARCH 327(F)</td>
<td>BUILDING WORKSHOP I</td>
<td>(3-0-3)</td>
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<td>Opportunity to convert design ideas into</td>
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<td>built projects.</td>
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<td><em>Instructors: Grenader, Samuels</em></td>
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ARCH 334(S)  BUILDING WORKSHOP II (3-0-3)
Opportunity to convert design ideas into built projects.  Instructor: Grenader, Samuels

ARCH 344(S)  CONSTRUCTION AND DESIGN (3-0-3)
Seminar on normative relationships between the construction and aesthetics of an object, with emphasis on the idea that how things are made can be one credible point of departure for the architectural design process. Instructor: Parsons

ARCH 346(S)  19TH- AND 20TH-CENTURY ARCHITECTURAL HISTORY (3-0-3)
Survey of the history and theories of modern architecture. Also offered as HART 346. Instructor: Biln

ARCH 351(F)  SOCIAL ISSUES AND ARCHITECTURE (3-0-3)
This course will explore issues of homelessness, communities threatened by decay or development, and elderly, poor, and minority groups with inadequate housing by focusing on community-based public art. Often process-oriented, event-based, and programmatically innovative, these works will be considered in relation to potential architecture practices seeking to engage these same issues. Interdisciplinary readings will provide an historical and theoretical overview of social space production. Instructor: Brown

ARCH 353(F)  PHOTOGRAPHY FOR ARCHITECTS (3-0-3)
Exploration of a variety of photographic techniques for architectural research, design, and presentation. Limited enrollment. Instructor: White

ARCH 358(S)  NEW THEORIES OF COMPOSITION
Lectures on the following topics: Urbanism, Formalism, Episteme in Life; Dynamics and Cybernetics; Behavior: The Final Frontier; The Modulating/Modulated Universe; Character and Ecological Adaptation; Global Image Context; Recording Technologies; Daguerre to Genetic Reproduction; and Cinematic Migration. Instructor: Kwinter

ARCH 360(S)  CRISIS AND COMMUNICATIONS
As the demands for design today shift toward social, economic, and technological concerns, the group/crisis model is re-emerging in corporate, popular, and radical milieus. We study the history of these developments from our own collective operation and produce a publication that reflects this emerging new approach to design culture. Instructor: Kwinter

ARCH 362(S)  THE PHILOSOPHY OF MATTER, FORCE, AND EVENT
A lecture course on the philosophy of Gilles Deleuze which deals with the metaphysical foundations of contemporary space and time. Readings include Deleuze’s analyses of Spinoza, Leibniz, Nietzsche, and Bergson. Instructor: Kwinter

ARCH 374(S)  THE JOY OF MATERIALS
This course is aimed at increasing the student’s knowledge and appreciation of the use of materials in works of contemporary architecture. Instructor: Jimenez

ARCH 386(S)  ARCHITECTURE AND SOCIETY II
(ENLIGHTENMENT THROUGH POSTMODERNITY)
This course examines the paradigmic works of architectural theory and practice ranging from modernism’s origins in the enlightenment critique of the baroque through the development of high modernism and on to its critiques in postmodern thoughts and practices. The course is constructed to mediate between a survey course and a case-study approach to the theory and history of architecture. This approach allows an in-depth focus on particular issues, buildings, and theories while providing a meaningful context in which to understand and evaluate these works. Instructor: Biln

ARCH 401(F)  PRINCIPLES OF ARCHITECTURE IV (2-12-6)
Study of upper-level architectural design problems, with emphasis on urban design principles and methodology. Includes the effects of social and political forces on planning and building organization. Required for preprofessional major in architecture. Prerequisites: ARCH 101, 102, 201, 202, 301, and 302. Instructor: Jimenez

(F) = fall;  (S) =
ARCH 402(S)  SELECTED ARCHITECTURAL PROBLEMS II  (2-12-6)
See ARCH 302. Required for professional major in architecture. Prerequisites: ARCH 101, 102, 201, 202, 301, 302, and 401. Instructors: Cannady, Krumwiede, Parsons, Williams

ARCH 423  PROFESSIONALISM AND MANAGEMENT IN ARCHITECTURAL PRACTICE  (3-0-3)
Introductory survey of professional practice in architecture. Instructors: Fleishacker, Furr

ARCH 425  THEORY AND MODERNISM  (3-0-3)
This course is repeatable for credit, since subject matter varies. Instructor: Biln

ARCH 426(S)  DESIGNING THE LOW-COST HOUSE  (3-0-3)
The spring course begins the sequence to produce a small house under the auspices of the Rice Building Workshop. The history and development of the small house will be examined, followed by an analysis of the proposed midtown site and its context. Construction technologies, materials, costs, climate conditions, and code issues will be considered. Each student will develop a design approach in some detail, and a single proposal (or merging of proposals) will be selected and documented for permitting and construction. All phases of the project will incorporate collaboration with the larger community, from neighborhood organizations to local contractors. Instructor: Grenader

ARCH 428(F)  BUILDING THE LOW-COST HOUSE  (3-0-3)
After a short period to become familiar with the program and the general design approach, and to examine numerous unresolved details, construction will commence in Ryon Lab, the civil engineering space on campus, where we will have access to the wood, metal, and concrete shops. Panelized construction will enable us to erect the house in the high-bay space, out of the weather, and then, in October, to demount it and reassemble it on-site for exterior and interior finishing. We will work in close collaboration with clients, engineers, contractors, suppliers, and craftspeople. Instructor: Samuels

ARCH 429(S)  BUILDING THE LOW-COST HOUSE II  (3-0-3)
This elective course will continue student involvement in the hands-on process of constructing a new structure for Project Row Houses, a noted grass-roots art project promoting neighborhood revitalization and community service in Houston’s Third Ward. Instructor: Samuels

ARCH 431(F)  ARCHITECTURE IN FICTION
The course explores literary renditions of architectural “retreats” that simulate a particular condition when, for one reason or another, living with others is deemed unbearable (i.e. when cohabitation is understood as having eroded personal freedom). A recurrent monasticist trope can thus be identified in many fictions whereby an individual decides to leave the group and construct a retreat that consequently serves to articulate a critique of that group. In each documentary or novelistic work to be examined, the everyday life of the individual or the group will be linked to a particular form of architectural expression: room, apartment building, hotel, hideout, folly, etc., which will be considered in terms of their “idiorrhythmic” dimensions (forms of removal or withdrawal from collectives or norms) and their complicity with the social critique they help sustain. Instructor: el-Dahdah

ARCH 432(S)  INTRODUCTION TO COMPUTERS IN ARCHITECTURE  (3-0-3)
Instructor: el-Dahdah

ARCH 433(F)  INTRODUCTION TO COMPUTER APPLICATIONS IN ARCHITECTURE  (3-0-3)
This course is designed as a general introduction to computing in the context of architectural design. Emphasis is on the use of digital media as design tools and the appropriate use of these tools in the varying processes of design. This course includes exposure to a broad spectrum of design, drafting, modeling, and presentation software. Instructor: DeLaura

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ARCH 436(S)  COMPUTER-AIDED DESIGN (3-0-3)
Exploration of advanced computer graphic techniques using CAD in architecture as a design and presentation medium. Instructor: DeLaura

ARCH 439(F)  THREE-DIMENSIONAL COMPUTER GRAPHICS (3-0-3)
A workshop in three-dimensional computer modeling and its theoretical implications for architecture and design. One class session each week will be a how-to lecture covering the technical side of modeling. The other sessions will consist of group discussion through which we will explore the theoretical implications of the medium and test the limits of its use as architectural representation. Prerequisite: permission of instructor. Enrollment is limited. Instructor: Nichols

ARCH 440(S)  DIGITAL RENDERING, ANIMATION, AND VIRTUAL REALITY (3-0-3)
Advanced study of computer modeling, rendering, and graphics manipulation, with emphasis on their role in the design process. Instructor: Nichols

ARCH 455(F)  HOUSING AND URBAN PROGRAMS: ISSUES IN POLICY (3-0-3)
Exploration of current issues in the formulation and implementation of housing and urban development programs in the U.S. An oral presentation and written paper on a specific topic within a general policy area required. Instructor: Lord

ARCH 461  INDEPENDENT PROJECTS (hours variable)
Independent research or design arranged in consultation with a faculty member subject to approval of faculty adviser and director. Very limited enrollment. Instructor: Casbarian

ARCH 481(F)  THE IDEA OF HOUSING (3-0-3)
In the 1920s, the architectural idea of housing and the philosophical idea of existentialism emerged simultaneously in presumably unrelated intellectual circles. *Being and Time* was published in 1927, the same year the Weissenhof Settlement opened to the public in Stuttgart. One only need emphasize the fact that Martin Heidegger is precisely the same age as both Le Corbusier and Mies to suggest an exploration of the possible connections between two seemingly disparate intellectual trends. Whether this shared history represents only a coincidence or the overlap of significant content is open to question. The first part of the seminar will examine this question. The second part will catalogue the institutionalization of these ideas through the 1950s using a series of case studies. Instructor: Pope

ARCH 483(S) 20TH-CENTURY HISTORY OF IDEAS IN ARCHITECTURE (3-0-3)
The course examines major themes and methodologies in 20th-century architectural theory. Its goal is to consider architecture through the relations it has constructed to a wider set of cultural studies that include the critical theory of the Frankurt school, phenomenology, semiotics, structuralism, post-structuralism, and psychoanalysis. Instructor: Last

ARCH 485(F)  ARCHITECTURE AND SOCIETY I (ANTIQUITY THROUGH 17TH CENTURY)
Through a series of case studies, this course will examine the sociocultural consequences of exemplary buildings from antiquity through the 17th century. Instructor: el-Dahdah

ARCH 500  PRECEPTORSHIP PROGRAM (0-0-15)
Full-time internship for 9 to 12 months under the guidance of an appointed preceptor. Required for all recipients of Rice B.A. degrees in preprofessional or area majors who seek admission to graduate studies in architecture. Instructor: Casbarian

ARCH 501(F)  GRADUATE CORE STUDIO I (5-15-10)
Lectures, seminars, labs, and design studio projects adjusted to individual needs. Required for students with nonarchitectural bachelor’s degrees who seek admission to graduate professional programs in architecture or urban design. Prerequisite: determined by the Graduate Affairs Committee with the School of Architecture. Instructor: Staff
ARCH 502(S) GRADUATE CORE STUDIO II (5-15-10)
See ARCH 501. Instructors: Pope

ARCH 503(F) GRADUATE CORE STUDIO III (5-15-10)
Preparatory design studio to follow ARCH 501 and 502. For students entering studios the following semester in regular graduate programs in architecture and urban design. Instructors: Parsons, Wittenberg

ARCH 504(S) GRADUATE CORE STUDIO IV (5-15-10)
See ARCH 503.

ARCH 507(F) INTRODUCTION TO DESIGN OF STRUCTURES (3-0-3)
Graduate version of ARCH 207.

ARCH 514(S) STRUCTURAL AND CONSTRUCTION SYSTEMS II (3-0-3)
Study of structure in architecture, forces and equilibrium, structural materials, and the behavior, analysis, and design of structural elements and their connections. Required for students in the qualifying graduate program. Instructors: Brown, Oberholzer

ARCH 515(F) DESIGN OF STRUCTURES III (3-0-3)
Study of the behavior, analysis, and design of structural elements, the synthesis of structural elements into structural systems, and the integration of structural systems with other building systems. Required for students in the qualifying graduate program. Prerequisite: ARCH 514. Instructor: Oberholzer

ARCH 516(S) BUILDING CLIMATOLOGY AND ENVIRONMENTAL CONTROL SYSTEMS (3-0-3)
Graduate version of ARCH 316.

ARCH 601(F) ARCHITECTURAL PROBLEMS: STUDIO (5-15-10)
Exploration of abstract thought and design capabilities relevant to the systematic processes of designing specific buildings and facilities. Instructors: Cannady (section 1); Casbarian (section 2); visitor (section 3)

ARCH 602(S) ARCHITECTURAL PROBLEMS: STUDIO (5-15-10)
See ARCH 601. Instructors: Jimenez, visitor

ARCH 611(F) HOUSTON ARCHITECTURE (3-0-3)
Graduate version of ARCH 311.

ARCH 613(F) SUSTAINABLE ARCHITECTURE
Graduate version of ARCH 313.

ARCH 621(F) ECONOMICS OF THE BUILT ENVIRONMENT (3-0-3)
Graduate version of ARCH 321.

ARCH 623 PROFESSIONALISM AND MANAGEMENT IN ARCHITECTURAL PRACTICE (3-0-3)
Graduate version of ARCH 423.

ARCH 625 THEORY AND MODERNISM
Graduate version of ARCH 425.

ARCH 626(S) DESIGNING THE LOW-COST HOUSE (3-0-3)
Graduate version of ARCH 426.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ARCH 627(F)  BUILDING WORKSHOP I (3-0-3)  
Graduate version of ARCH 327.

ARCH 628(F)  BUILDING THE LOW-COST HOUSE (3-0-3)  
Graduate version of ARCH 428.

ARCH 629(S)  BUILDING THE LOW-COST HOUSE II (3-0-3)  
Graduate version of ARCH 429.

ARCH 631(F)  ARCHITECTURE IN FICTION  
Graduate version of ARCH 431.

ARCH 632(S)  INTRODUCTION TO COMPUTERS IN ARCHITECTURE (3-0-3)  
Graduate version of ARCH 432.

ARCH 633(F)  INTRODUCTION TO COMPUTER APPLICATIONS IN ARCHITECTURE (3-0-3)  
Graduate version of ARCH 433.

ARCH 634(S)  BUILDING WORKSHOP II (3-0-3)  
Graduate version of ARCH 334.

ARCH 636(S)  COMPUTER-AIDED DESIGN (3-0-3)  
Graduate version of ARCH 436.

ARCH 639(F)  THREE-DIMENSIONAL COMPUTER GRAPHICS  
Graduate version of ARCH 439.

ARCH 640(S)  DIGITAL RENDERING, ANIMATION, AND VIRTUAL REALITY (3-0-3)  
Graduate version of ARCH 440.

ARCH 644(S)  CONSTRUCTION AND DESIGN (3-0-3)  
Graduate version of ARCH 344.

ARCH 646(S)  19TH- AND 20TH-CENTURY ARCHITECTURAL HISTORY (3-0-3)  
Graduate version of ARCH 346.

ARCH 651(F)  SOCIAL ISSUES AND ARCHITECTURE (3-0-3)  
Graduate version of ARCH 351.

ARCH 653(F)  PHOTOGRAPHY FOR ARCHITECTS (3-0-3)  
Graduate version of ARCH 353.

ARCH 655(F)  HOUSING AND URBAN PROGRAMS: ISSUES IN POLICY (3-0-3)  
Graduate version of ARCH 455.

ARCH 656  NEW MODELS OF SPACE AND FORM

ARCH 658  NEW THEORIES OF COMPOSITION (3-0-3)  

(F) = fall; (S) = spring
Graduate version of ARCH 358.

**ARCH 660(S)  CRISIS AND COMMUNICATIONS**  
Graduate version of ARCH 360.

**ARCH 662(S)  THE PHILOSOPHY OF MATTER, FORCE, AND EVENT**  
Graduate version of ARCH 362.

**ARCH 665(F)  GRADUATE SEMINAR: ARCHITECTURAL**  
**ARCH 666(S)  DESIGN (3-0-3 each semester)**  
Seminars on design theory, with emphasis on participation by visiting critics and professors.

**ARCH 674(S)  THE JOY OF MATERIALS (3-0-3)**  
Graduate version of ARCH 374.

**ARCH 681(F)  THE IDEA OF HOUSING (3-0-3)**  
Graduate version of ARCH 481.

**ARCH 683(S)  20TH-CENTURY HISTORY OF IDEAS IN ARCHITECTURE**  
Graduate version of ARCH 483.

**ARCH 685(S)  ARCHITECTURE AND SOCIETY I (ANTIQUITY THROUGH 17TH CENTURY) (3-0-3)**  
Graduate version of ARCH 485. *Instructor: el-Dahdah*

**ARCH 686(S)  ARCHITECTURE AND SOCIETY II (ENLIGHTENMENT THROUGH POSTMODERNITY) (3-0-3)**  
Graduate version of ARCH 486. *Instructor: Biln*

**ARCH 700  PRACTICUM (3-0-3)**  
Full-time internship in approved local offices under interdisciplinary supervision, with emphasis on “real world” design, planning, or research experiences. Special tuition. May be taken in any semester or in summer.

**ARCH 702(S)  PRE-THESIS PREPARATION (3-0-3)**

**ARCH 703  DESIGN THESIS STUDIO (10-13)**

**ARCH 705  WRITTEN THESIS RESEARCH (3-0-3)**

**ARCH 706  WRITTEN THESIS (0-13-13)**

**ARCH 711  SPECIAL PROJECTS (hours variable)**  
Independent research or design arranged in consultation with a faculty member subject to approval of faculty adviser and director. *Instructor: Staff*

**ARCH 800  GRADUATE RESEARCH (hours variable)**  
*Instructor: Staff*


(0-0-0) = class hours/week - lab hours/week - credit hours/semester
Studio Art, Film, and Photography (ARTS)

The School of Humanities/Department of Art and Art History

ARTS 102(F) CREATIVETHREE-DIMENSIONAL DESIGN (0-6-3)
Study of the elements and principles of design. Three-dimensional problems are introduced. ARCH 102 is accepted as equivalent. Prerequisite: permission of instructor. Instructor: Smith

ARTS 205 PHOTOGRAPHY I (3-0-3)
Exploration of the basic materials and processes of the photographic medium. Includes viewing, analysis, and discussion of the medium’s history and current trends. Prerequisite: permission of instructor. Instructor: Winningham

ARTS 206(S) PHOTOGRAPHY II (3-0-3)
Continuation of ARTS 205. Prerequisite: permission of instructor. Instructor: Winningham

ARTS 216 35MM PHOTOGRAPHY (3-0-3)
Introduction to 35mm photography. Prerequisite: permission of instructor. Instructor: Winning

ARTS 225(F) DRAWING I (3-3-3)
Introduction to the problems of drawing using various media (e.g., charcoal, pencil, and pen and ink). Prerequisite: permission of instructor. Instructor: Staff

ARTS 291 SPECIAL PROBLEMS IN DESIGN: CREATIVETHREE-DIMENSIONAL (hours variable)
Study of problems at the introductory level in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Smith

ARTS 292/293 SPECIAL PROBLEMS IN DRAWING (hours variable)
Study of problems at the introductory level in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Smith

ARTS 294 SPECIAL PROBLEMS IN STUDIO ART (hours variable)
Study of problems at the introductory level in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Staff

ARTS 295 SPECIAL PROBLEMS IN PHOTOGRAPHY (hours variable)
Study of problems at the introductory level in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Winningham

ARTS 296(S) SPECIAL PROBLEMS IN FILM AND VIDEOTAPE MAKING (hours variable)
Study of problems at the introductory level in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Huberman

ARTS 301 PAINTING I (3-3-3 each semester)
Study of problems in painting, both traditional and experimental, in various opaque media. Prerequisites: ARTS 225, and permission of instructor. Instructor: Staff

ARTS 303(S) INTERMEDIATE PAINTING (3-3-3)
Continuation of studies of problems in painting, both traditional and experimental, in various opaque media. Prerequisites: ARTS 225, ARTS 301, and/or permission of instructor. Instructor: Staff

(F) = fall; (S) =
ARTS 306 PHOTOGRAPHY IV (3-0-3)
Study of advanced problems in photography, with emphasis on the independent pursuit of projects submitted by the students. Continuation of ARTS 305. Prerequisite: permission of instructor. 
Instructor: Winningham

ARTS 311 INTAGLIO I (0-6-3)
Instruction in black-and-white etching and photo etching. Prerequisites: ARTS 225 and permission of instructor. Instructor: Broker

ARTS 312 RELIEF I (0-6-3)
Instruction in black-and-white linoleum prints. Includes advanced color methods. Prerequisites: ARTS 225 and permission of instructor. Instructor: Broker

ARTS 313 LITHOGRAPHY I (0-6-3)
Instruction in stone and plate lithography in black and white. Prerequisites: ARTS 225 and permission of instructor. Instructor: Broker

ARTS 320 MONOTYPE I (0-6-3)
Introduction to monotype. Includes black-and-white and color monotype printing. Prerequisites: ARTS 225 and permission of instructor.

ARTS 325(F) LIFE DRAWING (3-3-3 each semester)
Instruction in drawing from the model in various media. Prerequisites: ARTS 225 and permission of instructor. Instructor: Poulos

ARTS 327 FILM AND VIDEOTAPE MAKING I (0-5-3)
Study of the expressive possibilities of the media, video documentary production, and 16mm animation. Prerequisite: permission of instructor. Instructor: Huberman

ARTS 328 FILMMAKING I (0-5-3)
Continuation of ARTS 327. Includes the completion of one major film project by the class using 16mm film and synchronous sound equipment. Prerequisites: ARTS 327 and permission of instructor. Instructor: Huberman

ARTS 329 FILM FORM (3-0-3)
Viewing, analysis, and discussion of modern and classic films. Prerequisite: permission of instructor. Instructor: Huberman

ARTS 337 COLOR DRAWING (3-3-3)
Introduction to color using still lifes and various media (e.g., pastel and watercolor). Prerequisites: ARTS 225 and permission of instructor. Instructor: Poulos

ARTS 345 COLOR PHOTOGRAPHY I (3-0-3)
Study of the fundamental techniques of color photography. Includes special problems in color camera work, color negative and transparency processing, and color printing. Prerequisites: ARTS 205, ARTS 206, and permission of instructor.

ARTS 346 COLOR PHOTOGRAPHY II (3-0-3)
Study in the fundamental techniques of color photography. Includes special problems in color camera work, color negative and transparency processing, and color printing. Prerequisites: ARTS 205, ARTS 206, and permission of the instructor. Continuation of ARTS 345. Instructor: Winningham

ARTS 349(F) PRINTMAKING I (0-6-3)
Study of the problems and techniques in printmaking at the beginning level. Both traditional and experimental forms of printmaking will be examined. Prerequisites: ARTS 225 and permission of instructor. Instructor: Broker

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ARTS 350  SPECIAL PROBLEMS IN PRINTMAKING  (0-6-3)
Study of problems at the introductory level in the creative art of printmaking. May be used in awarding transfer credit. Prerequisite: ARTS 225 and permission of the instructor. **Instructor: Staff**

ARTS 365/366  SCULPTURE I AND II  (0-6-3 each semester)
Exploration of sculpture in wood, metal, and other sculptural media. Prerequisite: permission of the instructor. **Instructor: Staff**

ARTS 381  DIGITAL IMAGING I  (3-3-3)
This course is designed as an introduction to electronic media as a tool for artistic production. Students will learn the foundations of Adobe Photoshop as it relates to production of image making and new media applications. This course will address, among other things, constructing images, color correction and duotones, using layers, Bezier curves, use of text, and issues of input/output. Prerequisites: ARTS 205 and permission of the instructor. **Instructor: Smith**

ARTS 382  DIGITAL IMAGING II  (3-3-3)
A continuation of ARTS 381, this course will introduce electronic media as a tool for artistic production. Students will learn more advanced use of Adobe Photoshop as it relates to production of image making and new media applications. Prerequisites: ARTS 381 and permission of the instructor. **Instructor: Thomas**

ARTS 390  INVESTIGATING DRAWING: THEORY AND PRACTICE  (3-3-3)
Examination of the basic principles of drawing and representation, with emphasis on studio practice, art history, and theory. Includes categories of representation (e.g., still life, landscape, and figure) and the process of making drawings, as well as related readings, group discussions, and writing assignments. May substitute ARTS 390 for ARTS 225 as a studio prerequisite. Prerequisite: permission of the instructor. Corequisite: HART 380. Not offered 2001-2002. **Instructor: Staff**

ARTS 391–397  SPECIAL PROBLEMS  (hours variable)
Study of problems in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor.

ARTS 411(S)  INTAGLIO II  (0-6-3)
Black-and-white etching and photoetching at the advanced level. Prerequisites: ARTS 225, ARTS 311, and permission of instructor. **Instructor: Broker**

ARTS 412(S)  RELIEF II  (0-6-3)
Instruction in black-and-white linoleum prints at the advanced level. Includes advanced color methods. Prerequisites: ARTS 225, ARTS 312, and permission of instructor. **Instructor: Broker**

ARTS 413(S)  LITHOGRAPHY II  (0-6-3)
Instruction at the advanced level in stone and plate lithography in black and white and color. Prerequisites: ARTS 225, ARTS 313, and permission of instructor. **Instructor: Broker**

ARTS 420  MONOTYPE II  (0-6-3)
Advance monotype processes: emphasis on color and drawing techniques. Prerequisites: ARTS 225, ARTS 320, and permission of instructor. **Instructor: Broker**

ARTS 423  SPECIAL PROBLEMS IN PAINTING  (hours variable)
Study of problems in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor. **Instructor: Staff**

ARTS 425  ADVANCED DRAWING  (3-3-3)
Study of large-scale drawing with conte and pencil. Includes various drawing surfaces and ideas. Prerequisites: ARTS 225 and permission of instructor.
ARTS 427(F)  FILM AND VIDEO TAPE MAKING II (1-5-3)
Completion of one major film project by each student, using either video or 16mm film. Prerequisite: permission of instructor. Instructor: Huberman

ARTS 428(S)  FILMMAKING II (1-5-3)

ARTS 432  FILM GENRE: THE WESTERN (3-0-3)
Survey of the essential American film experience spanning all the years of U.S. cinema, with emphasis on the western and its mythic function in society. Prerequisite: permission of instructor. Instructor: Huberman

ARTS 443–448  SPECIAL PROBLEMS (hours variable)
Study of advanced problems in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor.

ARTS 449  PRINTMAKING II (0-6-3)
Study of the problems and techniques in printmaking at the intermediate level. Both traditional and experimental forms of printmaking will be examined. Prerequisites: ARTS 349 and permission of the instructor. Instructor: Broker

ARTS 450–458  SPECIAL PROBLEMS (hours variable)
Study of advanced problems in creative art. May be used in awarding transfer credit. Prerequisite: permission of instructor.

ARTS 465/466  SCULPTURE I AND II (0-6-3 each semester)
Study of advanced problems in various sculptural media. Prerequisites: ARTS 365/366 and permission of instructor. Instructor: Smith

ARTS 475  ADVANCED PAINTING (3-3-3)
Study of advanced problems in painting, with emphasis on independent development and participation in class critiques. Prerequisites: ARTS 301, ARTS 303, and permission of instructor. Instructor: Poulos

ARTS 494  SPECIAL PROBLEMS IN PRINTMAKING (hours variable)
Study of problems at the advanced level in creative art. May be used in awarding transfer credit. Prerequisite: ART 225 and permission of instructor. Instructor: Broker

The following courses at the 500 level are for B.F.A. candidates only. Contact the Department of Art and Art History for information and application material for the B.F.A. Program.

ARTS 501  STUDIO I: PAINTING (0-6-3)
Individual work in painting under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 503  STUDIO I: SCULPTURE (0-6-3)
Individual work in sculpture under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 505  STUDIO I: DRAWING (0-6-3)
Individual work in drawing under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 507  STUDIO I: LIFE DRAWING (0-6-3)
Individual work in life drawing under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 509  STUDIO I: DESIGN (0-6-3)
Individual work in design under the direction of one or more staff members. Prerequisite: permission of instructor.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ARTS 511  STUDIO I: PRINTMAKING (0-6-3)  
Individual work in printmaking under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 513  STUDIO I: PHOTOGRAPHY (0-6-3)  
Individual work in photography under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 515  STUDIO I: FILMMAKING (0-6-3)  
Individual work in filmmaking under the direction of one or more staff members. Prerequisite: permission of instructor.

ARTS 520  STUDIO II: PAINTING (0-12-6)  
The same as ARTS 501 with increased credit hours. Prerequisite: permission of instructor.

ARTS 522  STUDIO II: SCULPTURE (0-12-6)  
The same as ARTS 503 with increased credit hours. Prerequisite: permission of instructor.

ARTS 524  STUDIO II: DRAWING (0-12-6)  
The same as ARTS 505 with increased credit hours. Prerequisite: permission of instructor.

ARTS 526  STUDIO II: LIFE DRAWING (0-12-6)  
The same as ARTS 507 with increased credit hours. Prerequisite: permission of instructor.

ARTS 530  STUDIO II: PRINTMAKING (0-12-6)  
The same as ARTS 511 with increased credit hours. Prerequisite: permission of instructor.

ARTS 532  STUDIO II: PHOTOGRAPHY (0-12-6)  
The same as ARTS 513 with increased credit hours. Prerequisite: permission of instructor.

ARTS 534  STUDIO II: FILMMAKING (0-12-6)  
The same as ARTS 515 with increased credit hours. Prerequisite: permission of instructor.

ARTS 546  STUDIO III: PHOTOGRAPHY (0-18-9)  
The same as ARTS 532 with increased credit hours. Prerequisite: permission of instructor.

ARTS 548  STUDIO III: FILMMAKING (0-18-9)  
The same as ARTS 534 with increased credit hours. Prerequisite: permission of instructor.

Asian Studies (ASIA)

The School of Humanities and the School of Social Sciences

ASIA 139(F)  INTRODUCTION TO INDIAN RELIGIONS (3-0-3)  
This course will survey the four major religions that originated in India, namely Hinduism, Buddhism, Jainism and Sikhism. Emphasis will be placed on the study of the scriptures of these traditions. Also offered as RELI 139. Instructor: Gray

ASIA 140(S)  INTRODUCTION TO CHINESE RELIGIONS (3-0-3)  
This course will survey the major Chinese religious traditions of Confucianism, Daoism and Buddhism. Readings will include philosophical texts, historical and anthropological studies, as well as popular literature. Also offered as RELI 140. Instructor: Gray

(F) = fall; (S) =
ASIA 211(F)  INTRODUCTION TO ASIAN CIVILIZATIONS (3-0-3)
Introduction to the great cultural traditions of ASIA, past and present, with emphasis on evolving religious and philosophical traditions, artistic and literary achievements, and patterns of political, social, and economic change. Enrollment limited to 40. Instructors: Smith, Klein and Qian

ASIA 250(F)  MEDITATION, MYSTICISM AND MAGIC (3-0-3)
The course moves between Buddhist religious and Western psychological literature, analyzing these as models of human development, as guides to a meditative life or critiques of it, and, above all, as expressions of deeply rooted culture proclivities. Reading Freud, Khakar, Milarepa, Norbu, Obeyesekere, Sutric and Tantric literature, Taylor and Wangyal. Also offered as RELI 250. Instructors: Klein, Parsons

ASIA 280(F)  THE ASIAN AMERICAN EXPERIENCE (3-0-3)
This course will investigate the diverse cultural traditions and shared experiences of Asian Americans in the United States, with an emphasis on people of Chinese, Filipino, Japanese, Korean, Southeast Asian, and South Asian ancestry. We shall explore the history of Asian immigration into the United States, as well as contemporary issues such as ethnic identity, racism, model minority stereotyping, interracial conflict, family structure, gender roles and relationships, and generational differences. We will analyze and discuss historical, social and literary texts, as well as documentary and feature films. Students are expected to gain from this course an appreciation of the cultural complexity of the Asian American community as well as a sense of its common interests and shared experiences. Also offered as ENGL 280. Instructor: Yeh

ASIA 299(F)  WOMEN IN CHINESE LITERATURE (3-0-3)
This course examines women’s roles in Chinese literature as writers, readers, and characters, focusing particularly on the tension between women’s lived bodily experiences and the cultural experiences inscribed on the female body and how, in the process, women have contrarily gendered patriarchal culture into their own. It will also touch on Chinese women’s incorporation of the Western tradition. Also offered as CHIN 299 and WGST 299. Not offered 2001–2002. Instructor: Qian

ASIA 330(S)  INTRODUCTION TO TRADITIONAL CHINESE POETRY (3-0-3)
Survey of traditional Chinese poetry and poetics, with emphasis on literary texts and theoretical essays. Includes “words and meanings”; the formation and transformation of poetic genres; the rhetorical function of figurative language, allegory, poetic allusions and intertextuality; and poems both by women and in women’s voices. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as CHIN 330. Not offered 2001–2002. Instructor: Qian

ASIA 332(S)  CHINESE FILMS AND MODERN CHINESE LITERATURE (3-0-3)
Exploration of modern Chinese literature through the visual imagery of Chinese films. Includes an analysis using literary history and narrative structure to link film adaptations to their original texts in Chinese fiction, with emphasis on narratology and movie theory. Films, subtitled in English, shown outside of class. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as CHIN 332. Not offered 2001–2002. Instructor: McArthur

ASIA 333(S)  TAIWAN LITERATURE AND FILM (3-0-3)
This course introduces literature and film from Taiwan, with a focus on Taiwan’s literary and cultural production since Taiwan’s modernist movement of the 1960s. The course is taught within the context of Taiwan’s historical and economic development apart from China. An overriding theme of the course is how Taiwan’s contact with the “outside” —Japan, China, and the West has resulted in a Taiwanese cultural identity, and how this new identity has led to both creation of new literary products and a reevaluation of the whole of Taiwan’s cultural history. Major fictive works to be read include those from the modernist, nativist, and post-martial law periods; major directors to be studied include Edward Yang, Hou Hsiao-hsien, and Ang Lee. Also offered as CHIN 333. Instructor: McArthur

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ASIA 334(F)  INTRODUCTION TO TRADITIONAL CHINESE NARRATIVE (3-0-3)
Introduction to the basic features of traditional Chinese narrative. Includes historical records, biographies, novels, and short stories, with emphasis on analysis of narrative structure and characterization, using Western as well as Chinese literary theories. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as CHIN 334. Not offered 2001–2002. Instructor: Qian

ASIA 335(F)  INTRODUCTION TO CLASSICAL CHINESE LITERATURE: NOVELS (3-0-3)
Examination of the basic characteristics of classical Chinese novels, primarily through six important works from the 16th to 18th centuries: Water Margin, Monkey, Golden Lotus, Scholars, Romance of the Three Kingdoms, and Dream of the Red Chamber. Includes discussion of issues in comparative narratology and their application to the Chinese case. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as CHIN 335.

ASIA 344(F)  KOREAN LITERATURE (3-0-3)
Exploration of selections from modern Korean literature and film. Includes background survey of Korean history, philosophy, and religion. All texts and films in English translation. No previous knowledge of Korean required. Also offered as KORE 344 and HUMA 344. Not offered 2001–2002. Instructor: Yang

ASIA 345(S)  ORIGIN AND DEVELOPMENT OF KOREAN AND RELATED LANGUAGES IN EAST ASIA (3-0-3)
This course focuses on the origin of Korean and related languages. It explores the way the Korean language evolved and interacted with other East Asian languages, including Chinese and Japanese. The sociolinguistic aspect of these languages will be studied, including the difference in male and female language usage and the honorific systems. This class is conducted in English; no previous knowledge of Korean is required. Also offered as KORE 345 and LING 345.

ASIA 346(F)  KOREAN CULTURE AND HISTORY (3-0-3)
Korean culture evolved, in the span of nearly five millennia, into a uniquely artistic, politically resilient, and socio-economically dynamic existence in today’s global economy. This course aims to introduce students to the important elements of Korean cultural traditions and of Korean History. One goal of this course is to teach students to identify the salient patterns of cultural construction in the major aspects of history, religion, thoughts and beliefs, family/marriage, and literary works. Films (including videos) are used in conjunction with lectures and class discussions to provide students a better understanding of the basics of Korean culture and history. Class will concentrate more on modern than traditional times. Knowledge of Korean not required. Also offered as KORE 346.

ASIA 360(S)  TRANSNATIONAL CHINA: CHINA AND THE CHINESE DIASPORA (3-0-3)
Exploration of the political, economic and social forces changing the lives of nearly a quarter of humanity, the 1.4 billion people of Mainland China, Taiwan, Hong Kong, Singapore and the diasporic Chinese communities of East and Southeast Asia. Topics include political and economic liberalization, nationalism and urban identity, privatization and consumerism, environmentalism and public goods, and the globalization of communication technologies and Chinese cultural media. Instructor: Lewis

ASIA 380(F)  THE ASIAN AMERICAN EXPERIENCE (3-0-3)
This course will investigate the diverse cultural traditions and shared experiences of Asian Americans in the United States, with an emphasis on people of Chinese, Filipino, Japanese, Korean, Southeast Asian, and South Asian ancestry. We shall explore the history of Asian immigration into the United States, as well as contemporary issues such as ethnic identity, racism, model minority stereotyping, interracial conflict, family structure, gender roles and relationships, and generational differences. We will analyze and discuss historical, social and literary texts, as well as documentary and feature films. Students are expected to gain from this course an appreciation of the cultural complexity of the Asian American community as well as a sense of its common interests and shared experiences. Also offered as ENGL 359. Instructor: Yeh
ASIA 399(F)  WOMEN IN CHINESE LITERATURE  (3-0-3)
Enriched version of ASIA 299. Also offered as CHIN 399 and WGST 399. Not offered 2001–2002.  
Instructor: Qian

ASIA 401(F)  INDEPENDENT STUDY

ASIA 402(S)  INDEPENDENT STUDY

Astronomy (ASTR)

The Wiess School of Natural Sciences/Department of Physics and Astronomy

ASTR 100(S)  EXPLORING THE COSMOS  (1-0-1)
Introduction to concepts and methods used to investigate the solar system, the Milky Way, and the universe as a whole. Intended for students interested in majoring in astrophysics or astronomy. Class discussions based on readings at the level of Scientific American and Sky and Telescope. Term paper required. Corequisite: PHYS 102 or PHYS 112.

ASTR 201  STARS, GALAXIES, AND THE UNIVERSE  (3-0-3)
An introductory course for students in academic programs. The formation, evolution, and death of stars; the composition and evolution of galaxies; the structure and evolution of the universe.

ASTR 202(F)  EXPLORATION OF THE SOLAR SYSTEM  (3-0-3)
An introductory course for students in academic programs, surveying the sun, planetary motions, interplanetary fields and plasmas, the planets, their satellites and rings, and comets. The purposes and methods of manned and unmanned solar system exploration are also discussed.

ASTR 205  FROM SPACE AND TIME TO SPACE-TIME: UNDERSTANDING RELATIVITY  (3-0-3)
Introduces nonscience students to major transformation in our views of space and time precipitated by Einstein’s special theory of relativity (SR). We will build a space-time framework and then use it to introduce the essential results of SR. We will also discuss the historical circumstances and philosophical and cultural implications surrounding the invention of SR. Enrollment limited to 30.

ASTR 230(S)  ASTRONOMY LABORATORY  (1-6-3)
An hands-on introduction to modern techniques of observational astronomy. Students use telescopes, CCDs, and computers to obtain and analyze their own images of solar system, galactic, and extragalactic objects. The course involves field trips to dark-sky observing sites such as George Observatory and makes extensive use of state-of-the-art data analysis software. Prerequisites: any one of the following courses plus consent of the instructor: ASTR 100, ASTR 201, ASTR 350, ASTR 360.

ASTR 350(F)  INTRODUCTION TO ASTROPHYSICS—STARS  (3-0-3)
An introduction to celestial mechanics, radiative transfer, stellar structure, stellar evolution, and stellar remnants (including black holes and neutron starts). Aspects of planetary science and solar system formation may also be explored. Together, ASTR 350 and ASTR 360 provide a comprehensive survey of modern astrophysics needed for senior research and graduate study in astronomy. Either ASTR 350 or 360 may be taken first. Prerequisite: MATH 211. Corequisite: PHYS 202 or CHEM 312.

ASTR 360(S)  INTRODUCTION TO ASTROPHYSICS—GALAXIES AND COSMOLOGY  (3-0-3)
Morphology, kinematics, and dynamics of the Milky Way and external galaxies, including interstellar matter and evidence for dark matter. Peculiar and active galaxies, including interacting systems and evidence for supermassive black holes in active galactic nuclei such as quasars. Large-scale structure and expansion of the universe, including various cosmologies ranging from the inflationary big bang theory to steady-state and anthropic concepts. Either ASTR 350 or 360 may be taken first. Prerequisite: MATH 211. Corequisite: PHYS 202 or CHEM 312.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
Astronomy–ASTR

ASTR 400  UNDERGRADUATE SEMINAR IN ASTROPHYSICS (1-0-1)
Seminar on current research topics in astronomy, astrophysics, and space physics for juniors and seniors. Students will be expected to give one oral presentation each semester. May be repeated for credit.

ASTR 402  TEACHING EARTH AND SPACE SCIENCE (3-0-3)
Overview of the Earth and the solar system, their structure, evolution and dynamics. Fundamental of Earth and Space Science topics as taught in 6th grade. Includes mathematics of solar system motion at level of algebra and simple trigonometry. Includes teaching in use of Earth and solar system software and weather station software. This course is designed for science and math teachers (grades 6-12), but is also available for a general audience. One hour of lab per week. Also offered as EDUC 588. Not offered 2001–2002.

ASTR 403(S)  ASTRONOMY FOR TEACHERS (3-0-3)
Learn how to teach astronomy concepts as specified by the state of Texas. This class provides the most basic concepts and what is necessary for students to master them, following the development specified in the TEKS. Lab activities suitable for replication in K–9 classrooms and as local field trip experience. Also offered as EDUC 589.

ASTR 430(S)  TEACHING ASTRONOMY LABORATORY (2-3-3)
Methods and facilities of observational astronomy for public education. Students will help train beginners in the use of telescopes and carry out a modest observational program of their own. The course requires one public talk to a nontechnical audience and internship work at the George Observatory and the Houston Museum of Natural Science. Prerequisites: ASTR 230, ASTR 350 or 360, or permission of instructor.

ASTR 450  EXPERIMENTAL SPACE SCIENCE (3-0-3)
Study of instruments and methods used in space physics and astronomy. May include the electromagnetic spectrum, cosmic rays, neutrinos, magnetic fields, and particles in the solar system, as well as discussion of special techniques for remote sensing or for the analysis of massive astronomical data sets. Prerequisites: ASTR 250 and 330 or permission of instructor. Not offered 2001–2002.

ASTR 451(F)  SOLAR AND STELLAR ASTROPHYSICS (3-0-3)
Undergraduate version of ASTR 551. Prerequisites: ASTR 350 or ASTR 360 and PHYS 301 and PHYS 302.

ASTR 470(F)  SOLAR SYSTEM PHYSICS (3-0-3)
The sun, solar-terrestrial relationships, solar wind; planetary atmospheres, ionospheres, and magnetospheres. Prerequisites: ASTR 350 or ASTR 360 and PHYS 301, 302.

ASTR 500  GRADUATE SEMINAR (1-0-1)
A presentation of current research programs in the department. May be repeated for credit.

ASTR 505(F)  PROCESSES IN COSMIC PLASMAS (3-0-3)
Study of plasma phenomena that occur widely in nature. May include quasi-static equilibrium, magnetic equilibrium, magnetic reconnection, particle acceleration, plasma winds and jets, and interchange instabilities. Prerequisites: ASTR 470 and 480.

ASTR 542  NEBULAR ASTROPHYSICS (3-0-3)

ASTR 551(F)  ASTROPHYSICS I: SUN AND STARS (3-0-3)

ASTR 552(S)  ASTROPHYSICS II: GALAXIES AND COSMOLOGY (3-0-3)
The physics of interstellar matter; structure of the Milky Way and other normal galaxies; physical cosmology and high-redshift phenomena.

(F) = fall; (S) = spring
ASTR 565 COMPACT OBJECTS (3-0-3)
Selected topics involving white dwarfs, neutron stars, black holes and their environments, e.g.,
pulsars, supernova remnants, and accretion disks.

ASTR 600 ADVANCED TOPICS IN ASTROPHYSICS (3-0-3)
Seminars which treat topics of departmental interest. Not offered every year.

Bioengineering (BIOE)

The George R. Brown School of Engineering

BIOE 252(F) BIOENGINEERING FUNDAMENTALS (3-0-3)
Introduction to material, energy, charge and momentum balances in biological systems. Steady-state and transient conservation equations for mass, energy, charge and momentum will be derived using basic mathematical principles, physical laws, stoichiometry, and thermodynamics properties. Required for students intending to major in bioengineering. Prerequisites: PHYS 125 and 126, CHEM 121 and 122, MATH 101 and 102, CAAM 211 or 210. Corequisite: MATH 211. Instructor: McIntire

BIOE 321(F) CELLULAR ENGINEERING (3-0-3)
Introduction to engineering principles and modeling at the cellular level. Topics include cytomechanics, receptor/ligand binding, genetic engineering, enzyme kinetics, and metabolic pathway engineering. Prerequisite: BIOE 252 or permission of instructor. Instructor: Athanasiou

BIOE 322(S) FUNDAMENTALS OF SYSTEMS PHYSIOLOGY (3-0-3)
This course will teach the fundamentals of physiology at the organism, tissue, and cellular levels. Emphasis will be on engineering aspects of physiology. This course includes several projects and written assignments. Prerequisite: Introductory Biology and Differential Equations. Instructor: West

BIOE 342(S) LAB MODULE IN TISSUE CULTURE (1-0-1)
Introduction to tissue culture techniques, including cell passage, cell attachment and proliferation assays, and a transfection assay. Taught in first and second halves of spring semester. Prerequisite: BIOS 211 or CHEM 214 or permission of instructor. Instructor: Saterbak

BIOE 372(S) INTRODUCTION TO BIOMECHANICS AND BIOMATERIALS (3-0-3)
Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues. Physical and chemical properties of biomaterials. Materials covered include both natural and synthetic ones intended to function in the biological environment. Prerequisite: BIOE 252 or permission of instructor. Instructor: Athanasiou

BIOE 381(F) FUNDAMENTALS OF ELECTROPHYSIOLOGY (3-0-3)
Introduction to the electrophysiology of the cell membrane. Development of mathematical models of different types of ionic membrane currents and fluid compartment models, culminating in the development of functional whole-cell models for neurons and muscle (cardiac, skeletal and smooth muscle) cells. Characterization of volume conductor boundary value problems encountered in electrophysiology consisting of the adequate description of the bioelectric current source and the volume conductor (surrounding tissue) medium. This provides a basis for the interpretation of macroscopic bioelectric signals such as the electrocardiogram (ECG), electromyogram (EMG) and electroencephalogram (EEG). Also offered as ELEC 381. Prerequisite: permission of instructor. Instructor: Clark

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
BIOE 383(F)  BIOMEDICAL ENGINEERING INSTRUMENTATION AND ANALYSIS (3-0-3)
This is an introductory level course on fundamentals of biomedical engineering instrumentation and analysis. Topics will include measurement principles; fundamental concepts in electronics including circuit analysis, data acquisition, amplifiers, A/D converters. And electrical safety; temperature, pressure, flow, and optical sensing techniques in cardiovascular, pulmonary, and nervous system; and measurements of molecular and cellular properties. Additionally, basic methods in statistical inference and linear regression will be covered. Also offered as ELEC 383. Prerequisites: MATH 211 and 212, PHYS 126 or equivalent, CHEM 122, and BIOS 201. Instructor: Anvari

BIOE 384(S)  BIOPHOTONICS INSTRUMENTATION AND APPLICATIONS (3-0-3)
Introduction to fundamentals of biophotonics instrumentation related to coherent light generation, transmission by optical components such as lenses and fibers, and modulation and detection. Interference and polarization concepts and light theories including ray and wave optics will be covered. Biomedical applications in optical sensing and diagnosis will be discussed. Prerequisites: MATH 211 and 212, PHYS 126 or equivalent, and BIOS 201. Instructor: Anvari

BIOE 400(F)  UNDERGRADUATE RESEARCH (hours variable)
Instructor: Staff

BIOE 420(F)  BIOSYSTEMS TRANSPORT AND REACTION PROCESSES (3-0-3)
The principles of reaction kinetics and transport phenomena will be used to quantitatively describe biological systems. Cell biology, physiology, anatomy, and materials science topics will be covered as background for the study of cell membrane transport, receptor-ligand interactions, and normal organ function. Models will be introduced to describe pathological conditions, drug pharmaco-kinetics, and artificial organ designs. Prerequisites: MATH 211 and 212. Instructor: Mikos

BIOE 441(F)  ADVANCED BIOENGINEERING LAB (4-0-3)
Laboratory modules include biomaterial synthesis and characterization, systems physiology, ethics, mechanical testing of bone and skin, laser tweezers. Lectures focus on application of statistics in bioengineering. Required for students majoring in bioengineering. Prerequisite: BIOE 342. Instructor: Saterbak

BIOE 460(S)  INTRODUCTION TO BIOTECHNOLOGICAL PROCESSES (3-0-3)
Study of enzyme kinetics, immobilized enzymes, cell cultivation, the stoichiometry of microbial growth and product formation, bioreactor design, agitation, and aeration, and downstream processing. Also offered as CENG 460. Instructor: San

BIOE 472(F)  EXPERIMENTAL BIOMECHANICS (3-0-3)
Introduction to experimental biomechanical techniques used to assess biomaterials and tissues. This course will primarily concentrate on elastic, viscoelastic, and plastic testing of selected hard and soft tissues and metals and polymers used in implants. Prerequisite: BIOE 372 or instructor’s permission. Instructor: Liebschner

BIOE 481(F)  COMPUTATIONAL NEUROSCIENCE (3-0-3)
Introduction to the nervous system is given including the electrophysiology of nerve and muscle cells, synaptic transmission and sense receptors. The theory underlying Hodgkin-Huxley-type models of excitable cells is discussed, and several examples of models for neurons, muscle cells, and synapses are used as case studies. Modeled neurons are interconnected using synaptic models to form functional representations of small neural networks. At all levels, comparisons are made with experimental data. Course provides an introduction to biological modeling and computation. Prerequisite: permission of instructor. Also offered as ELEC 481. Instructor: Clark
BIOE 482(S)  PHYSIOLOGICAL CONTROL SYSTEMS (3-0-3)
Nervous system control of biological systems can be represented utilizing techniques common to
the field of linear, nonlinear, or adaptive control theory. This course begins with a review of the
basic aspects of control theory, followed by detailed discussion of the structure of several biological
systems, including the visual, cardiovascular, and pulmonary systems. Specific examples of neural
control are developed for each system, utilizing modeling and simulation techniques. Parameter
sensitivity analysis and parameter estimation techniques are likewise brought to bear on some of
these models to achieve good least-squares fits to experimental data. Prerequisite: permission of
instructor. Also offered as ELEC 482. Instructor: Clark

BIOE 483(F)  MATHEMATICS OF COMPUTER SCIENCE (3-0-3)
Study of mathematical induction, recursive definitions and recurrence equations, finite state ma-
chines, computability, and logic. Also offered as COMP 482. Instructor: Kavraki

BIOE 485(F)  FUNDAMENTALS OF MEDICAL IMAGING I (3-0-3)
The course will introduce basic medical imaging modalities, such as x-ray, CT, and MRI, used
to identify the anatomy of human organs, as well as other modalities, such as PET, SPECT,
fMRI, and MEG, specifically developed to localize brain function. The course includes visits to
clinical sites. Also offered as ELEC 485 and COMP 485. Prerequisite: permission of instructor.
Instructor: Anvari

BIOE 486(S)  FUNDAMENTALS OF MEDICAL IMAGING II (3-0-3)
The objective of this course is to introduce the fundamentals of imaging brain function, as opposed
to brain structure, using invasive and non invasive imaging modalities. In addition, basic techniques
for fusing multimodal images in a single three-dimensional representation are presented, along
with some specific clinical applications. Also offered as ELEC 486 and COMP 486. Prerequisite:
Fundamentals of Medical Imaging I. Instructor: Zouridakis

BIOE 500(F)  GRADUATE RESEARCH (hours variable)
Instructor: Staff

BIOE 522  GENE THERAPY (3-0-3)
This course will review of the principles and strategies underlying gene therapy approaches in
animal models and human beings. The current methods for gene delivery to cells ex vivo and
in vivo will be discussed along with current cutting-edge approaches for improving the specific-
ity and persistence of gene expression. The course will also cover current disease applications
of gene therapy and the strategies taken to produce therapeutic results. Regulatory and ethical
considerations will be covered as well. Instructor: Barry

BIOE 531(F)  BIOMATERIALS ENGINEERING (3-0-3)
Emphasis will be placed on design and synthesis of materials to achieve specific properties. An
overview of significant biomaterials application will be given, including topics such as ophthalmic
biomaterials, orthopedic applications, cardiovascular biomaterials, and drug-delivery systems.
Regulatory issues concerning biomaterials will also be addressed. Prerequisite: organic chemistry
and biology. Instructor: West

BIOE 551(F)  INTRODUCTION TO BIOENGINEERING (1-0-1)
Seminar/tutorial introducing current research in bioengineering and biotechnology to acquaint
students with activities of various labs at Rice and the Texas Medical Center. Also offered as CENG
551. Prerequisite: graduate standing or permission of instructor. Instructor: McIntire

BIOE 572(S)  FUNDAMENTALS OF SYSTEMS PHYSIOLOGY (3-0-3)
Graduate version of BIOE 322.

BIOE 575(F)  ADVANCED BIOMECHANICS (3-0-3)
Biomechanical models at an advanced mathematical level. Selected topics in tensor analysis,
continuum biomechanics, mixture theories, elasticity, and viscoelasticity. Applications in soft and
hard tissues. Prerequisite: BIOE 372 or permission of instructor. Instructor: Athanasiou

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
BIOE 580(F)  ADVANCED NEURONAL MODELING AND NETWORKS (3-0-3)

Introduction to mathematical techniques used in modeling neurons and neural systems. Includes review of membrane ion channel kinetics, the mathematical characterization of parts of the neuron (e.g., soma, axon, and dendritic tree), vertebrate and invertebrate neuron models, and models of axonal and volume conduction in the medium surrounding the axon. Emphasis on neuron models exhibiting pacing and bursting activity important in central pattern generation. Introduction to natural and artificial neural networks, as well as neuromorphic systems designed using analog CMOS technology. Guest lectures in selected application areas. Prerequisite: permission of instructor. Also offered as ELEC 580. Instructor: Clark

BIOE 581(F)  CARDIOVASCULAR DYNAMICS (3-4-4)

Analysis of properties and functions of the cardiovascular system. Includes detailed study of cardiac electrophysiology, ventricular mechanics, arterial hemodynamics, coronary and cerebral output flow, as well as therapeutic devices and computer-controlled drug-delivery systems with their mathematical models. Internship project with engineer of life scientist working in the Texas Medical Center required. Prerequisites: ELEC 481, 482, and 507 (or equivalent). Also offered as ELEC 581. Not offered every year.

BIOE 584(S)  LASERS IN MEDICINE AND BIOENGINEERING (3-0-3)

This course will provide an overview of various types of interactions between lasers and biological tissues. Optically based diagnostic procedures, including low-coherence tomography and photothermal techniques, will be introduced. Mathematical models of light propagation, methods of optical properties measurements, optical trapping, and selected therapeutic applications of lasers will be addressed. Prerequisites: Differential Equations and Introductory Physics. Instructor: Anvari

BIOE 589(F)  COMPUTATIONAL MOLECULAR BIOENGINEERING (3-0-3)

This is a course designed for students in computationally-oriented biomedical and bioengineering majors to introduce the principles and methods used for the simulations and modeling of macromolecules of biological interest. Protein conformation and dynamics are emphasized. Empirical energy function and molecular dynamics calculations, as well as other approaches, are described. Specific biological problems are discussed to illustrate the methodology. Classic examples such as the cooperative mechanism of hemoglobin and more frontier topics such as the motional properties of molecular motors and ion channels as well as results derived from the current literature are covered. Other potential topics are protein folding/predictions, the nature of reaction rate enhancement in enzyme catalysis, physical chemistry properties of biologically relevant nano-materials, simulations of free energy changes in mutations, electrostatic properties of protein, molecular recognition, and the properties of binding sites. Particular emphasis is also given to the applications of molecular graphics. During the final reading period, each student carries out an original research project that makes use of the techniques and grading is based on the written and oral presentations of the results from the final projects. Suggested prerequisites: college-level calculus, undergraduate level physical chemistry and biochemistry, entry-level thermodynamics and statistical mechanics. Also offered as BIOS 588. Instructor: Ma

BIOE 595(F)  MODELING TISSUE MECHANICS (3-0-3)

Independent study and seminar course that focuses on modeling the mechanical properties of biological tissues. Data from experiments will be used to refine the predictions of nonlinear mathematical computer models. Designed for juniors, seniors, and graduate students. Laboratory work performed at Baylor College of Medicine and computer work done at Rice University. Also listed as MECH 595.

BIOE 620(S)  TISSUE ENGINEERING (3-0-3)

Study of cell, cell interactions and the role of the extracellular matrix in the structure and function of normal and pathological tissues. Includes strategies to regenerate metabolic organs and to repair structural tissues, as well as cell-based therapies to deliver proteins and other therapeutic drugs, with emphasis on issues related to cell and tissue transplantation such as substrate properties, angiogenesis, growth stimulation, cell differentiation, and immunoprotection. Also offered as CENG 620.

(F) = fall; (S) = spring
BIOE–Bioengineering / BIOS–Biosciences

BIO 681(F) ADVANCED TOPICS IN BIOCHEMICAL ENGINEERING (3-0-3)
Advanced study in several areas. May include the modeling of biological systems, the measurement and control of bioreactors, the genetic and metabolic engineering of microorganisms, plant cell cultures, and animal cell cultures. Prerequisites: MATH 211 and MATH 212. Instructor: San

BIO 685(F) FUNDAMENTALS OF MEDICAL IMAGING (3-0-3)
The course will introduce basic medical imaging modalities, such as x-ray, CT, and MRI, used to identify the anatomy of human organs, as well as other modalities, such as PET, SPECT, fMRI, and MEG, specifically developed to localize brain function. The course includes visits to clinical sites. Also offered as ELEC 685 and COMP 685. Instructor: Anvari

BIO 686(S) FUNDAMENTALS OF MEDICAL IMAGING II (3-0-3)
The objective of this course is to introduce the fundamentals of imaging brain function, as opposed to brain structure, using invasive and non invasive imaging modalities. In addition, basic techniques for fusing multimodal images in a single three-dimensional representation are presented, along with some specific clinical applications. Prerequisite: Fundamentals of Medical Imaging I. Instructor: Zouridakis

BIO 690(S) SPECIAL TOPICS COURSE: INTRODUCTION TO BIOMECHANICS AND BIOMATERIALS (3-0-3)
Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues. Physical and chemical properties of biomaterials. Materials covered include both natural and synthetic ones intended to function in the biological environment. Instructor: K. Athanasiou

BIOE 698(F) GRADUATE SEMINAR (1-0-1)
Instructor: Staff

BIOE 699(S) GRADUATE SEMINAR (1-0-1)
Instructor: Staff

Biosciences (BIOS)
The Wiess School of Natural Sciences/Department of Biochemistry and Cell Biology, and Department of Ecology and Evolutionary Biology

BIOS 105 PROBLEM SOLVING IN THE BIOMEDICAL SCIENCES (1-0-1)
Instructor: Oliver

BIOS 106 PROBLEM SOLVING IN THE BIOMEDICAL SCIENCES (1-0-1)
Instructor: Oliver

BIOS 122(S) FUNDAMENTAL CONCEPTS IN BIOLOGY (3-0-3)
Introduction to specific concepts in modern biology from molecular to organismal levels. May include recombinant DNA, genetic engineering, AIDS, and other topics of medical relevance. Open to nonscience, nonengineering majors only. Instructors: Stern, Staff

BIOS 201(F) INTRODUCTORY BIOLOGY (3-0-3)
First course in an integrated sequence (BIOS 201–202 and 301–302). Includes chemistry and energetics, cell physiology, cell biology, organ system physiology, immunology, and plant physiology. Required for biosciences majors. Corequisite: CHEM 101 or permission of instructor. Instructor: Gustin

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
BIOS 202(S)  INTRODUCTORY BIOLOGY (3-0-3)
Second course in an integrated sequence (BIOS 201–202 and 301–302). Includes transmission genetics, molecular genetics, development, behavior, evolution, ecology, and diversity. Required for biosciences majors. Prerequisite: BIOS 201 or permission of instructor. Instructors: Staff

BIOS 205  ECOLOGY, NATURAL HISTORY, AND PHILOSOPHY OF NATURE (3-0-3)
This course is designed to prepare its participants for more knowledgeable interaction with the natural world, and to encourage them to begin developing a “philosophy of nature.” In it, we will consider readings in ecology, environmental ethics, and philosophy of science. We will also take field trips and explore the flora and fauna around the Rice campus. Enrollment limited to 30. May not be offered in 2001–2002. Instructor: Staff

BIOS 207  EVOLUTION, GENETICS, AND SOCIETY (3-0-3)
Introduction to concepts of evolution, genetics, and molecular genetics with an emphasis on history, cultural context, and political issues. Instructor: Oliver

BIOS 211  INTRODUCTORY LAB MODULE IN BIOLOGICAL SCIENCES (1-4-2)
Introduction to the scientific method, principles of experimental design, selected research strategies, record keeping, and technical communication as related to biological science. Taught in the first half of each semester. Registration requires completion of a form and selection of a lab day at the website http://ruf.rice.edu/~bioslabs/bios211/signups/211signup.html. Limited enrollment. Co-/Prerequisite: BIOS 201 or equivalent. Instructor: Caprette

BIOS 213  INTRODUCTORY LAB MODULE IN ECOLOGY AND EVOLUTIONARY BIOLOGY (1-4-1)
Experimental, laboratory, and field studies of natural history, evolution, and animal behavior. Includes computer simulations of population genetics. Monday lecture and one afternoon lab section during second half of each semester. Limited enrollment (60). Required for biosciences majors. Prerequisite: BIOS 211. Instructor: Sullender

BIOS 301(F)  BIOCHEMISTRY (3-0-3)
Third course in an integrated sequence (BIOS 201–202 and 301–302). Includes structure and function of proteins, enzymes, and nucleic acids and molecular biology. Required for biosciences majors and graduate students in biochemistry and cell biology. Prerequisites: CHEM 211-212 and BIOS 201–202 or permission of instructor. Instructors: Gomer, Olson, Shamoo

BIOS 302(S)  BIOCHEMISTRY (3-0-3, Group A)
Fourth course in an integrated sequence (BIOS 201–202 and 301–302). Includes metabolism, membranes, electron transport, oxidative phosphorylation, and regulation. Required for biosciences majors and graduate students in biochemistry and cell biology. Prerequisite: BIOS 301 or permission of instructor. Instructor: Staff

BIOS 307  GENETICS: BIOLOGICAL, CULTURAL-HISTORICAL, AND ETHICAL PERSPECTIVES (3-0-3)
This course uses an interdisciplinary perspective to examine the claims and counterclaims made regarding genetics and new technologies for identifying and manipulating genetic material. The course will cover the biological basics of genes, DNA, and sequencing techniques; cultural and historical aspects of approaches to genetics, including essentialism and eugenics past and present; ethical issues arising from new genetic technologies; and policy issues. Also offered as ANTh 314 and UNIV 314. Instructors: Georges, Matthews, S. McIntosh

BIOS 309  SEMINAR IN RESEARCH METHODOLOGY (2-0-2)
A course based on laboratory research done outside the university that will use seminars, discussion, and papers to develop communication skills in research. Prerequisite: permission of instructor. Instructor: Rudolph
BIOS 310 INDEPENDENT STUDY FOR UNDERGRADUATES  
(1 to 4 hours credit each semester)  
Program of independent study for students with previous training in the biosciences. Includes a research paper. Students are expected to spend at least three hours per week in the laboratory for each semester hour of credit. If taken for two or more hours, counts as one required lab course but not as a Group A or B course. Prerequisites: BIOS 201–202, 3 hours of biological sciences lab, and permission of supervising faculty member and department chair. May be repeated for credit. **Instructors: Rudolph, Sass**  

BIOS 311 LAB MODULE IN PROTEIN PURIFICATION (1-4-1)  
Introduction to biochemical laboratory techniques, with emphasis on study of proteins. Taught in first half of each semester. Limited enrollment (24 per section). Required for biosciences majors. Prerequisite: BIOS 211 or permission of instructor. Corequisite: BIOS 301 or permission of instructor. **Instructor: Beason-Armendarez**  

BIOS 312 LAB MODULE IN MOLECULAR BIOLOGY I (1-4-1)  
Introduction to microbiological and molecular biology techniques. Taught in second half of fall semester and first half of spring semester. Limited enrollment (28 per section). Prerequisites: BIOS 211 and 311 or permission of instructor. Corequisite: BIOS 301 or permission of instructor. **Instructor: Beason-Armendarez**  

BIOS 313(S) LAB MODULE IN MOLECULAR BIOLOGY II (1-4-1)  
Introduction to DNA sequencing techniques. Taught in second half of spring semester. Limited enrollment (28 per section). Prerequisite: BIOS 311 or permission of instructor. **Instructor: Beason-Armendarez**  

BIOS 314 LAB MODULE IN CELL BIOLOGY (1-4-1)  
Application of transmission electron microscopy to research in cell biology. Starts the second week of the semester. Students will interview a faculty investigator and design and conduct an experiment involving preparation and examination of samples for the electron microscope. A written protocol will be submitted and the completed work presented in seminar form. Recommended for students interested in a research career. Limited enrollment. Prerequisite: permission of instructor. Recommended co-/prerequisites: BIOS 301, 311, and 341. **Instructor: Caprette**  

BIOS 315(S) LAB MODULE IN PHYSIOLOGY (1-4-1)  
An instrumentation-intensive short course in membrane electrophysiology and vertebrate nerve and muscle physiology. Research reports require interpretation of laboratory data in terms of concepts at the molecular level. Starts the second half of the semester. Limited enrollment. Prerequisite: BIOS 301 or equivalent. **Instructor: Caprette**  

BIOS 316(F) LAB MODULE IN MICROBIOLOGY (1-4-1)  
Training in the isolation, culture, observation, and assay of bacteria. Qualitative analysis of a mixed culture. Starts the second half of the semester, self-scheduled after the first four formal meetings. Requires daily attention to cultures during the week. Limited enrollment. Prerequisite: BIOS 211 or equivalent. **Instructor: Caprette**  

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
BIOS 319 (S)  TROPICAL FIELD ECOLOGY (1-8-3)
Course includes weekly meetings with lecture and readings during spring semester and a field trip to Central/South America immediately after commencement. Students will become familiar with ecological field techniques; the taxonomy and natural history of various groups of organisms; and conceptual and theoretical ecology, evolution, and science in general. Prerequisites: BIOS 201, 202, 213, and permission of instructor. Instructor: Sullender

BIOS 321 (F)  ANIMAL BEHAVIOR (3-0-3, Group B)
Use of evolutionary theory to evaluate behavioral adaptations of organisms to their environment. Prerequisite: BIOS 202 or permission of instructor. Instructor: Strassmann

BIOS 322 (S)  GLOBAL ECOSYSTEM DYNAMICS (3-0-3, Group B)
Systems analysis of the earth from a biological perspective, with emphasis on biogeochemical cycles and global change. Prerequisites: BIOS 201–202 or permission of instructor. Offered in odd-numbered years. Instructor: Sass

BIOS 324 (S)  WETLAND ECOSYSTEMS (3-0-3, Group B)
Study of coastal wetlands, including floodplains, swamps, and freshwater, brackish, and saline marsh systems, with regard to biological importance, interactions, wetland development, and management strategies. Prerequisites: BIOS 201–202, 325, 329, and 336 or permission of instructor. Offered in even-numbered years. Limit 20 students. Instructor: Fisher

BIOS 325 (S)  ECOLOGY (3-0-3, Group B)
Analysis of population dynamics, species interactions, plant and animal community organization, and ecosystem function. Prerequisites: BIOS 201–202 or junior standing in a science/engineering major or permission of instructor. Instructor: Siemann

BIOS 329 (F)  ANIMAL BIOLOGY AND PHYSIOLOGY (3-0-3, Group B)
The evolution and systematics of the animal kingdom, with consideration of functional morphology, comparative physiology, behavior, medical implications, and management options. Prerequisites: BIOS 201–202 or permission of instructor. Instructor: Fisher

BIOS 334 (F)  EVOLUTION (3-0-3, Group B)
Study of the principles of biological evolution. Includes natural selection, adaptation, molecular evolution, the formation of new species, the fossil record, biogeography, and principles of classification. Prerequisites: BIOS 201–202 or permission of instructor. Instructor: Queller

BIOS 336 (S)  PLANT DIVERSITY (3-0-3, Group B)
A systematic survey of the kingdoms of photosynthetic organisms, with emphasis on flowering plants and the patterns, causes and conservation of plant biodiversity. Prerequisites: BIOS 201–202. Instructor: Harcombe

BIOS 341 (F)  CELL BIOLOGY (3-0-3, Group A)
Study of the molecular mechanisms of processes common to all cells. Includes the structure, function, and biogenesis of all subcellular organelles, with emphasis on cytoplasmic events. (Molecular studies of transcription are taught in BIOS 344.) Prerequisites: BIOS 201–202 or permission of instructor. Corequisite: BIOS 301 or permission of instructor. Instructors: Braam, Staff

BIOS 343 (F)  DEVELOPMENT (3-0-3, Group A)
Analysis of the processes and principles of development as seen in a broad spectrum of eukaryotic organisms. Prerequisites: BIOS 201–202 or permission of instructor. Instructor: Novotny

BIOS 344 (S)  MOLECULAR BIOLOGY AND GENETICS (3-0-3, Group A)
Analysis of the transmission, function, and molecular structure of genetic material. Prerequisites: BIOS 201–202 and 301 or permission of instructor. Instructor: Stewart

(F) = fall; (S) = spring
BIOS 352(S)  PHYSICAL CHEMISTRY FOR THE BIOSCIENCES  
(3-0-3, Group A)  
Study of selected aspects of physical chemistry as it relates to the biosciences. Includes thermodynamics, reaction rate theory, quantum mechanics, and atomic and molecular structure. Required for biochemistry majors and graduate students in biochemistry and cell biology. Prerequisites: CHEM 211-212, PHYS 125 and 126 (or 101 and 102), and BIOS 301 or permission of instructor. *Instructors: Nikonowicz, Olson*  

BIOS 390  TRANSFER CREDIT IN BIOCHEMISTRY AND CELL BIOLOGY  (3-0-3, Group A)  

BIOS 391  TRANSFER CREDIT IN ECOLOGY AND EVOLUTIONARY BIOLOGY  (3-0-3, Group B)  

BIOS 401(F)  UNDERGRADUATE HONORS RESEARCH  
BIOS 402(S)  (0-15-5 each semester)  
Participation in research for at least two semesters. Open only to undergraduate biosciences majors who meet specific requirements. Prerequisites: BIOS 201–202 and 301–302. Corequisites: BIOS 411 for BIOS 401 and BIOS 412 for BIOS 402.  

BIOS 404(S)  GRAVITY AND LIFE: IMPORTANT PROBLEMS IN BIOLOGY AND BIOENGINEERING  (1-0-1)  
Investigation of important problems in biology and bioengineering related to the space program, including analysis of the physiological and molecular mechanisms used by living organisms to sense and respond to mechanical stimuli. A multi-instructor, lecture-and-discussion course including professors from Rice University and Johnson Space Center. May not be offered in 2001–2002. *Instructor: Staff*  

BIOS 411(F)  UNDERGRADUATE RESEARCH SEMINAR  
BIOS 412(S)  (1-0-1 each semester)  
Discussion of current research in area under investigation. Corequisites: BIOS 401 for BIOS 411 and BIOS 402 for BIOS 412. *Instructors: Rudolph, Sass*  

BIOS 421(S)  NEUROBIOLOGY  (3-0-3, Group A)  
Study of the cellular and molecular mechanisms of nervous system function, with emphasis on membrane and synaptic biophysics, sensory and motor systems, neuronal plasticity, and development. Prerequisites: BIOS 201, 202, and 301. Open to juniors, seniors, and graduate students. *Instructor: Glantz*  

BIOS 422(S)  ENDOCRINOLOGY  (3-0-3, Group A)  
Study of the molecular and cellular mechanisms of hormone synthesis and of target cell responses. Includes hormonal interactions in mammalian homeostasis. Prerequisites: BIOS 201–202 and 301–302. May not be offered in 2001–2002. *Instructor: Staff*  

BIOS 423(S)  IMMUNOBIOLOGY  (3-0-3, Group A)  
Study of the cellular and molecular basis of immune function in mammals. Prerequisites: BIOS 201–202 and 301–302. *Instructor: Novotny*  

BIOS 424(S)  MICROBIOLOGY AND BIOTECHNOLOGY  (3-0-3, Group A)  
Study of the structure and function of microorganisms, with emphasis on their environmental, industrial, and medical importance. Prerequisites: BIOS 201, 202, and 301 or permission of instructor. Corequisite: BIOS 302 or permission of instructor. Open to juniors, seniors, and graduate students. *Instructor: Bennett*  

BIOS 425(F)  PLANT MOLECULAR BIOLOGY  (3-0-3, Group A)  
Study of novel aspects of plant biology and development, with emphasis on molecular and genetic mechanisms. Includes plant responses to the environment and the use of bioengineering and other means to develop new plant products. Prerequisites: BIOS 201–202 and 301 or permission of instructor. *Instructors: Braam, Gibson*
BIOS 432(S)  ADVANCED EVOLUTIONARY BIOLOGY (3-0-3, Group B)
In-depth study of selected topics in evolutionary theory and their application to behavior and adaptation. May include kin selection, sexual selection, molecular evolution, evolution of disease, systematics, and population genetics. Prerequisites: BIOS 201–202 and either 321 or 334. Instructor: Staff

BIOS 440(F)  ENZYME MECHANISMS (3-0-3, Group A)
Enzymology is a biological extension of organic chemistry. This course will survey examples of enzyme-catalyzed reactions with emphasis on mechanisms. Enzymes that use catalytic cofactors (vitamins) will be covered, as will those that rely only on amino acid side chains. Same course as CHEM 440. Prerequisite: CHEM 212. Instructor: Matsuda

BIOS 442(S)  SPECIALIZED CELL FUNCTION (3-0-3, Group A)
Study of structure and/or function specializations seen in selected types of cells and tissues in higher animals. BIOS 341 recommended. Prerequisites: BIOS 201–202 and 301–302. May not be offered in 2001–2002.

BIOS 445(F)  ADVANCED MOLECULAR BIOLOGY AND GENETICS (3-0-3, Group A)
Study of molecular and genetic aspects of the regulation of gene expression as seen in simple prokaryotic systems and in the model eukaryotic systems used for studies of development. Prerequisites: BIOS 201–202, 301, and 344 or permission of instructor. Instructors: Bartel, Stern

BIOS 481(F)  MOLECULAR BIOPHYSICS (3-0-3, Group A)
Examination, at an intermediate level, of the interaction of light with matter. Includes UV-visible absorption, natural optical activity, fluorescence, EXAFS, EPR, NMR of biomolecules, x-ray diffraction and crystallography, neutron scattering, electron microscopy, and theoretical protein dynamics. Required for biochemistry majors. Prerequisites: BIOS 301 and 352 or permission of instructor. Instructors: Nikonowicz, Shamoo

BIOS 525(F)  PLANT MOLECULAR BIOLOGY (3-0-3)
Study of novel aspects of plant biology and development, with emphasis on molecular and genetic mechanisms. Includes plant responses to the environment and the use of bioengineering and other means to develop new plant products. Same course as BIOS 425. Instructors: Braam, Gibson

BIOS 530(S)  LABORATORY MODULE IN NMR SPECTROSCOPY AND MOLECULAR MODELING (2-6-2)
The students will learn to set up, acquire, and process one-dimensional and basic two-dimensional NMR experiments. Spectral interpretation (resonance assignment and extraction of structural information) for nucleic acids and proteins, using homonuclear and heteronuclear data, will be performed. Molecular modeling, using NMR-derived structural information, will also be included. This course is designed to provide an overview of the utility of NMR spectroscopy as it relates to the structure and dynamics of biologically relevant macromolecules. Offered during the first half of spring semester. Enrollment limited to 12, with priority to graduate students. Prerequisites: BIOS 352 and 481 or permission of instructor. Instructor: Nikonowicz

BIOS 532(F)  LABORATORY MODULE IN SPECTROSCOPY (2-6-2)
Students will learn the principles behind fluorescence, circular dichroism, analytical ultracentrifugation, spectroscopy, and rapid kinetics by carrying out experiments with genetically engineered proteins and state-of-the-art equipment. Data will be interpreted and manipulated using curve-fitting and graphics software. The course will provide basic and experimental training in protein chemistry and biophysics. Offered during second half of spring semester. Enrollment limited to 12, with priority to graduate students. Prerequisites: BIOS 352 and 481 or permission of instructor. Instructors: Nichols, Olson

BIOS 533(F)  COMPUTATIONAL BIOLOGY (3-0-3)
Topics to rotate between bioinformatics, molecular imaging, and molecular biological/biochemical simulations. Lectures will be combined with practical exercises. Prerequisites: BIOS 301 and knowledge of computer operation or permission of instructor. Instructor: Staff

(F) = fall; (S) =
BIOS 535(F)  PRACTICAL X-RAY CRYSTALLOGRAPHY (3-0-3)
This is an introduction to macromolecular crystallography with emphasis on crystallization methods, data acquisition, processing, and molecular model-building. Approaches to solving structures will be discussed, as well as refinement of molecular models. Prerequisite: BIOS 481 or permission of instructor. *Instructor: Shamoo*

BIOS 541(F)  SPECIAL TOPICS IN ECOLOGY AND EVOLUTIONARY BIOLOGY (3-0-3)

BIOS 545(F)  ADVANCED MOLECULAR BIOLOGY AND GENETICS (3-0-3)
Study of molecular and genetic aspects of the regulation of gene expression as seen in simple prokaryotic systems and in model eukaryotic systems used for studies of development. Same course as BIOS 445. *Instructors: Bartel, Stern*

BIOS 561(F)  TOPICS IN EVOLUTION (2-0-2)
Review and discussion of literature on current research in evolution. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Queller, Strassmann*

BIOS 562(S)  TOPICS IN BEHAVIORAL ECOLOGY (2-0-2)
Review and discussion of literature on current research in animal behavior. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Queller, Strassmann*

BIOS 563(F)  TOPICS IN ECOLOGY (2-0-2)
Review and discussion of literature on current research in forest and grassland ecology. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Harcombe, Siemann, Rogers*

BIOS 565(F)  TOPICS IN WETLAND BIOLOGY (2-0-2)
Review and discussion of literature on current research in wetland ecosystems. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Fisher, Sass*

BIOS 566(S)  TOPICS IN GLOBAL ECOSYSTEM DYNAMICS (2-0-2)
Review and discussion of literature on current research in regional and global ecosystem dynamics. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Fisher, Sass*

BIOS 567(F)  RESEARCH METHODS IN FIELD BIOLOGY (2-0-2)
Introduction to the field research techniques and practices of individual faculty members. Open to first-year graduate students in ecology and evolutionary biology. Prerequisite: graduate standing or permission of department chair.

BIOS 568(F)  TOPICS IN BIOLOGICAL DIVERSITY (2-0-2)
Review and discussion of the recent primary scientific literature related to community ecology with an emphasis on the area of biodiversity. Prerequisite: graduate standing or permission of instructor and department chair. *Instructors: Siemann, Rogers, Harcombe*

BIOS 575(F)  INTRODUCTION TO RESEARCH IN BIOCHEMISTRY AND CELL BIOLOGY (1-0-1)
Introduction to the research programs and labs of individual faculty members. Open to first-year graduate students. Required for graduate students in biochemistry and cell biology.

BIOS 581(F)  GRADUATE SEMINAR IN BIOCHEMISTRY AND CELL BIOLOGY (1-0-1 each semester)
Discussion of selected research topics. Required for graduate students in biochemistry and cell biology. *Instructor: Rudolph*

BIOS 583(F)  MOLECULAR INTERACTIONS (1-0-1)
Review of literature on current biosciences research. Prerequisite: graduate status in Biochemistry and cell biology. Enrollment limited to graduate students. *Instructor: Staff*

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
BIOS 585(F)  GRADUATE SEMINAR IN ECOLOGY AND EVOLUTIONARY BIOLOGY (1-0-1)
Faculty and student presentations on current research. Required for graduate students in ecology and evolutionary biology. Instructor: Siemann

BIOS 586(S)  EVOLUTIONARY BIOLOGY (1-0-1)

BIOS 587(F)  GRADUATE SEMINAR FOR SECOND-YEAR STUDENTS IN BIOCHEMISTRY AND CELL BIOLOGY (3-0-3)
Preparation and presentation of research proposals. Prerequisite: graduate status in biochemistry and cell biology, second year. Instructor: Staff

BIOS 588(S)  ADVANCED CELL BIOLOGY (3-0-3)
Review of literature on current biosciences research. Open to seniors and graduate students only. Enrollment limited to 20. Instructors: Beckingham, Gomer

BIOS 589  COMPUTATIONAL MOLECULAR BIOPHYSICS
This is a course designed for computationally-oriented biomedical and bioengineering majors to introduce the principles and methods used for simulations and modeling of macromolecules of biological interest. Protein conformation and dynamics are emphasized. Empirical energy function and molecular dynamics calculations, as well as other approaches, are described. Particular emphasis is also given to the applications of molecular graphics. Each student carries out an original research project that makes use of techniques. Suggested prerequisites: college-level calculus, MATH 102, undergraduate level physical chemistry, CHEM 312 or BIOS 352, and BIOS 301, entry level thermodynamics and statistical mechanics. Level—first year graduate students and senior undergraduate students.

BIOS 590  SPECIAL TOPICS IN BIOCHEMISTRY AND CELL BIOLOGY (hours variable)
Development of specific topic areas at the graduate level. Prerequisite: graduate standing or permission of department chair and instructor. Instructors: Staff

BIOS 591  GRADUATE TEACHING (1-0-1)
Supervised instruction in teaching ecology and evolutionary biology. Prerequisite: graduate standing in Department of Ecology and Evolutionary Biology. Instructor: Staff

BIOS 592  SEMINAR IN COMPUTATIONAL BIOLOGY (1-0-1)
Discussion of selected research topics in computational biology. Prerequisite: graduate standing or permission of department chair and instructor. Instructor: Staff

BIOS 593  SPECIAL TOPICS: SURVEY OF CURRENT PLANT BIOLOGY RESEARCH (1-0-1)
Discussion of selected research topics in current plant biology literature. Prerequisite: graduate status or permission of chair. Instructors: Bartel, Braam, Gibson

BIOS 611(F)  RESEARCH SEMINAR (3-0-3 each semester)
Discussion of individual laboratory research or current topics in particular areas. Corequisite: BIOS 800 or permission of instructor.

BIOS 621(F)  THESIS SEMINAR (1-0-1 each semester)

BIOS 800  GRADUATE RESEARCH (hours variable)
Computational and Applied Mathematics (CAAM)

The George R. Brown School of Engineering

CAAM 210(F)  INTRODUCTION TO ENGINEERING COMPUTATION (3-0-3)
Introduction to engineering and scientific computation: engineering workstations, programming, software systems, and numerical methods. Laboratory to illustrate the application of computational and visualization methods. MATLAB serves as the primary computational and display tool, with supplementary programs written in C. Only one of the courses CAAM 210, 211 may be taken for credit. Prerequisite: MATH 101.

CAAM 211(S)  INTRODUCTION TO ENGINEERING COMPUTATION (3-0-3)
Introduction to engineering and scientific computation: engineering workstations, programming software systems, and numerical methods. Laboratory to illustrate the application of computational and visualization methods to problem analysis. MATLAB serves as the primary computational and display tool, with supplementary programs written in FORTRAN. Only one of the courses CAAM 210, 211 may be taken for credit. Prerequisite: MATH 101.

CAAM 321(F)  INTRODUCTION TO REAL ANALYSIS I (3-0-3)
Analysis of functions of a real variable. Real numbers, completeness, sequences and convergence, compactness, continuity, the derivative, the Riemann integral, fundamental theorem of calculus, sequences and series of functions, uniform convergence. First of a two-semester sequence. Prerequisites: MATH 211 and 212 or permission of the instructor.

CAAM 322(S)  INTRODUCTION TO REAL ANALYSIS II (3-0-3)
Continuation of CAAM 321. Linear maps and matrices, matrix norms, convergence of sequences, continuity and differentiability of functions on R^n, the derivative as a linear map, normed linear spaces, completeness, the contraction mapping principle, inverse and implicit function theorems, fundamental theorems on ODEs, compactness, multivariate integration. Prerequisite: CAAM 321.

CAAM 335  MATRIX ANALYSIS (3-0-3)
Equilibria and the solution of linear and linear least squares problems. Dynamical systems and the eigenvalue problem with the Jordan form and Laplace transform via complex integration. Prerequisite: CAAM 210 or 211.

CAAM 336(S)  DIFFERENTIAL EQUATIONS IN SCIENCE AND ENGINEERING (3-0-3)
Green’s functions, exponential and series solutions, and numerical methods for initial and boundary value problems of mathematical physics. Dynamics of mass-spring systems and circuits; heat flow; and wave motion. Emphasis on scientific and engineering motivation and consequences and on modern computational methods. Prerequisites: MATH 211 or CAAM 335, MATH 212, and CAAM 210 or 211.

CAAM 353(S)  COMPUTATIONAL NUMERICAL ANALYSIS (3-0-3)
An introductory course in numerical analysis with computer applications. Prerequisite: MATH 211.

CAAM 355  INTRODUCTION TO MANAGEMENT SCIENCE (3-0-3)
An introduction to operations research techniques that are useful in managerial decision making. The emphasis in the course is on formulating models, evaluating their strengths and weaknesses, and interpreting their solutions. Applications are taken from finance, production planning, transportation, inventory control, and other management areas. Prerequisite: a statistics course.

CAAM 378(S)  INTRODUCTION TO OPERATIONS RESEARCH (3-0-3)
An alternative to CAAM 376 for students with a year of calculus. Some knowledge of linear algebra and of probability is desirable.

(0-0-0) = class hours/week - lab hours/week - credits hours/semester
CAAM 420  COMPUTATIONAL SCIENCE I (3-0-3)
Scientific programming using high level languages, including C, Fortran, and C++. Emphasis on use of numerical libraries. Basic techniques of project planning, source management, documentation, program construction, i/o, visualization. Object-oriented design for numerical computation. Prerequisites: CAAM 210 or 211; CAAM 335 or 353, or consent of instructor.

CAAM 421  COMPUTATIONAL SCIENCE II (3-0-3)
Vector, shared-memory, and message-passing parallel computer architectures. Numerical linear algebra for these architectures. Memory hierarchy issues, analysis and enhancement of performance, and use of programming tools and environments. Application interfaces including OpenMP and MPI. Parallel numerical algorithms and scientific visualization. Prerequisite: CAAM 420.

CAAM 435  ORDINARY DIFFERENTIAL EQUATIONS (3-0-3)
Review of the fundamental properties of nonlinear systems. Includes nonlinear ordinary differential equations (e.g., the existence and uniqueness of solution), Lyapunov stability (e.g., stability definitions, Lyapunov’s direct method, invariance theory, stability of linear systems, Lyapunov’s linearization methods, and converse theorems), and input-output stability (e.g., the small gain theorem and passivity theorem), as well as case studies showing applications to nonlinear and adaptive control and robotics. Also offered as ELEC 508 and MECH 508.

CAAM 436(F)  PARTIAL DIFFERENTIAL EQUATIONS I (3-0-3)
Derivation and solution of partial differential equations of continuum physics. Basic concepts of continuum mechanics, ideal fluids, Navier-Stokes equations, linear elasticity, acoustics. Poisson problem, Green’s function, variational formulation, Sobolev spaces, Rayleigh-Ritz principle, existence of weak solutions, justification of the finite element method. First of a two-semester sequence. Prerequisites: CAAM 321 and 322 or permission of the instructor.

CAAM 437(S)  PARTIAL DIFFERENTIAL EQUATIONS II (3-0-3)
Continuation of CAAM 436. Newtonian heat flow, the Gaussian kernel, Fourier transform in L2, analysis of smoothing property, Maxwell’s equations, weak solutions, distributions, propagation of discontinuity in 1D, Green’s function in 3D, Fourier analysis, additional topics at discretion of instructor. Prerequisite: CAAM 436.

CAAM 441(F)  SEISMOLOGY I
Principles of elastic wave initiation, propagation, and reflection in ideal media and real rocks. Required prerequisites: MATH 211 and PHYS 101/102. Recommended prerequisites: MATH 212 (may be taken concurrently), ESCI 441/442, and CAAM 336. Also offered as ESCI 461.

CAAM 442(S)  SEISMOLOGY II
Review of elastodynamics. Calculation of synthetic seismograms for acoustic and elastic media using reflectivity, asymptotic, and finite difference methods. Migration of reflection data by finite difference, FK, and Kirchhoff methods. Travel time inversion. Prerequisite: CAAM 441 or ESCI 461. Also offered as ESCI 542.

CAAM 451(F)  NUMERICAL LINEAR ALGEBRA (3-0-3)
Detailed study of numerical methods for the basic problems of linear algebra. Includes derivation, analysis, and computer implementation of algorithms for the solution of linear systems, least squares problems, eigenvalue problems, floating point arithmetic, rounding error analysis, matrix and vector norms, and sensitivity analysis. Prerequisite: CAAM 335 or MATH 355.

CAAM 452(S)  COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS (4-0-4)
Finite difference, variational, and collocation methods for approximating numerically the solutions of ordinary and partial differential equations. Computer implementation to verify convergence to the solution. Prerequisites: CAAM 335 and 336 or permission of instructor.

CAAM 453(F)  NUMERICAL ANALYSIS AND ORDINARY DIFFERENTIAL EQUATIONS (3-0-3)
Numerical analysis of iterative methods for linear systems, approximation and interpolation, and numerical solution of ordinary differential equations. Prerequisite: MATH 211.

(F) = fall; (S) = spring
CAAM 454(S)  OPTIMIZATION PROBLEMS IN COMPUTATIONAL ENGINEERING AND SCIENCE (3-0-3)
An introduction to the formulation of optimization problems and their numerical solution with application to problems in science and engineering. Prerequisites: proficiency in Fortran or C, and understanding of numerical linear algebra and calculus.

CAAM 460(F)  OPTIMIZATION THEORY (3-0-3)
Derivation and application of necessity conditions and sufficiency conditions for constrained optimization problems. Prerequisites: MATH 212 and CAAM 335 or MATH 355.

CAAM 470(F)  INTRODUCTION TO GRAPH THEORY (3-0-3)
Study of the structure and properties of graphs, together with a variety of applications. Includes paths, cycles, trees, connectivity, matching, colorings, planarity, directed graphs, and algorithms. Some knowledge of linear algebra is recommended.

CAAM 471(F)  LINEAR PROGRAMMING (3-0-3)
Formulation of managerial and technical problems; simplex and revised simplex methods; duality theory, optimality conditions, and sensitivity analysis; interior-point methods; selected applications and advanced techniques. Also offered as ECON 471.

CAAM 475(S)  INTEGER AND COMBINATORIAL OPTIMIZATION (3-0-3)
Modeling and solving optimization problems with discrete components, graphs, and networks; network flow problems; minimum spanning trees; basic polyhedral theory; the knapsack problem; the plant location problem; the set packing problem; computational complexity; branch and bound; cutting planes; Lagrangian relaxation and Bender’s decomposition. Prerequisite: CAAM 471. Also offered as ECON 475.

CAAM 485  MESO-SCALE NUMERICS SEMINAR (1-0-1)
Introduction to particle/continuum coupling numerical techniques.

CAAM 490(F)  INDEPENDENT STUDY (hours variable)

CAAM 491(S)  INDEPENDENT STUDY (hours variable)

CAAM 513  CONSULTING IN COMPUTATIONAL AND APPLIED MATHEMATICS (3-0-3)
Learn about various research topics in applied mathematics. Lectures in consulting, presentation skills, and various topics, as needed for the consulting projects. Prerequisite: permission of instructor.

CAAM 540(S)  APPLIED FUNCTIONAL ANALYSIS (3-0-3)
Hilbert spaces, Banach spaces, spectral theory, and weak topologies with applications to signal processing, control, and partial differential equations. Prerequisite: MATH 425 or permission of instructor.

CAAM 551(S)  ADVANCED NUMERICAL LINEAR ALGEBRA (3-0-3)
Study of iterative and/or direct methods for large-scale problems. May be repeated for credit, with permission of instructor. Prerequisite: CAAM 451 or permission of instructor.

CAAM 552(F)  NUMERICAL METHODS PARTIAL DIFFERENTIAL EQUATIONS I (3-0-3)
Analysis of modern numerical methods. Includes finite difference methods, finite element methods, collocation methods, and associated algebraic problems.

CAAM 553(S)  NUMERICAL METHODS PARTIAL DIFFERENTIAL EQUATIONS II (3-0-3)
Continuation of CAAM 552.
CAAM 554(S)  NUMERICAL NONLINEAR PROGRAMMING (3-0-3)
Analysis of modern numerical methods for constrained problems, including variable metric methods, successive quadratic programming, and trust region methods.

CAAM 563(F)  ENGINEERING APPROACH TO MATHEMATICAL PROGRAMMING (3-0-3)
Study of the minimization of functions of variables that are either unconstrained, subject to equality constraints, subject to inequality constraints, or subject to both equality and inequality constraints. Includes analytical and computational methods. Also offered as MECH 563.

CAAM 564(S)  OPTIMAL CONTROL (3-0-3)
Study of optimal control theory and calculus of variations. Includes minimization of functionals depending on variables subject to differential constraints, nondifferential constraints, initial constraints, and final constraints, as well as analytical and computational methods. Also offered as MECH 564.

CAAM 570  ADVANCED TOPICS IN GRAPH THEORY (3-0-3)
Provides an overview of the main research topics in Graph Theory. Each student will report regularly on some selected area, each student will complete an extensive survey of their own area, and there will be progress reports on their research in that area. To further enhance speaking and writing skills, representatives of the Cain Project will act as speaking and writing coaches, videotape the formal presentations and give constructive feedback on oral presentations and written reports. Prerequisite: CAAM 470.

CAAM 571(S)  ADVANCED INTEGER AND COMBINATORIAL OPTIMIZATION (3-0-3)
Material will vary from year to year. Emphasis will be on methods for solving optimization problems with discrete components. Possible topics include: polyhedral structure of fundamental problem classes, matrix properties of integral polyhedra, cardinality and weighted matching, matroids and polymatroids, submodular functions, the ellipsoid algorithm and its consequences, integer lattices, advanced integer programming techniques. Prerequisite: CAAM 475.

CAAM 574(F)  INTEGER PROGRAMMING (3-0-3)
Applications, theory, and computational methods in pure and mixed integer programming. Special problem structures.

CAAM 575(S)  TOPICS IN INTEGER PROGRAMMING (2-0-2)
Seminar on selected topics in integer programming. Topics will vary from year to year. May be repeated for credit.

CAAM 583(F)  INTRODUCTION TO RANDOM PROCESSES AND APPLICATIONS (3-0-3)
Review of basic probability and the formulation, analysis, representation, and application of some standard random processes. Includes sequences of random variables, random vectors and estimation, basic concepts of random processes, random processes in linear systems, expansion of random processes, wiener filtering, spectral representation of random processes, and white-noise integrals. Prerequisite: CAAM 381 (CAAM 581 recommended). Also offered as ELEC 533 and STAT 583.

CAAM 590(F)  INDEPENDENT STUDY (hours variable)
CAAM 591(S)  INDEPENDENT STUDY (hours variable)
CAAM 592(S)  TOPICS IN APPLIED MATH (3-0-3)
CAAM 597(F)  OPTIMIZATION WITH SIMULATION CONSTRAINTS (3-0-3)
Nonlinear programming techniques for the case that the primary constraints are varying fidelity simulations of complex systems. Nonlinear programming approaches studied will include very large-scale trust-region sequential quadratic programming techniques. Prerequisites: CAAM 460 and 454 or permission of the instructor.

(F) = fall; (S) = spring
CAAM 601(F)  RESEARCH ETHICS SEMINAR (2-0-2)
This case-based course will focus on incidents and issues commonly encountered in the preparation, conduct, and reporting of scientific research. Topics covered include: peer review, conducting research, authorship, research fraud, and conflicts of interest (bioethics issues will not be covered in this course). Also offered as COMP 601.

CAAM 620–625  SPECIAL TOPICS (hours variable)
May be repeated for credit.

CAAM 652(S)  TOPICS IN NUMERICAL PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)
Content varies from year to year.

CAAM 654(S)  TOPICS IN OPTIMIZATION (3-0-3)
Content varies from year to year. Course may be repeated for credit.

CAAM 800  THESIS (hours variable)

Chemical Engineering (CENG)

The George R. Brown School of Engineering

CENG 301(F)  CHEMICAL ENGINEERING FUNDAMENTALS (3-0-3)
Exploration of the use of basic mathematical concepts, physical laws, stoichiometry, and the thermodynamic properties of matter to obtain material and energy balances for steady and unsteady state systems. Required for sophomores intending to major in chemical engineering. Corequisite: CENG 303. Instructors: Davis, Zygourakis

CENG 303(F)  COMPUTER PROGRAMMING FOR CHEMICAL ENGINEERS (1-3-2)
Introduction to UNIX, MATLAB, MAPLE, and FORTRAN with chemical engineering applications. Required for majors in chemical engineering. Corequisite for students in CENG 301. Instructor: Davis

CENG 305(S)  COMPUTATIONAL METHODS IN CHEMICAL ENGINEERING (3-0-3)

CENG 343(S)  CHEMICAL ENGINEERING LAB I (2-3-3)
Experiments demonstrating the principles presented in CENG 301, 390, and 401. Required for majors in chemical engineering. Instructor: K. Cox

CENG 390(F)  KINETICS AND REACTOR DESIGN (3-3-4)
Principles and significance of chemical kinetics. Includes procedures for evaluating kinetic parameters from reaction rate data and the application of these methods to design (and to predict the performance of) various types of ideal and nonideal chemical reactors in both homogeneous and heterogeneous systems. Required for majors in chemical engineering. Instructor: Hightower

CENG 401(F)  TRANSPORT PHENOMENA I (3-0-3)
Introduction to fluid mechanics. Application to design of flow systems. Instructor: Miller

(0-0-0) = class hours/week - lab hours/week - credits hours/semester
CENG 402(S)  TRANSPORT PHENOMENA II (3-0-3)
Continuation of CENG 401. Required for majors in chemical engineering. Instructor: Staff

CENG 403(F)  EQUIPMENT DESIGN (3-3-4)
Design and economic analysis of chemical process equipment. Includes the use of computer
design packages in the analysis of chemical equipment. Required for B.S. majors in chemical engineering. Instructor: K. Cox

CENG 404(S)  PROCESS DESIGN (3-3-4)
Optimal design of chemical processes and survey of industrial economic principles. Includes
special process design projects in small groups. Required for B.S. majors in chemical engineer-
ing. Instructor: K. Cox

CENG 411(S)  THERMODYNAMICS I (3-0-3)
Development and application of the first and second laws of thermodynamics. Required for majors
in chemical engineering. Instructor: Goveas

CENG 412  THERMODYNAMICS II (3-0-3)
Advanced treatment of chemical and phase equilibrium in multicomponent systems. In-
cludes a detailed study of nonideal solutions. Required for majors in chemical engineering. Instructors: Chapman

CENG 420(F)  BIOSYSTEMS TRANSPORT AND REACTION
PROCESSES (3-0-3)
Application of the basic principles of transport and reaction to analyze momentum, heat, mass
transport, and reaction processes in the human body. Includes mathematical modeling to describe
physiologic function, to understand pathological conditions, and to design bioartificial organs,
with emphasis on the quantification of biomedical systems in relation to underlying molecular
mechanisms and cellular behavior. Prerequisite: MATH 211 and 212. Also offered as BIOE 420. Instructor: Mikos

CENG 443(F)  CHEMICAL ENGINEERING LAB II (2-3-3)
Experiments demonstrating transport coefficient measurement, forced and free convection transfer
operations, and thermodynamic principles as covered in CENG 401, 402, and 411. Required for
majors in chemical engineering. Instructor: K. Cox

CENG 460(S)  INTRODUCTION TO BIOTECHNOLOGICAL
PROCESSES (3-0-3)
Enzyme kinetics; immobilized enzymes; cell cultivation; stoichiometry of microbial growth and
product formation; bioreactor design, agitation, and aeration; downstream processing. Also of-
fered as BIOE 460. Instructor: San

CENG 470(F)  PROCESS DYNAMICS AND CONTROL (3-0-3)
Modeling of dynamic processes. Includes the response of uncontrolled systems, transfer functions,
feedback controllers, the response and stability of controlled systems, frequency response, and
cascade, feed-forward, and multivariable control systems, as well as an introduction to computer
control and the use of simulators to design feedback controllers. Required for B.S. majors in
chemical engineering. Prerequisites: CENG 301 and 302, MATH 211 and 212, and PHYS 101
and 102. Instructor: K. Cox

CENG 500  UNDERGRADUATE RESEARCH (1 to 6 hours
credit)
Independent investigation of a specific topic or problem in modern chemical engineering research
under the direction of a selected faculty member. May be repeated for credit. Prerequisite: permis-
sion of department. Instructor: Robert

CENG 501(F)  FLUID MECHANICS AND TRANSPORT
PROCESSES (3-0-3)
Advanced study in fluid mechanics and transport processes. Includes analytical and numerical
approximation methods, boundary layer theory, and potential flow theory. Instructor: Hirasaki

(F) = fall; (S) =
CENG 503(S) CHEMICAL ENGINEERING PROCESSES: AIR POLLUTION CONTROL (3-0-3)
Examines sources, characterization, and effects of atmospheric pollutants $O_3$, CO, HC, VOC, NO$_x$, SO$_x$, and particulates; regulatory issues and pollution standards; dispersion models and meteorology; and techniques, with emphasis on those employing catalysts, used in pollution control. **Instructor: McKee**

CENG 540(S) STATISTICAL MECHANICS (3-0-3)
A development of the principles of statistical mechanics with applications to problems of chemical interest. Prerequisites: CHEM 311 and 312 or equivalent. Also offered as CHEM 522. Not offered 2001–2002.

CENG 551(F) INTRODUCTION TO BIOENGINEERING (1-0-1)
Seminar/tutorial introducing current research in bioengineering and biotechnology to acquaint students with activities of various labs at Rice and the Texas Medical Center. Prerequisite: graduate standing or permission of instructor. Also offered as BIOE 551. **Instructor: McIntire**

CENG 560(F) INTERFACIAL PHENOMENA (3-0-3)
Interfacial tension, wetting and spreading, contact angle hysteresis, interaction between colloid particles, stability of interfaces, and flow and transport near interfaces. **Instructor: Miller**

CENG 571(S) FLOW AND TRANSPORT THROUGH POROUS MEDIA I (3-0-3)
Study of the geology, chemistry, and physics of multicomponent, multiphase fluids in porous media. Includes hydrostatic and hydrodynamic properties of fluids in soils and rocks and the simulation of fundamental transport processes in one dimension. **Instructor: Hirasaki**

CENG 590(S) KINETICS, CATALYSIS, REACTOR ENGINEERING (3-0-3)
Review of kinetics and reactor design equations, heterogeneous catalysis, and catalyst preparation, diffusion, and reaction in catalyst pellets. Includes conservation equations, analysis of stirred tank, tubular, and nonideal reactors, multiplicity and stability of steady states, and a comprehensive laboratory experiment on catalysis. **Instructors: Hightower, Zygourakis**

CENG 591(S) HETEROGENEOUS CATALYSIS (3-0-3)
Study of the principles of heterogeneous catalysis. Includes catalyst preparation and measurement, the significance of surface physical and chemical properties, adsorption, heterogeneous kinetics, diffusion in porous media, catalyst poisoning and regeneration, aspects of reactor engineering, and a review of selected commercial catalytic reactions. Prerequisite: CENG 390 (or equivalent). Not offered 2001–2002.

CENG 593(F) POLYMER SCIENCE AND ENGINEERING (3-0-3)
Basic concepts in macromolecular chemistry and their application in the synthesis and chemical modification of polymers. Prerequisites: CHEM 211–212. Also offered as MSCI 593. **Instructor: Armeniades**

CENG 594(S) PROPERTIES OF POLYMERS (3-0-3)
Study of the molecular organization and physical properties of polymeric materials. Includes elastomeric, semicrystalline, and glassy polymers, as well as the processing and technology of polymeric systems. Also offered as MSCI 594. **Instructor: Armeniades**

CENG 600 M.C.H.E. RESEARCH (1 to 6 hours credit)
Independent investigation of a topic or a problem in modern chemical engineering research under the direction of a selected faculty member. May be repeated for credit. Prerequisite: permission of department. **Instructor: Zygourakis**

CENG 601(F) FLUID MECHANICS AND TRANSPORT (3-0-3)
Advanced study in one of several areas of fluid mechanics or transport. Includes tensor analysis, continuum mechanics, rheology, and mathematical methods of special interest in fluid mechanics. Not offered 2001–2002.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
CENG 602(S) PHYSICOCHEMICAL HYDRODYNAMICS (3-0-3)
Study of transport processes, especially those with accompanying flow, chemical reaction, or phase transformation. *Instructor: Miller*

CENG 611(F) ADVANCED TOPICS IN THERMODYNAMICS (3-0-3)
Advanced treatment of the thermodynamics of pure and multicomponent systems. Includes topics ranging from classical thermodynamics to a discussion of modern developments. *Instructor: Chapman*

CENG 615(S) APPLICATION OF MOLECULAR SIMULATION AND STATISTICAL MECHANICS (3-0-3)
Instruction in molecular simulation techniques and the application of statistical mechanics-based theory to engineering problems. Includes topics of current research interest. Prerequisites: knowledge of thermodynamics and familiarity with statistical mechanics. Not offered 2001-2002.

CENG 620(S) TISSUE ENGINEERING (3-0-3)
Study of cell-cell interactions and the role of the extracellular matrix in the structure and function of normal and pathological tissues. Includes strategies to regenerate metabolic organs and to repair structural tissues, as well as cell-based therapies to deliver proteins and other therapeutic drugs, with emphasis on issues related to cell and tissue transplantation such as substrate properties, angiogenesis, growth stimulation, cell differentiation, and immunoprotection. Also offered as BIOE 620. *Instructor: Mikos*

CENG 661(F) GRADUATE SEMINAR (1-0-1 each semester)
May be repeated for credit. *Instructor: Staff*

CENG 671(S) FLOW AND TRANSPORT THROUGH POROUS MEDIA II (3-0-3)
Instruction in the calculation of multicomponent-multiphase transport in one to three dimensions using finite difference methods. Includes development of multidimensional models of systems and the representation and estimation of geological heterogeneity. *Instructor: Hirasaki*

CENG 672(F) APPLIED MATHEMATICS I (3-0-3)
Application of mathematics to engineering problems. Includes such topics as vector spaces, linear transformations, linear equations, Gauss elimination, band matrices, finite differences, determinants, inner products, norms, orthogonality, eigenvalues and eigenvectors, diagonalization, similarity transformations, ordinary differential equations, unitary transformations, Jordan canonical forms, quadratic forms, least squares, QR factorization, and an introduction to finite elements. *Instructor: Goveas*

CENG 681(F) ADVANCED TOPICS IN BIOCHEMICAL ENGINEERING (3-0-3)
Advanced study in several areas. May include the modeling of biological systems, the measurement and control of bioreactors, the genetic and metabolic engineering of microorganisms, plant cell cultures, and animal cell cultures. Also offered as BIOE 681. *Instructor: San*

CENG 700 M.S. RESEARCH AND THESIS (1 to 12 hours credit)
May be repeated for credit. *Instructor: Zygourakis*

CENG 760 BAYLOR/RICE M.D./PH.D. PROGRAM (1 to 3 hours credit)
Prerequisite: permission of department. May be repeated for credit. *Instructor: Zygourakis*

CENG 800 PH.D. RESEARCH (hours variable)
May be repeated for credit. *Instructor: Zygourakis*
Chemistry (CHEM)

The Wiess School of Natural Sciences

CHEM 121(F)  GENERAL CHEMISTRY WITH LABORATORY (3-2.5-4)
Introduction to chemical phenomena, with emphasis on problems and methods in chemistry, including laboratory. Students must sign up for a laboratory section on the Internet by filling in the on-line form accessed at http://www.owlnet.rice.edu/~chem121 as well by registering for the course. Required for chemistry and chemical physics majors (may substitute CHEM 151 for CHEM 121 as a prerequisite for upper-level study in chemistry, but may take only one for credit). Prerequisite: high school chemistry. Instructors: Wiediger, McHale

CHEM 122(S)  GENERAL CHEMISTRY WITH LABORATORY (3-2.5-4)
Continuation of CHEM 121 (including laboratory). Required for chemistry and chemical physics majors (may substitute CHEM 152 for CHEM 122 as a prerequisite for upper-level study in chemistry, but may take only one for credit). Students must sign up for a laboratory section on the Internet by filling in the on-line form accessed at http://www.owlnet.rice.edu/~chem122 as well by registering for the course. Prerequisite: CHEM 121 or 151. Instructors: Glass, McHale

CHEM 151(F)  HONORS CHEMISTRY WITH LABORATORY (3-2.5-4)
An in-depth survey of chemical phenomena emphasizing principles and theories in chemistry. Recommended strongly for students who plan to major in chemistry and for those with a strong high school background in the subject. (May substitute CHEM 151 for CHEM 121 as prerequisite for upper-level study in chemistry, but may take only one for credit.) Students must sign up for a laboratory section on the Internet by filling in the on-line form accessed at http://www.owlnet.rice.edu/~chem151 as well by registering for the course. Enrollment limited. Prerequisites: high school chemistry, physics, calculus, and permission of instructor. Instructors: Whitmire, McHale

CHEM 152(S)  HONORS CHEMISTRY WITH LABORATORY (3-2.5-4)
Continuation of CHEM 151. May not receive credit for both CHEM 122 and 152. Students must sign up for a laboratory section on the Internet by filling in the on-line form accessed at http://www.owlnet.rice.edu/~chem152 as well by registering for the course. Prerequisite: CHEM 151 or permission of instructor. Instructors: Whitmire, McHale

CHEM 211(F)  ORGANIC CHEMISTRY (3-0-3)
Study of aliphatic organic chemistry, with emphasis on structure, bonding, stereochemistry, and reaction mechanisms. Required for chemistry and chemical physics majors. Must take CHEM 211 before CHEM 212. Prerequisites: CHEM 121–122 or 151–152. Instructors: Engel, Parry

CHEM 212(S)  ORGANIC CHEMISTRY (3-0-3)
Continuation of CHEM 211, with emphasis on aromatic compounds and the chemistry of various functional groups. Required for chemistry and chemical physics majors. Prerequisite: CHEM 211. Instructors: Tour, Parry

CHEM 215(F)  ORGANIC CHEMISTRY LABORATORY (1-3-2)
Study of the synthesis, purification, and characterization of organic compounds. Lecture followed by lab once a week. Required for chemistry majors. Corequisite: CHEM 211. Instructors: Billups, McHale

CHEM 217(F)  ORGANIC LABORATORY FOR CHEMICAL ENGINEERS (0-3-1)
Organic laboratory designed for Chemical Engineering majors. Emphasis will be placed on the synthesis and the characterization of organic compounds. This laboratory does not satisfy requirements for science majors or premedical students. Prerequisite: CHEM 122. Limited enrollment to 48. Instructors: Billups, McHale

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
CHEM 311(F) PHYSICAL CHEMISTRY (3-0-3)
Introduction to the fundamental principles of physical chemistry. Includes quantum chemistry, chemical bonding, and molecular spectroscopy. Required for chemistry and chemical physics majors. PHYS 202 and NSCI 230 recommended. Prerequisites: MATH 211 and 212, PHYS 101 and 102 (or 111 and 112), and CHEM 121–122 (or 151–152). Instructors: Kolomeisky, Scuseria

CHEM 312(S) PHYSICAL CHEMISTRY (3-0-3)
Continuation of CHEM 311. Includes the principles of thermodynamics, statistical thermodynamics, the kinetic theory of gases, chemical kinetics, and reaction dynamics. Required for chemistry and chemical physics majors. NSCI 230 recommended. Prerequisites: MATH 211 and 212, PHYS 101 and 102 (or 111 and 112), and CHEM 121–122 (or 151–152). Instructor: Kinsey

CHEM 351(F) INTRODUCTORY MODULE IN EXPERIMENTAL CHEMISTRY (1-8-1)
Experiments illustrating techniques in synthetic inorganic chemistry and instrumental methods of analysis. Required for chemistry majors. Taught in first half of semester. Prerequisite: Sophomore status or permission of instructor. Instructor: Wilson

CHEM 352(F) INTRODUCTORY MODULE IN EXPERIMENTAL CHEMISTRY (1-8-1)
Experiments illustrating techniques in synthetic organic chemistry and instrumental methods of analysis. Required for chemistry majors. Taught in second half of semester. Prerequisite: CHEM 351 or permission of instructor. Instructor: Matsuda

CHEM 353(S) INTRODUCTORY MODULE IN ANALYTICAL METHODS (1-8-1)
Experiments illustrating techniques in analytical chemistry, data analysis, data precision and accuracy. Quantitative measurements will be stressed including volumetric techniques. Instructor: Colvin

CHEM 360(S) INORGANIC CHEMISTRY (3-0-3)
Survey of the periodic table; atomic and molecular structure; and bonding in covalent, ionic, and electron-deficient systems, as well as thermochemical principles and experimental techniques for analysis, structure determination, and synthesis. Required for chemistry majors. Instructors: Margrave, Barron

CHEM 373(S) ADVANCED MODULE IN FULLERENE CHEMISTRY (0-8-1)
Study of synthesis, separation, and purification of fullerenes followed by their characterization through spectroscopic, electrochemical, and photophysical measurements. Meets one-half semester only. Prerequisite: CHEM 352. Not offered every year. Instructor: Weisman

CHEM 374(S) ADVANCED MODULE IN SYNTHETIC CHEMISTRY (0-8-1)
Study of advanced synthetic methods in organic chemistry. Meets one-half semester only. Prerequisite: CHEM 352. Instructor: Parry

CHEM 375(S) ADVANCED MODULE IN INORGANIC CHEMISTRY (0-8-1)
Study of the synthesis, separation, purification and characterization of inorganic and organometallic compounds. Meets one-half semester only. Prerequisite: CHEM 352. Not offered every year. Instructor: Staff

CHEM 381(F) ADVANCED MODULE IN PHYSICAL CHEMISTRY A (0-8-1)
Study of experimental physical chemistry. Offered in first half of semester. Prerequisites: CHEM 351 and CHEM 352. Corequisite: CHEM 311. Some knowledge of MATLAB required. Instructor: Brooks

(F) = fall; (S) = spring
CHEM 382(F)  ADVANCED MODULE IN PHYSICAL CHEMISTRY B (0-8-1)
Study of experimental physical chemistry. Offered in second half of semester. Prerequisites: CHEM 351 and CHEM 352. Corequisite: CHEM 311. Some knowledge of MATLAB required. 
Instructor: Brooks

CHEM 383(S)  ADVANCED MODULE IN INSTRUMENTAL ANALYSIS A (0-8-1)
Study of the principles of modern instrumental methods and their application to inorganic and physical chemistry. Offered in first half of semester. Prerequisite: CHEM 311. Corequisite: CHEM 312. 
Instructor: Colvin

CHEM 384(S)  ADVANCED MODULE IN INSTRUMENTAL ANALYSIS B (0-8-1)
Study of the principles of modern instrumental methods and their application to inorganic and physical chemistry. Offered in second half of semester. Prerequisite: CHEM 311. Corequisite: CHEM 312. 
Instructor: Staff

CHEM 385(S)  ADVANCED MODULE IN POLYMER CHEMISTRY (0-8-1)
Synthesis, characterization, and measurement of the physical properties of conducting polymers. Offered in second-half of semester. Prerequisite: CHEM 311. Corequisite: CHEM 312. 
Instructor: Staff

CHEM 401(F)  ADVANCED ORGANIC CHEMISTRY (3-0-3)
Study of pericyclic reactions (Woodward-Hoffman rules), reactive intermediates, rearrangements, and stereochemistry. Includes the chemistry of carbohydrates, amino acids, peptides, and nucleic acids, as well as important reactions of organic chemistry and their mechanisms. 
Instructors: Behar

CHEM 411(S)  SPECTRAL METHODS IN ORGANIC CHEMISTRY (3-0-3)
Elucidation of organic structures, using spectroscopic techniques. Interpretation of infrared, ultraviolet, proton and carbon nuclear magnetic resonance, and mass spectra. Prerequisite: CHEM 401. 
Instructor: Engel

CHEM 413(F)  NUCLEAR MAGNETIC RESONANCE IN CHEMISTRY (3-0-3)
This course is designed to bring the practicing scientist to a level of competence in nuclear magnetic resonance (NMR) which will facilitate reading the current literature, understanding the multi-dimensional NMR techniques and will lead to the selection of experiments appropriate to the class participants’ research projects. The course will be presented in three integrated components. These are: (1) the mathematical and physical basis of NMR, (2) the experimental aspects and (3) the interpretation of high resolution spectra. Prerequisite: CHEM 212. 
Instructor: Willcott

CHEM 415(F)  CHEMICAL KINETICS AND DYNAMICS (3-0-3)
Description and analysis of the rates of unimolecular, bimolecular, and composite chemical reactions in gas and solution phases. Includes both macroscopic kinetics and microscopic reaction dynamics. Prerequisites: CHEM 311–312. 
Instructor: Brooks

CHEM 430(F)  QUANTUM CHEMISTRY (3-0-3)
Study of quantum mechanical principles, atomic structure, and chemical bonding. PHYS 202 recommended. Prerequisite: CHEM 311. 
Instructor: Weisman

CHEM 435  ADVANCED MODULE IN COMPUTATIONAL CHEMISTRY (0-4-1)
Methods of chemical computation will be examined with projects to explore the application of those techniques in solving questions in chemical structure, bonding and reactivity. Enrollment limited to 10. 
Instructor: Scuseria
CHEM 440(F)  ENZYME MECHANISMS (3-0-3)
A survey of organic reactions catalyzed by enzymes, with emphasis on arrow-pushing mechanisms. Both enzymes that use cofactors and those that do not will be covered. Instructor: Matsuda

CHEM 445(F)  PHYSICAL ORGANIC CHEMISTRY (3-0-3)
Study of organic reaction mechanisms. Includes kinetics, isotope effects, thermochemical group activity, substituent and medium effects, linear free energy relations, and acidity functions. Pre-requisites: CHEM 311-312. Corequisite: CHEM 401. Instructor: Singleton

CHEM 491  RESEARCH FOR UNDERGRADUATES (hours variable)
Independent research. Includes written report. Open to chemistry majors only. Instructor: Staff

CHEM 495(F)  TRANSITION METAL CHEMISTRY (3-0-3)
Study of structure, bonding, and the reactivity of coordination, compounds and organometallic compounds. Includes ligand field theory, electronic spectroscopy, magnetism, reaction mechanisms, and catalysis. CHEM 360 recommended. Prerequisites: CHEM 360 or permission of the instructor. Instructors: Barron, Wilson

CHEM 515(F)  CHEMICAL KINETICS AND DYNAMICS (3-0-3)
Graduate version of CHEM 415.

CHEM 520(S)  CLASSICAL AND STATISTICAL THERMODYNAMICS (3-0-3)
Review of classical thermodynamics followed by an introduction to the statistical thermodynamics, with emphasis on chemical applications. Prerequisites: CHEM 311-312 (or equivalent). Instructor: Hutchinson

CHEM 530(F)  QUANTUM MECHANICS I (3-0-3)
Graduate version of CHEM 430.

CHEM 531(S)  QUANTUM MECHANICS II (3-0-3)
Development of the elements and techniques of quantum mechanics with applications to atomic and molecular systems. Prerequisite: CHEM 430 or 530. Instructor: Scuseria

CHEM 543(S)  SECONDARY METABOLISM (3-0-3)
This course is a survey of the current state of knowledge concerning the biosynthesis of the major classes of natural products. Topics covered include the use of radioactive and stable isotopes, molecular biology, and enzymology to elucidate biosynthetic pathways. Some discussion of NMR methods and of the synthesis of isotopically labeled compounds is included. Instructor: Parry

CHEM 544(S)  POLYMER CHEMISTRY (3-0-3)
An in-depth introduction to the synthesis, characterization, and physical properties of polymers. Instructor: Tour

CHEM 561(S)  ADVANCED ORGANIC CHEMISTRY (3-0-3)
Study of the disconnection approach to organic synthesis, with emphasis on reactions, reagents, and mechanisms. Co-/Prerequisite: CHEM 401. Instructor: Staff

CHEM 562(S)  ADVANCED ORGANIC CHEMISTRY (3-0-3)
Continuation of CHEM 561, with emphasis on very recent advances in stereoselective synthesis. Instructor: Behar

(F) = fall; (S) = spring
CHEM 575(S) PHYSICAL METHODS—INORGANIC CHEMISTRY (3-0-3)
Survey of research techniques used in modern inorganic chemistry. Includes x-ray diffraction, matrix isolation, mass spectrometry, magnetism, electrochemistry, various spectrosopies (e.g., IR, Raman, UV-Vis, NMR, EPR, XPR, EXAFS, and Mössbauer), and microscopies (AFM, SEM, TEM). Open to undergraduates by special permission only. Not offered every year. Instructor: Barron

CHEM 595 SPECIAL TOPICS IN INORGANIC CHEMISTRY
Not offered every year. Instructor: Staff

CHEM 600 INORGANIC SEMINAR (1-0-1)
Seminar on topics in current research and literature. Instructors: Barron, Whitmire, Wilson

CHEM 601 PHYSICAL SEMINAR (1-0-1)
Selected topics in current research and literature. This course is for graduate students; undergraduate students must obtain consent of instructor. Instructor: Glass

CHEM 602 ORGANIC SEMINAR (1-0-1)
Selected topics in current research and literature. This course is for graduate students; undergraduate students must obtain consent of instructor. Instructors: Behar, Singleton

CHEM 606 EFFECTIVE PRESENTATIONS FOR CHEMISTS (1-0-1)
Students learn to plan effective technical seminars with applications to chemical conferences such as the national and regional meetings of the American Chemical Society, as well as job interview presentations. Open to undergraduates by special permission only. Instructors: Barron, Matsuda

CHEM 611(F) HIGH-TEMPERATURE AND HIGH-PRESSURE CHEMISTRY (3-0-3)
Instruction in techniques for the generation and measurement of high temperatures and high pressure; the nature of chemical phenomena under extreme conditions and the synthesis of new materials. Instructor: Margrave

CHEM 630(F) MOLECULAR SPECTROSCOPY AND GROUP THEORY (3-0-3)
Study of experimental and theoretical principles of the spectroscopy of simple molecules. Includes microwave, infrared, visible, ultraviolet, and Raman spectra, with an introduction to molecular symmetry and group theory. Prerequisite: CHEM 531. Instructor: Curl

CHEM 700 TEACHING PRACTICUM (0-0-2)
Open to graduate students in chemistry and only in exceptional circumstances to undergraduates.

CHEM 750(F) TECHNOLOGY MANAGEMENT FOR SCIENTISTS AND ENGINEERS (3-0-3)
This course is intended for graduate students in science and engineering who are interested in gaining an understanding of the business of technology. Particular emphasis is placed on financial and human resources management, business strategy, patents, trademarks, and licenses, as well as new business start-up and development. Also offered as MSCI 750, MGMT 750. Instructor: Barron

CHEM 751(S) TECHNOLOGY MANAGEMENT FOR SCIENTISTS AND ENGINEERS (3-0-3)
Continuation of CHEM 750. Also offered as MSCI 751 and MGMT 751. Instructor: Barron

CHEM 800 GRADUATE RESEARCH (hours variable)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
The School of Humanities/Center for the Study of Languages

*Nonaccelerated courses are for students with no previous background in Chinese. Accelerated courses are for students with some knowledge of Chinese.

CHIN 101(F)  INTRODUCTION TO CHINESE LANGUAGE AND CULTURE I (Nonaccelerated) (3-2-5)
For students with no background in Chinese. Introduction to the Pinyin writing system and emphasis on the fundamental vocabulary and structure of Chinese required for basic conversation. Introduction to the Chinese writing, but not emphasized until the second semester. Introduction through the language to elements of Chinese culture. Weekly attendance at the language laboratory and participation in a weekly tutorial are required to receive full credit. *Instructor: McArthur*

CHIN 102(S)  INTRODUCTION TO CHINESE LANGUAGE AND CULTURE II (Nonaccelerated) (3-2-5)
Continuation of CHIN 101. More attention will be paid to the Chinese writing system (Chinese characters), while conversation skills still receive priority. Weekly attendance at the language laboratory and participation in a weekly tutorial required to receive full credit. Prerequisite: CHIN 101 or permission of instructor. *Instructor: McArthur*

CHIN 201(F)  INTRODUCTION TO CHINESE LANGUAGE AND CULTURE III (Nonaccelerated) (3-2-5)
Continuation of CHIN 201. Increasing emphasis on cultivating reading and writing skills in Chinese. Class conducted primarily in Chinese. Weekly attendance at the language laboratory and participation in a weekly tutorial required to receive full credit. Prerequisite: CHIN 201 or permission of instructor. Students must complete CHIN 202 to receive distribution credit for CHIN 201. *Instructor: Shen*

CHIN 202(S)  INTRODUCTION TO CHINESE LANGUAGE AND CULTURE IV (Nonaccelerated) (3-2-5)
Continuation of CHIN 202. At the completion of this course, students should be able to converse at an intermediate level and will be able to approach native language materials with the aid of Chinese language dictionaries. Class conducted primarily in Chinese. Weekly attendance at the language laboratory and participation in a weekly tutorial required to receive full credit. Prerequisite: CHIN 201 or permission of instructor. *Instructor: Shen*

CHIN 211(F)  ACCELERATED CHINESE LANGUAGE AND CULTURE I (3-1-4)
First in the sequence of accelerated Chinese, for students with some background in spoken standard Chinese and little to no background in reading and/or writing characters. Emphasis on oral skills and writing. Students will learn to write 200 characters and read 400 supplementary reading materials, such as restaurant menus and lyrics of popular songs. *Instructor: Shen*

CHIN 212(S)  ACCELERATED CHINESE LANGUAGE AND CULTURE II (3-1-4)
Continuation of CHIN 211. Emphasis on reading and writing. Prerequisite: CHIN 211 or ability to write 200 Chinese characters. *Instructor: Shen*

CHIN 299(F)  WOMEN IN CHINESE LITERATURE (3-0-3)
A historical and critical survey of women’s roles in classical Chinese literature (poetry, prose, fiction, and drama) as writers, reader critics, and protagonists. Topics will include China’s patriarchal tradition and women’s response, enculturing the female body and feminizing male poetics, poems by women and poems in women’s voice, women as domestic aliens and aliens portrayed as women, interplay of popular culture and elite culture, etc. All readings in English translation. No previous knowledge of Chinese language or literature required. Also offered as ASIA 299. Not offered 2001–2002. *Instructor: Qian*
CHIN 301(F)  INTERMEDIATE CHINESE LANGUAGE AND CULTURE I (Nonaccelerated) (3-1-4)
Continuation of CHIN 202. Students will continue to make oral presentations in class in addition to gaining further reading practice. At the end of the course, students should have familiarity with about 600 Chinese characters and the use of Chinese dictionaries and should be able to write short compositions using Chinese characters. Instructor: Yeh

CHIN 302(S)  INTERMEDIATE CHINESE LANGUAGE AND CULTURE II (Nonaccelerated) (3-1-4)
Continuation of CHIN 301. By the end of CHIN 302, students should be able to study Chinese on an independent basis, as more native language materials will be used in this course. Students will have reading knowledge of approximately 800 Chinese characters. Instructor: Shen

CHIN 311(F)  INTERMEDIATE ACCELERATED CHINESE LANGUAGE AND CULTURE I (3-1-4)
Emphasis on reading and writing skills. Supplementary reading materials such as advertisements and lyrics to songs and proverbs are included. Assignments include writing of skits to perform in class. Prerequisite: CHIN 204 or ability to write 400 Chinese characters. Instructor: Chen

CHIN 312(S)  INTERMEDIATE ACCELERATED CHINESE LANGUAGE AND CULTURE II (3-1-4)
Continuation of CHIN 311. Emphasis on speaking, reading, and writing. Develop skills to discuss and make comparisons. Supplementary reading materials include folklore and comic strips in newspapers. Prerequisite: CHIN 311 or ability to write 600 Chinese characters. Instructor: Chen

CHIN 330  INTRODUCTION TO TRADITIONAL CHINESE POETRY (3-0-3)
Survey of traditional Chinese poetry and poetics, with emphasis on literary texts and theoretical essays. Includes “words and meanings”; the formation of poetic genres; the rhetorical function of figurative language, allegory, poetic allusions, and intertextuality; and poems both by women and in women’s voices. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as ASIA 330 and HUMA 330. Not offered 2001–2002. Instructor: Qian

CHIN 332  CHINESE FILMS AND MODERN CHINESE LITERATURE (3-0-3)
Exploration of modern Chinese literature through the visual imagery of Chinese films. Includes an analysis using literary history and narrative structure to link film adaptations to their original texts in Chinese fiction, with emphasis on narratology and movie theory. Films, subtitled in English, shown outside of class. All readings in English translation. No previous knowledge of Chinese language or literature required. Also offered as ASIA 332 and HUMA 332. Instructor: McArthur

CHIN 334  INTRODUCTION TO TRADITIONAL CHINESE NARRATIVE (3-0-3)
Introduction to the basic features of traditional Chinese narrative. Includes historical records, biographies, novels, and short stories, with emphasis on analysis of narrative structure and characterization, using Western as well as Chinese literary theories. All readings in English translation. No previous knowledge of Chinese language or literature required. Instructor: Qian

CHIN 335  INTRODUCTION TO CLASSICAL CHINESE LITERATURE: NOVELS (3-0-3)
Examination of the basic characteristics of classical Chinese novels, primarily through six important works from the 16th to 18th centuries: Water Margin, Monkey, Golden Lotus, Scholars, Romance of the Three Kingdoms, and Dream of the Red Chamber. Includes discussion of issues in comparative narratology and their application to the Chinese case. All readings in English translation. No previous knowledge of Chinese literature or language required. Also offered as ASIA 335. Instructor: Qian

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
CHIN 346(S)  HISTORY OF THE CHINESE LANGUAGE  (3-0-3)
This course investigates major developments in the history of Chinese, emphasizing structural changes from Archaic to Modern Chinese. We will examine patterns of thought and cultural perceptions as reflected in vocabulary change. Introduction to sound changes in Chinese and the evolution of the writing system. Students are required to have basic knowledge of Chinese or have taken an introductory linguistics course. Instructors: Chen, Lilly

CHIN 411(F)  ADVANCED CHINESE LANGUAGE AND CULTURE I  (3-0-3)
Read native Chinese language materials and develop oral skills to express opinions, make comments, and critique social issues. Homework includes writing skits to perform in class. Prerequisite: CHIN 312 or ability to write 750 characters. Instructor: Chen

CHIN 412(S)  ADVANCED CHINESE LANGUAGE AND CULTURE II  (3-0-3)
Continuation of CHIN 411. Homework includes writing collaborative scripts to perform in class. Prerequisite: CHIN 412 or ability to write 1000 characters. Instructor: Chen

CHIN 431(F)  READINGS IN CLASSICAL CHINESE
CHIN 432(S)  LITERATURE  (3-0-3)
Offered to students with advanced Chinese reading and writing skills. Not offered every semester. Prerequisite: CHIN 412 (or equivalent) or permission of instructor. Instructor: Qian

Civil Engineering (CIVI)

The George R. Brown School of Engineering/
Department of Civil and Environmental Engineering

CIVI 201(S)  CIVIL ENGINEERS AND THE WORLD WE BUILD  (3-0-3)
An overview of how civil engineering projects (bridges, skyscrapers, highways, transit systems, etc.) are conceived, financed, designed, and built. Will include case studies, lectures, labs, and field trips. No previous engineering or mathematics background required. Designed for engineering freshmen and interested nonmajors. Instructor: Spieler

CIVI 211  ENGINEERING MECHANICS  (3-0-3)
Study of the equilibrium of static systems, the dynamics of a particle and particle systems, and rigid-body dynamics. Includes elements of vibrational analysis. Required for B.S.C.E. Prerequisites: PHYS 101 and MATH 101 and 102. Also offered as MECH 211. Instructor: Staff

CIVI 251(F)  PLANE SURVEYING  (1-3-2)
Overview of fundamental surveying principles and techniques. Required for B.S.C.E. (not required for environmental engineering option). Instructor: Hanks

CIVI 300(S)  MECHANICS OF SOLIDS I  (3-0-3)
Analysis of stress and deformation of solids with applications to beams, circular shafts, and columns. Study of engineering properties of materials. Applying equilibrium, compatibility, and force-deformation relationships to structural elements. Required for B.S.C.E. Prerequisite: CIVI 211. Instructor: Nagarajaiah

CIVI 302(S)  STRENGTH OF MATERIALS LABORATORY  (0-3-1)
Instruction in standard tension, compression, and torsion tests of ferrous and nonferrous metals. Includes experimental techniques and the behavior of structural elements. Limited enrollment. Preference given to civil engineering majors. Required for B.S.C.E. Instructor: Nagarajaiah

CIVI 304(S)  STRUCTURAL ANALYSIS I  (3-0-3)
Analysis of statically determinate structures, including trusses, beams, and frames; stability and determinacy; influence lines for moving loads; the calculation of deflections; and an introduction to the analysis of indeterminate structural members. Required for B.S.C.E. Prerequisite: CIVI 211. Corequisite: CIVI 300. Instructor: Veletsos

(F) = fall; (S) = spring
CIVI 305(F) STRUCTURAL ANALYSIS II (3-0-3)

CIVI 306(S) STEEL DESIGN (3-0-3)
Design of steel members, connections, and assemblies. Includes the behavior of steel members in relation to design. Required for B.S.C.E. Prerequisite: CIVI 304. Instructor: Terk

CIVI 322(F) ENGINEERING ECONOMICS AND MANAGEMENT (3-0-3)
Introduction to the evaluation of alternative investment opportunities with emphasis on engineering projects and capital infrastructure. Time value of money concepts are developed in the context of detailed project evaluation and presentations. In addition, concepts and applications of risk analysis and investment under uncertainty are developed. Also offered as ENGI 303. Instructors: Murtha, Segner

CIVI 363(F) APPLIED FLUID MECHANICS (3-0-3)
Study of fluid properties, fluid statics, and incompressible fluid steady flow. Includes energy and momentum equations with many applications, similitude and dimensional analysis, and viscous fluid flow in pipes and pipe networks. Required for B.S.C.E. Instructor: Liapis

CIVI 400(F) MECHANICS OF SOLIDS II (3-0-3)
Analysis of stress and strain in two and three dimensions. Stress-strain relations for elastic, elastic/plastic, and viscoelastic materials. Material failure criteria. Analysis of bending and torsion of cylinders, plane problems, large deflections of beams, curved beams, beams on elastic foundations, and plates. Solutions by analytical, numerical, and energy methods, including an introduction to the finite element method. Does not count toward graduate degree requirements in civil engineering. Prerequisites: CIVI 300, CAAM 335 (recommended). Instructor: Merwin

CIVI 403(S) REINFORCED CONCRETE DESIGN (3-0-3)
Study of the material properties and flexural strength of rectangular and T-sections and the strength design of beams, one-way slabs, and footings. Includes shear strength, deflections, and column design, as well as the use of handbooks and computer programs for design. Required for B.S.C.E. Prerequisite: CIVI 304. Instructor: Durrani

CIVI 404(S) CONCRETE LABORATORY (0-3-1)
Instruction in tests of materials and reinforced concrete members. Required for B.S.C.E. Corequisite: CIVI 403. Instructor: Durrani

CIVI 451(S) INTRODUCTION TO TRANSPORTATION (3-0-3)
Survey of the operational characteristics of transport modes, the elements of transportation planning, and the design of stationary elements. Required for B.S.C.E. (not required for environmental engineering option). Instructor: Sedlak

CIVI 470(F) BASIC SOIL MECHANICS (3-3-4)
Introduction to geotechnical engineering, nature and properties of soil, behavior of soil, water flow through soil, consolidation and settlements, strength and stress-strain characteristics, lateral earth pressures, retaining walls, and shallow foundations. Required for B.S.C.E. Instructor: Dakoulas

CIVI 479(F) INTRODUCTION TO PROJECT DEVELOPMENT
Introduces students to the design issues and practices in civil engineering. Includes methods, references, and computer tools used in engineering design practice. Emphasis on topics that influence the design of civil engineering facilities, including existing built environment, natural environment, economic and social factors, and long expected life-span. A large design case is introduced which is used in the capstone design course. Instructor: Terk

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
CIVI 480(S)  SENIOR DESIGN PROJECT (0-6-3)
Synthesis and application of engineering knowledge of the design of a real-life project.
Instructor: Staff

CIVI 499  SPECIAL PROBLEMS (hours variable)
Study of selected topics. Includes individual investigations, special lectures, and seminars. Offered upon mutual agreement of faculty and student.

CIVI 500(S)  ADVANCED MECHANICS OF SOLIDS I (3-0-3)
General analysis of stress and infinitesimal strain, as well as linear and nonlinear elastic and thermo-elastic stress-strain relations. Includes the formulation and solution of boundary value problems (e.g., the torsion and flexure of cylinders, plane problems, the flexure of plates, and selected three-dimensional problems) with approximate solutions by energy methods and the finite element method. Prerequisite: CIVI 400 or equivalent. Instructor: Staff

CIVI 501(F)  ADVANCED MECHANICS OF SOLIDS II (3-0-3)
Analysis of the nonlinear behavior of elastic and inelastic solids with applications to engineering materials. Prerequisite: CIVI 500. Instructor: Staff

CIVI 509(S)  DYNAMIC ANALYSIS OF OFFSHORE STRUCTURES (3-0-3)
Description of loads on offshore structures on both a deterministic and probabilistic basis. Includes methods for calculating structural response, using examples of drill strings, marine risers, and fixed and compliant structures. Also offered as MECH 509. Not offered every year. Instructor: Spanos

CIVI 512(F)  ENGINEERING APPLICATIONS OF PROBABILITY (3-0-3)
Applications of probability theory and statistics in the planning, analysis, and design of civil engineering systems. Includes the probabilistic modeling of random phenomena, occurrence models and extreme value distributions, statistical inference methods, the modeling and analysis of uncertainties in engineering, and an introduction to Bayesian statistical decision theory. Prerequisite: CAAM 381 or STAT 310. Instructor: Staff

CIVI 513(F)  THEORY OF ELASTICITY (3-0-3)
Discussion of advanced topics in the linear and nonlinear theory of elasticity. Also offered as MECH 513. Instructor: Staff

CIVI 515(S)  STRUCTURAL PLASTICITY, FATIGUE, AND FRACTURE (3-0-3)
Investigation of problems in limit analysis and design, the plastic behavior of structures, the flexure and torsion of prismatic members, fatigue failure, and the brittle fracture of structural components. Also offered as MECH 515. Not offered 2001–2002. Instructor: Staff

CIVI 516(F)  PLATES AND SHELLS (3-0-3)
Introduction to the theories of plates and cylindrical shells with applications to practical problems. Instructor: Veletsos

CIVI 517(F)  FINITE ELEMENT ANALYSIS (3-0-3)
An introduction to finite element analysis by Galerkin’s method and the method of least squares as applied to both ordinary and partial differential equations common in engineering applications. Element interpolations, numerical integration, computational considerations for efficient solution and post-processing methods. Application of educational and commercial codes to heat transfer and stress analysis. Also offered at MECH 417. Instructor: Staff

CIVI 519(S)  THEORY OF SHELLS (3-0-3)
Development of the general nonlinear theory of elastic shells by the direct, two-dimensional approach. Specialization to membrane shells, cylindrical shells, shells of revolution, and shallow shells. Solutions for various shell problems with engineering applications. Instructor: Staff
CIVI 521(F)  STRUCTURAL DYNAMICS I  (3-0-3)
Study of the dynamics of force-excited discrete linear systems with applications to design. Open
to undergraduates with permission of instructor only. **Instructor:** Veletsos

CIVI 522(S)  STRUCTURAL DYNAMICS II  (3-0-3)
Study of the dynamics of force-excited continuous linear systems and ground-excited linear and
yielding structures. Includes the fundamentals of earthquake engineering. Prerequisite: CIVI 521.
**Instructor:** Veletsos

CIVI 523(S)  PROBABILISTIC STRUCTURAL DYNAMICS  (3-0-3)
Introduction to probability theory and random processes. Includes the dynamic analysis of linear
and nonlinear structural systems subjected to stationary and nonstationary random excitations,
reliability studies related to first excursion and fatigue failures, and applications to earthquake
engineering, offshore engineering, and wind engineering. Prerequisites: CIVI 521 or MECH 412
and basic knowledge of probability theory. Also offered as MECH 523. **Instructor:** Staff

CIVI 524(F)  STRUCTURAL RELIABILITY THEORY AND
APPLICATIONS  (3-0-3)
Study of probability theory and random processes, as well as the fundamentals of structural reli-
ability theory. Includes methods of reliability analysis, structural component and system reliability,
reliability-based design codes, structural load modeling and combination for performance and safety
evaluation, and the seismic risk analysis of structural systems. Prerequisite: basic knowledge of
probability theory. **Instructor:** Staff

CIVI 525(F)  STRUCTURAL DYNAMICS III  (3-0-3)
Study of special topics in structural dynamics. Includes problems of wave propagation, the re-

dose of structures to waves, the dynamics of foundations, and soil-structure and fluid-structure
interaction. Not offered 2001–2002. Prerequisite: CIVI 521. **Instructor:** Veletsos

CIVI 526(F)  STRUCTURAL STABILITY  (3-0-3)
Examination of stability criteria. Includes the flexural and torsional buckling of columns and frames,
the lateral buckling of beams, plate buckling, the effect of imperfections on strength, beam columns,
and the evaluation of design code provisions. Not offered 2001–2002. **Instructor:** Staff

CIVI 527(F)  COMPUTATIONAL METHODS IN
STRUCTURAL MECHANICS  (3-0-3)
Introduction to differential and integral formulations, variational principles, weighted residuals
and principle of virtual work. Simple boundary, initial, and eigenvalue problems. Finite element
and boundary element method and finite difference methods for structural mechanics. Study of
nonlinearities. Computational methods for geometric and material nonlinear analysis. Applications
to static and dynamic problems. Programming and use of computer software. Also offered
as MECH 527(F). Prerequisite: permission of instructor. **Instructor:** Nagarajaiah

CIVI 530(F)  CONCRETE BUILDING DESIGN  (3-0-3)
Design of reinforced concrete building structures and floor slab systems. Includes discussion of
case histories. Prerequisite: CIVI 403. **Instructor:** Haque

CIVI 531(F)  BEHAVIOR OF REINFORCED CONCRETE
MEMBERS  (3-0-3)
Study of the moment-curvature relationship for beams and columns, biaxially loaded columns,
slenderness effects, interaction diagrams, shear and torsion in members, shear wall-frame interaction,
and behavior under large load reversals. Includes extensive use of microcomputers. Prerequisite:
CIVI 403. **Instructor:** Durrani

CIVI 532(S)  PRESTRESSED CONCRETE  (3-0-3)
Study of prestressing techniques, prestress losses, deflections, shear and torsion, and the analysis
and design of members using microcomputers. Includes composite members, continuous beams,
and prestressed slabs. Prerequisite: CIVI 403. Not offered 2001–2002. **Instructor:** Durrani

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
CIVI 540(S)  STEEL BUILDING DESIGN (3-0-3)
Exploration of practical design from conceptual stage to final analysis. Includes design parameters and serviceability limitations. Prerequisites: CIVI 305, 306, and 403. Instructor: Sheikh

CIVI 550(S)  PROGRAMMING CONCEPTS IN COMPUTER-AIDED ENGINEERING (3-0-3)
Provides an introduction to fundamental issues in computer-aided engineering (CAE); control of the complexity of developing large-scale CAE software; decompositions and abstraction strategies used to produce modular programs; data structures and associated algorithms used to build CAE systems; engineering information management and computer graphics. Instructor: Terk

CIVI 555(S)  INTERNET-ENABLED ENGINEERING (1-0-1)
Introduction to the Internet and the Internet’s impact on engineering activities. This course will concentrate on issues involved in creating World Wide Web sites that support engineering activities of a single designer or a design team. Instructor: Terk

CIVI 570(S)  FOUNDATION ENGINEERING (3-0-3)
Soil exploration, bearing capacity, and settlements of foundations; soil improvement; geotechnical analysis and design of spread and special footings; beam foundations, mats, soil-structure interaction, floating foundations, piles, pile groups, pier and caissons, earth pressures, gravity and sheet-pile walls; braced and tie-back excavations. Prerequisite: CIVI 470. Instructor: Dakoulas

CIVI 571(S)  SOIL DYNAMICS (3-0-3)
Introduction to vibrations, wave propagation in elastic media, in situ soil properties, the behavior of soil subjected to dynamic and cyclic loading, and engineering applications, including ground motion amplification by the soil, liquefaction of sands, seismic response of dams and retaining structures, and vibrations of machine foundations. Prerequisite: CIVI 521. Instructor: Dakoulas

CIVI 610(S)  STRUCTURAL DYNAMIC SYSTEMS AND CONTROL (3-0-3)
Elements of linear systems and control theory, transform methods, state space methods, feedback control, and Lyapunov’s method. Analytical modeling of structures, control algorithms, and response to dynamic loading. Base isolation, smart materials and devices, sensors, structural control applications, monitoring, and case studies. Also offered at MECH 610(S). Prerequisites: CIVI 521 or MECH 502, CIVI 527. Instructor: Nagarajaiah

CIVI 678(F)  ADVANCED STOCHASTIC MECHANICS (3-0-3)
Presentation of nonlinear random vibrations, statistical linearization, ARMA filters modeling, Monte Carlo simulation, Wiener-Volterra series, time-variant structural reliability, and stochastic finite elements, with emphasis on their usefulness to aerospace, civil, marine, and mechanical applications. Also offered as MECH 678. Not offered 2001–2002. Instructor: Spanos

CIVI 679(F)  APPLIED MONTE CARLO ANALYSIS (3-0-3)
Probability density and power spectrum based simulation concepts and procedures are discussed. Scalar and vectorial simulations are addressed. Spectral decomposition and digital filter algorithms are presented. Applications from aerospace, earthquake, marine and wind engineering, and from other applied science disciplines, are included. Also offered as MECH 679. Instructor: Spanos

CIVI 699  SPECIAL PROBLEMS (hours variable)
Study of selected topics. Includes individual investigations under the direction of a member of the civil engineering faculty. Offered upon mutual agreement of faculty and student.

CIVI 800  RESEARCH AND THESIS (hours variable)
# Classical Studies (CLAS)

**The School of Humanities/Department of Hispanic and Classical Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 207(S)</td>
<td>GREEK CIVILIZATION: FROM HOMER TO ALEXANDER THE GREAT (3-0-3)</td>
<td></td>
<td>George</td>
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<tr>
<td>CLAS 208(S)</td>
<td>ROMAN CIVILIZATION (3-0-3)</td>
<td></td>
<td>McGill</td>
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<tr>
<td>CLAS 222(F)</td>
<td>PERSPECTIVES ON GREEK TRAGEDY (3-0-3)</td>
<td></td>
<td>Yunis</td>
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<tr>
<td>CLAS 225(F)</td>
<td>WOMEN IN GREECE AND ROME (3-0-3)</td>
<td></td>
<td>Wallace</td>
</tr>
<tr>
<td>CLAS 315(S)</td>
<td>SOCRATES: THE MAN AND HIS PHILOSOPHY (3-0-3)</td>
<td></td>
<td>Yunis</td>
</tr>
<tr>
<td>CLAS 316(S)</td>
<td>DEMOCRACY AND POLITICAL THEORY IN ANCIENT GREECE (3-0-3)</td>
<td></td>
<td>Yunis</td>
</tr>
<tr>
<td>CLAS 335(S)</td>
<td>MYTH AND STORYTELLING: ANCIENT, MEDIEVAL, AND MODERN TRADITIONS (3-0-3)</td>
<td></td>
<td>Mackie</td>
</tr>
</tbody>
</table>

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
**CLAS 351(S)  EPIC AND SAGA (3-0-3)**
Comparative analysis of epic narrative and epic themes in ancient and medieval literature. All works in English translation. Not offered 2001–2002. **Instructor: Mackie**

**CLAS 352(S)  PERICLEAN ATHENS (3-0-3)**
Close examination of what was unique about Athens during the age of Pericles. Includes the Athenian empire and democracy, the crisis of the Peloponnesian War, the influence of the Sophists, social crises as reflected in tragedy and comedy, and the life and trial of Socrates. Not offered 2001–2002. **Instructor: Yunis**

**CLAS 491(F)  SPECIAL TOPICS (3-0-3 each semester)**
Independent work. Open to qualified juniors and seniors.

**Computer Science (COMP)**

The George R. Brown School of Engineering

*Enrollment in courses at the 300 and 400 level may be restricted; enrollment in courses at the 500 level and above requires the permission of the instructor.*

**COMP 100(F)  INTRODUCTION TO COMPUTING AND INFORMATION SYSTEMS (3-0-3)**
Introduction to computer organization, operating systems, programming languages, artificial intelligence, and programming. Open to nonscience and nonengineering students. May not be taken for credit after any other programming course.

**COMP 110(F)  COMPUTATION IN SCIENCE AND ENGINEERING (3-0-3)**
The course introduces basic techniques for problem solving and visualization using computational environments such as Mathematica and Matlab. Class will consist of a mixture of traditional lectures held in classrooms and self-paced modules covering topics in science and engineering that will be completed in Symonds II. No previous programming experience is required or expected. Also offered as NSCI 230.

**COMP 200(F)  ELEMENTS OF COMPUTER SCIENCE (3-0-3)**
Broad introduction to major topics in computer science. Includes algorithms, mathematical models of computation, machine organization and design, programming languages, communication, and artificial intelligence. Open to nonscience and nonengineering students.

**COMP 210  INTRODUCTION TO PRINCIPLES OF SCIENTIFIC COMPUTATION (3-3-4)**
Introduction to the principles of computer programming. Includes functional programming, data abstraction, procedural abstraction, reduction rules, use of control and state, object-oriented programming, program optimization, algorithm efficiency. Students will learn the practical skills required to write and modify programs. Laboratory assignments use Scheme and Java. May not receive credit for COMP 211 after taking COMP 210. Required for computer science majors.

**COMP 211(F)  INTRODUCTION TO PROGRAMMING (3 to 6 hours credit)**
No longer offered. Remains as a course number for awarding transfer and advanced placement credit. Introduction to programming, including problem solving and algorithms, elementary data structures, procedures and functions, and debugging. May use either COMP 211 or 212, but not both, to satisfy university distribution requirements.

(F) = fall; (S) =
COMP 280(S)  MATHEMATICS OF COMPUTER SCIENCE (3-0-3)
Study of mathematical induction, recursive definitions and recurrence equations, finite state machines, computability, and logic. Required for computer science majors. Prerequisites: MATH 102 and COMP 210.

COMP 290  COMPUTER SCIENCE PROJECTS (1 to 4 hours credit)
Theoretical and experimental investigations under staff direction. Prerequisite: permission of department.

COMP 300(S)  SOCIETY IN THE INFORMATION AGE (3-0-3)
Review of the remarkable technology of the Information Age and examination of its profound impact on people, organizations, institutions, and culture. Speculation on ways in which society might be further transformed by the continuing development of information technology.

COMP 311(F)  PROGRAMMING LANGUAGES (3-3-4)
Study of the design, definition, and abstract implementation of programming languages. Includes methods for precisely specifying syntax and semantics. Required for computer science majors; may substitute COMP 412. Prerequisite: COMP 210. Corequisite: COMP 280.

COMP 312(S)  PROGRAM CONSTRUCTION (3-3-4)
Introduction to the methods and tools of programs by teams, pattern-based design, modules, safe programming. Prerequisites: COMP 210, 212, and 311.

COMP 314(S)  APPLIED ALGORITHMS AND DATA STRUCTURES (3-3-4)
Design and analysis of computer algorithms and data structures useful for applied problems. Includes lab assignments using these techniques in conjunction with advanced programming methods. Required for computer science majors. Prerequisites: COMP 212 and 280. Also offered as ELEC 322.

COMP 320(F)  INTRODUCTION TO COMPUTER ORGANIZATION (3-3-4)
Microprocessor architecture, including memory hierarchy, pipelining, I/O devices, and interrupts and concurrency. Computer representation of and operations on basic data such as instructions, integers, floating point numbers, and pointers. Low-level programming in C and assembly language. Basic system software. Performance issues. Prerequisite: COMP 212. Also offered as ELEC 320.

COMP 360(F)  INTRODUCTION TO COMPUTER GRAPHICS (3-3-4)
Survey of two-dimensional graphics techniques (e.g., fast line and curve drawing and polygon filling) and three-dimensional graphics problems (e.g., the representation of solids, shading, and hidden surface elimination). Includes fractals and graphics standards. Prerequisite: COMP 212. Not offered every year.

COMP 361(S)  VISUAL METHODS FOR SCIENCE AND ENGINEERING (3-3-4)
Basic functional programming in mathematics, use of packages to solve science and engineering problems, visualization methods for solutions to these problems. Prerequisites: programming experience. Limited enrollment. Not offered every year.

COMP 390  COMPUTER SCIENCE PROJECTS (1 to 4 hours credit)
See COMP 290.

COMP 408(S)  APPLIED COMPUTER-AIDED VERIFICATION (3-0-3)
Techniques for specifying, modeling, and verifying hardware and software systems. Emphasis on tools, their applications, and their limitations. Not offered every year. Prerequisites: COMP 280, 314, and 320.
COMP 409(S) LOGIC IN COMPUTER SCIENCE (3-0-3)
A thorough introduction to mathematical logic. Covers in depth the topics of syntax, semantics, decision procedures, formal systems, and definability for both propositional and first-order logic, all from the perspective of computer science. The goal is to prepare students to use logic as a formal tool in computer science. Prerequisites: COMP 210 and 280.

COMP 410(F) SOFTWARE CONSTRUCTION METHODOLOGY (3-3-4)
Study of software design for effective implementation and maintenance, using techniques for program specification and correctness proofs. Includes case studies examining what works, what doesn’t, and why, as well as programming assignments involving maintenance exercises and team projects. Not offered every year. Prerequisites: COMP 210, 212, and 314.

COMP 411(S) ADVANCED PROGRAMMING LANGUAGES (3-0-3)
Study of the design, definition, and abstract implementation of programming languages. Includes methods for precisely specifying syntax and semantics. Not offered every year. Prerequisites: COMP 210, 280, 311, and 320.

COMP 412(F) COMPILER CONSTRUCTION (3-3-4)
Exploration of the design of programming language translators. Includes parsing, run-time storage management, error recovery, and code generation and optimization. Prerequisite: COMP 314.

COMP 413(F) DISTRIBUTED PROGRAM CONSTRUCTION (3-3-4)
Modern principles for the construction of distributed programs, with an emphasis on design patterns, modern programming tools, and distributed object systems. The material will be applied in a substantial software design/construction project. Not offered every year. Prerequisites: COMP 312, COMP 421, or permission of instructor.

COMP 421(S) OPERATING SYSTEMS AND CONCURRENT PROGRAMMING (3-3-4)
Introduction to the design, construction, and analysis of concurrent programs, with emphasis on operating systems. Includes filing systems, schedulers, and memory allocators, with specific attention to process synchronization and communication within concurrent programs. Required for computer science majors. Prerequisites: COMP 212 and 320. Also offered as ELEC 421.

COMP 422(F) PARALLEL COMPUTING (3-3-4)
Examination of the need for parallel computing, models for parallel computations, basic algorithms on PRAM machines, architectures of parallel computing, mapping and scheduling in parallel computers, and program design for parallel computations. Includes an extensive programming component. Not offered every year. Prerequisites: COMP 212 and 320.

COMP 425(F) COMPUTER SYSTEMS ARCHITECTURE (3-3-4)
Study of advanced uniprocessor system architecture and the basics of parallel architectures. Includes pipelining (e.g., dynamic scheduling and precise interrupt handling), techniques for exploiting instruction-level parallelism (e.g., superscalar and VLI architecture), case studies of recent high-performance microprocessors, vector processors, memory systems design (e.g., techniques to improve cache performance, virtual memory systems, and main memory enhancements), I/O systems such as disk arrays and graphical interfaces, and an overview of parallel computers. Prerequisites: ELEC 320/COMP 320 and ELEC 326. Also offered as ELEC 425. Instructor: Adve

COMP 429(S) INTRODUCTION TO COMPUTER NETWORKS (3-3-3)
Network architectures and basic protocols. Routing and flow control. Access methods, Transmission media, error management. Network performance. The course will cover several types of networks, including CSMA/CD, token ring, and ATM. Prerequisites: STAT 310 or ELEC 331/CAAM 381. Also offered as ELEC 429.

COMP 430(S) INTRODUCTION TO DATABASE SYSTEMS (3-3-4)
Survey of database system design and implementation. Includes physical data organization, relational databases, object-oriented databases, query languages, query optimization, transaction processing, concurrency control, and recovery. Prerequisites: COMP 212 and 314. Not offered every year.
COMP 437(S) MULTITIER WIRELESS NETWORKS (3-0-3)
Topics in multitier wireless networks. Lectures from a range of faculty from ECE and CS. Focused team projects. Appropriate for both undergraduate and graduate students of all levels. Prerequisites: consent of instructor. Also offered as COMP 630, ELEC 437, and ELEC 630.

COMP 440(S) ARTIFICIAL INTELLIGENCE (3-3-4)
Study of methods for designing and analyzing intelligent agents (e.g., embedded control systems that achieve specific performance objectives within limited resources), using mathematical tools from computer science, logic, probability theory, and economics, as well as relevant literature in neurobiology and psychology. Includes construction of, and experimentation with, software simulations of complex discrete control systems. Optional module involves hardware implementation of an insect robot. Prerequisite: COMP 210. Also offered as ELEC 440.

COMP 450(S) ALGORITHMIC ROBOTICS (3-3-4)
An introduction to computing object motion in application domains such as robotics, manufacturing, animated graphics, and drug design. Includes basic path planning, uncertainty, moving obstacles, and kinematic constraints. Prerequisites: COMP 212 and COMP 314.

COMP 460(S) ADVANCED COMPUTER GRAPHICS (3-3-4)
Advanced topics in computer graphics and geometric modeling, including B-spline curves and surfaces, solid modeling, radiosity, morphing, animation, simulation, subdivision, fractals, wavelets, and other selected topics, as time permits. Not offered every year. Prerequisite: COMP 360.

COMP 461(S) COMPUTER-AIDED GEOMETRIC DESIGN (3-0-3)
Examination of the fundamental representations and algorithms for curves and surfaces in computer-aided geometric and hermite interpolation. Includes Bezier and B-spline approximation, geometric continuity and Beta-splines, and recursive algorithms for evaluation, differentiation, subdivision, and knot insertion, as well as blossoming and polar forms and Descartes’s law of signs and the variation diminishing property. Not offered every year. Prerequisite: CAAM 353.

COMP 480(S) CONCRETE MATHEMATICS (3-0-3)
Study of discrete and combinatorial mathematics. Includes sums and products, integer functions, elementary number theory, factorials, binomial coefficients, harmonic numbers, Fibonacci numbers, generating functions, and asymptotic representations, with applications to advanced algorithm analysis. Prerequisite: COMP 314. Not offered every year.

COMP 481(S) AUTOMATA, FORMAL LANGUAGES, AND COMPUTABILITY (3-0-3)
Exploration of finite automata, regular expressions, regular languages, pushdown automata, context-free languages, Turing machines, recursive languages, computability, and solvability. Required for computer science majors. Prerequisite: COMP 314.

COMP 482(F) DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)
Study of methods for designing and analyzing computer algorithms and data structures, with emphasis on the theoretical and mathematical aspects of algorithms and data structures. Prerequisite: COMP 314.

COMP 485(F) FUNDAMENTALS OF MEDICAL IMAGING I (3-0-3)
The course will introduce the fundamentals of various medical imaging modalities (e.g., x-ray, CT, and MRI) used to identify the anatomy of human organs, as well as other modalities (e.g. PET, SPECT, fMRI, and MEG) specifically developed to identify the function of the brain. Prerequisites: Math 211 and Math 212. Also offered as BIOE 485, BIOE 685, and ELEC 485. Instructors: Anvari, Zouridakis

COMP 486(S) FUNDAMENTALS OF MEDICAL IMAGING II (3-0-3)
The objective of this course is to introduce the fundamentals of imaging brain function, as opposed to brain structure, using invasive and noninvasive imaging modalities. In addition, basic techniques for fusing multimodal images in a single three-dimensional representation are presented, along with some specific clinical applications. Prerequisites: COMP 485, BIOE 485, BIOE 685, or ELEC 485. Also offered as BIOE 486, BIOE 686, and ELEC 486. Instructor: Zouridakis
COMP 490  COMPUTER SCIENCE PROJECTS (1 to 9 hours credit)
See COMP 290.

COMP 491  COMPUTER SCIENCE TEACHING (3-0-3)
Combined in-service teaching and seminar. Prerequisite: permission of department.

COMP 511(S)  DENOTATIONAL SEMANTICS OF PROGRAMMING LANGUAGES (3-0-3)
Study of the operational and denotational semantics of programming languages. Not offered every year. Prerequisites: COMP 311, 411, and 481.

COMP 512(F)  ADVANCED COMPILER CONSTRUCTION (3-3-4)
Exploration of advanced topics in the design and implementation of programming language translators. Includes data flow analysis and optimization, code generation and register allocation, attribute grammars and their evaluation, translation within programming environments, and the implementation of advanced language features. Not offered every year. Prerequisite: COMP 412.

COMP 513(F)  IMPLEMENTATION OF PROGRAMMING LANGUAGES (3-3-4)
Study of automatic storage management, the representation of function closures and continuations, the implementation of logic programming, type checking in the presence of polymorphic typing and overloading, and compiler generation from formal semantics. Not offered every year.

COMP 514(F)  PROGRAMMING LOGICS (3-0-3)
Study of formal systems for specifying and verifying properties of programs. Includes first-order predicate logic, models of programming languages, and deductive systems for proving properties of programs. Not offered every year.

COMP 515(S)  ADVANCED COMPILATION FOR VECTOR AND PARALLEL PROCESSORS (3-0-3)
Instruction in advanced compilation techniques for vector and parallel computer systems. Includes the analysis of program dependence, program transformations to enhance parallelism, compiler management of the memory hierarchy, interprocedural data flow analysis, and parallel debugging.

COMP 519  TOPICS IN PROGRAMMING LANGUAGE (3-0-3)
Content varies from year to year.

COMP 520(F)  DISTRIBUTED SYSTEMS (3-3-4)
Study of distributed systems (e.g., workstations, local area networks, and server machines). Includes multiprocess structuring and interprocess communication, file access and memory management, user interfaces (e.g., window systems and command interpreters), and case studies of selected distributed systems, with emphasis on performance aspects of system software design. Prerequisites: COMP 421 and 425. Also offered as ELEC 520.

COMP 522(F)  REAL-TIME SYSTEMS (3-3-4)
Introduction to problems that may arise in real-time applications of digital computers; architecture of real-time systems; and methods for real-time software design and implementation. Prerequisite: COMP 421 or permission of instructor.

COMP 524(F)  MOBILE AND WIRELESS NETWORKING (3-0-3)
Study of network protocols for mobile and wireless networking, particularly at the media access control, network, and transport protocol layers. Focus is wireless transmission and host or router mobility. Prerequisites: COMP 429 or ELÉC 429. Also offered as ELEC 524.

(F) = fall; (S) = spring
COMP 525(S)  ADVANCED COMPUTER ARCHITECTURE (3-0-4)
Design of parallel architectures such as shared memory MIMD (multiple-instruction-multiple-data), message passing MIMD, and SIMD (single-instruction-multiple-data) architectures. Includes interconnection networks, techniques to reduce and tolerate communication latency (e.g., cache coherence protocols, memory consistency models, and multithreaded and data flow architectures), synchronization, and software involvement for improving performance, as well as case studies of parallel machines. Prerequisite: ELEC 425. Also offered as ELEC 525.

COMP 526(F)  COMPUTER NETWORKS—DESIGN AND ANALYSIS (3-0-3)
Design and comparison of computer networks. Includes transmission media, data enclosing, error control, and techniques for performance analysis, as well as connectivity and reliability, capacity assignment, and network topologies, with emphasis on local area networks (e.g., rings, buses, and contention networks). Prerequisite: ELEC 428. Also offered as ELEC 526.

COMP 527(S)  COMPUTER SYSTEMS SECURITY (3-3-4)
Computer security in real systems, covering theory and practice for the design of secure systems (formal modeling, hardware and compiler-enforced safety, software engineering processes, tamper-resistant and tamper-reactive hardware, firewalls, cryptography, and more) and how and why each of these techniques fail. Prerequisite: COMP 421.

COMP 540(F)  ADAPTIVE SYSTEMS (3-3-4)
Study of multidisciplinary methods of designing and analyzing adaptive systems. Includes discussion of recent research in the areas of planning, scheduling, and control as well as machine learning. Not offered every year. Prerequisite: COMP 440 or permission of instructor.

COMP 541(S)  KNOWLEDGE-BASED SYSTEMS (3-0-3)
Study of the uses of artificial intelligence to augment human capabilities. Includes decision support systems and expert systems, with emphasis on applications in complex organizational settings, as well as the conceptual and technical limitations of existing expert systems technology with possible remedies. Not offered every year. Prerequisite: COMP 440.

COMP 561(F)  GEOMETRIC MODELING (3-0-3)
Exploration of curves and surfaces (e.g., parametric form, implicit form, and conversion between forms), the representation of solids (e.g., wireframes, octtrees, boundary representations, and constructive solid geometry), and applications (e.g., graphics, motion planning, simulation, and finite element mesh generation). Not offered every year. Prerequisite: COMP 314.

COMP 563(F)  ALGORITHMIC ALGEBRAIC GEOMETRY (3-0-3)
Study of coordinate systems, commutative algebra, algebraic curves and surfaces, and relational maps. Not offered every year. Prerequisite: permission of instructor.

COMP 581  THEORY OF COMPUTATION (3-0-3)
Study of computational complexity, abstract complexity, NP- and PSPACE-completeness, polynomial hierarchy, cryptography, Kolgomorov complexity, parallel algorithms, and random algorithms. Not offered every year. Prerequisite: COMP 481.

COMP 582  ADVANCED ALGORITHMS (3-0-3)
Design and analysis of efficient computer algorithms and data structures. Includes lower bound techniques, seminumerical algorithms, and fast Fourier transforms. Not offered every year. Prerequisite: COMP 481.

COMP 583(S)  PARALLEL ALGORITHMS AND ARCHITECTURE (3-0-3)
Study of parallel architectures (e.g., arrays, trees, hypercubes, and shared memory), the structure and relation between architectures, and parallel time, work, and efficiency. Includes the design and analysis of parallel algorithms, VLSI complexity, area-time trade-offs, and area-efficient VLSI networks. Prerequisite: ELEC 322. Also offered as ELEC 519. Instructor: Varman
COMP 584(F)  COMPUTATIONAL GEOMETRY (3-0-3)
Study of point location, range searching, convex hulls, proximity algorithms, intersections, and the geometry of rectangles. Not offered every year.

COMP 589(F)  TOPICS IN THEORY OF COMPUTATION (3-0-3)

COMP 590  COMPUTER SCIENCE PROJECTS (1 to 9 hours credit)
See COMP 290.

COMP 600  GRADUATE SEMINAR (1-0-1)

COMP 601(F)  RESEARCH ETHICS SEMINAR (2-0-2)
This case-based course focuses on ethical issues commonly encountered in the preparation, conduct, and reporting of scientific research. Includes peer review, conducting research, authorship, research fraud, and conflicts of interest. (Bioethics issues are not covered in this course.) Emphasis is on interactive discussion. Not offered every year. Also offered as CAAM 601.

COMP 607(F)  AUTOMATED PROGRAM VERIFICATION (1-0-1)
Study of methods, tools, and theories for the computer-aided verification of concurrent systems. Includes verification and validation tools for hardware and software systems, verification and validation methods based on model checking and theorem proving, automata-based methods, and complexity and efficiency issues in automatic verification. Prerequisite: COMP 409. Instructor: Vardi

COMP 609  UNIVERSAL ALGEBRA (1-0-1)
Study of elements of universal algebra (e.g., isomorphic algebras, quotients, direct products, and varieties). Includes Boolean algebras (e.g., rings, filters, ideals, Stone duality, connection to model theory, and logic). Not offered every year. Prerequisites: MATH 463 and COMP 409.

COMP 610  GRADUATE SEMINAR IN PROGRAMMING LANGUAGES (1-0-1)
Discussion of programming language semantics in computer science.

COMP 612  GRADUATE SEMINAR IN COMPILER CONSTRUCTION (2-0-2)
Seminar on topics in the construction of programming language translators. Prerequisite: COMP 412. Not offered every year.

COMP 613  GRADUATE SEMINAR IN ADVANCED LANGUAGE IMPLEMENTATION (3-0-3)
Seminar on topics in advanced language implementation. Prerequisites: COMP 311 and 412.

COMP 615(F)  GRADUATE SEMINAR IN PARALLEL PROGRAMMING SYSTEMS (2-0-2)
Seminar on topics in parallel programming environments and compilers for parallel computers.

COMP 620  GRADUATE SEMINAR IN DISTRIBUTED COMPUTATION (1-0-1)
Content varies from year to year. Prerequisite: COMP 520.

COMP 625(S)  GRADUATE SEMINAR ON COMPUTER ARCHITECTURE (3-0-4)
Virtual memory and security structures, pipelines and vector processing, instruction set definitions, multithreading will be discussed. Both contemporary and “ancient” systems will be analyzed. Prerequisites: COMP 425 or ELEC 425.

(F) = fall; (S) = spring
COMP 630(S)  MULTITIER WIRELESS NETWORKS (3-0-3)
Topics in multitier wireless networks. Lectures from a range of faculty from ECE and CS. Focused team projects. Appropriate for both undergraduate and graduate students of all levels. Prerequisites: consent of instructor. Also offered as COMP 437, ELEC 437, and ELEC 630.

COMP 650(S)  GRADUATE SEMINAR ON PHYSICAL COMPUTING (1-0-1)
Algorithmic issues related to physical problems of all scales, from the molecular to the astrophysical.

COMP 661  GRADUATE SEMINAR IN GEOMETRIC COMPUTATION (1-0-1)

COMP 680  GRADUATE SEMINAR IN COMPUTABILITY THEORY (1-0-1)
Content varies from year to year. Prerequisites: COMP 581 and 582.

COMP 682  GRADUATE SEMINAR IN GRAPH ALGORITHMS (3-0-3)
Seminar in advanced graph algorithms, separator theorems, and planar graphs. Prerequisite: COMP 582.

COMP 690  RESEARCH AND THESIS (hours variable)

COMP 800  DOCTORAL RESEARCH (hours variable)

Cognitive Sciences (CSCI)

The School of Social Sciences

CSCI 390  SUPERVISED RESEARCH IN COGNITIVE SCIENCES (1-9-3)
Supervised research on topics relevant to cognitive sciences. Open only to cognitive sciences majors. May be counted once towards the major. May be taken a maximum of 4 times. Prerequisite: permission of instructor. Instructor: Martin

CSCI 410(S)  COMPUTATIONAL MODELING OF COGNITIVE PROCESSES (3-1-3)
Survey of computational approaches to modeling cognitive processes, with emphasis on recent connectionist models. Includes evaluation of existing models and “hands-on” modeling experience. Prerequisites: COMP 200 and 210. Also offered as PSYC 430. Offered alternate years. Instructor: Byrne

CSCI 420(F)  BRAIN AND BEHAVIOR (3-0-3)
Examination of the neural basis of higher mental functions in humans (e.g., perception, attention, memory, motor skill, and language) and discussion of claims and controversies arising from neuropsychology. Includes basic neuroanatomy, experimental and clinical investigative methods, and the historical and philosophical context of contemporary neuroscience. Prerequisite: PSYC 362 or permission of instructor. Also offered as PSYC 432. Instructor: Ro

CSCI 481(F)  HONORS PROJECT (3-0-3 each semester)
CSCI 482(S)
Independent senior research project under the guidance of one or more faculty members in the cognitive sciences program. The project will culminate in an oral presentation and final written project report by the student. Instructor: Martin
Economics (ECON)

The School of Social Sciences

Specified courses are offered in the summer through the School of Continuing Studies.

ECON 211  PRINCIPLES OF ECONOMICS I (3-0-3)
Introduction to the nature of economics. Includes price systems, household decisions, cost and supply, marginal productivity and capital theory, industrial organization and control, economic efficiency, externalities, and public goods. Required for economics and mathematical economic analysis majors. Also offered in summer. Students (both majors and nonmajors) enrolled at Rice who wish to transfer this course from another institution must pass a departmental qualifying examination.

ECON 212  PRINCIPLES OF ECONOMICS II (3-0-3)
Includes the measurement and determination of national income; money, banking, and fiscal policy; business cycles, unemployment, and inflation; international trade and balance of payments; and other contemporary economic problems. Required for economics and mathematical economic analysis majors. Prerequisite: ECON 211. Also offered in summer. Students (both majors and nonmajors) enrolled at Rice who wish to transfer this course from another institution must pass a departmental qualifying examination.

ECON 301  HISTORY OF ECONOMIC ANALYSIS (3-0-3)
Exploration of the fundamental ideas of great economic thinkers from Plato to the present. Prerequisite: ECON 211. Not offered every year.

ECON 355(S)  FINANCIAL MARKETS AND INSTITUTIONS (3-0-3)
Study the principles of U.S. and international equity and debt markets, and the interactions between such markets and various countries’ monetary and exchange rate policies. The role of financial markets and institutions in the allocation and transfer of credit and risk is highlighted, and various existing and suggested regulatory frameworks are discussed. Prerequisites: ECON 211 and 212. Instructor: El-Gamal

ECON 370  MICROECONOMIC THEORY (3-0-3)
Intermediate-level analysis of markets, firms, households, income distribution, and general equilibrium. Required for economics majors; may substitute ECON 372, but may take only one for credit. Prerequisite: ECON 211. May also be offered in summer. Instructors: (F) J. Brown, Ohno; (S) Staff

ECON 375  MACROECONOMIC THEORY (3-0-3)
Microfoundations of macroeconomic theory. Required for mathematical economic analysis majors. Prerequisites: ECON 211, ECON 212, ECON 370, MATH 101, MATH 102 or equivalents. Instructors: (F) Cordoba; (S) Bryant

ECON 380(S)  APPLIED ECONOMICS (3-0-3)
Applied econometrics methods; focus will be on the application of econometrics and complementary measurement methodologies to modeling, forecasting, and hypothesis testing. Applications will include firm decision-making, testing for discrimination in the workplace, competition policy, portfolio management, and macroeconomic forecasting. Prerequisites: ECON 211 and 212. Some knowledge of calculus is required. Instructor: Sickles

ECON 382  PROBABILITY AND STATISTICS (3-0-3)
Study of probability theory and the central concepts and methods of statistics with applications to economics, marketing, and finance. Required for mathematical economic analysis majors; may substitute STAT 410 or 431. Prerequisites: ECON 211 and MATH 102. Also offered as STAT 310.

(F) = fall; (S) =
ECON 400(S) ECONOMETRICS (3-0-3)
Survey of estimation and forecasting models. Includes multiple regression time series, contingency table analysis, and Bayesian inference. Required for mathematical economic analysis majors. Prerequisites: ECON 382 (STAT 310) or STAT 381, and MATH 355 or CAAM 310, or permission of instructor. Also offered as STAT 400. Instructor: B. Brown

ECON 403/404 SENIOR INDEPENDENT RESEARCH (3-0-3 each semester)
Independent research project for seniors on an approved topic of their choice. Prerequisite: permission of instructor. Course Coordinator: J. Brown

ECON 415(S) LABOR ECONOMICS (3-0-3)
Covers a number of topics relating to labor supply, labor demand, and equilibrium in the labor market. The course presents theoretical and empirical work in each of the subject areas covered. The presentation requires that students have a firm foundation in microeconomic theory, and it requires that students be willing to improve, over the course of a semester, their ability to apply the basic tools of microeconomic analysis. Though ECON 415 requires no prior courses in statistics or econometrics, some elementary knowledge of these subjects will be necessary for an understanding of the empirical work discussed in the course. Consequently, students in this course should be prepared to study some of the empirical techniques used by labor economists. Prerequisites: ECON 211 and ECON 370 or ECON 372, MATH 101, and MATH 102 (or equivalent). Instructor: J. Brown

ECON 416(S) ECONOMIC HISTORY OF THE U.S., 1700–1945 (3-0-3)
Overview of U.S. economic history from the colonial period to the end of World War II, with emphasis on trends in per capita income and forces behind those trends. Prerequisites: ECON 211 and ECON 370 or ECON 372 and ECON 382. Not offered every year. Instructor: Hasker

ECON 417 COMPARATIVE HISTORY OF INDUSTRIALIZATION (3-0-3)
Comparative historical analysis of the industrialization of Western Europe, the U.S., and Russia from the 18th century to World War I. Prerequisite: ECON 211. Not offered every year.

ECON 420(S) INTERNATIONAL ECONOMICS (3-0-3)
Study of the economic relationships between countries. Includes trade theory, tariffs, and other trade restrictions; international finance; trade and development; and current policy issues. Prerequisites: ECON 211, 212, and 370. Instructor: Smith

ECON 421 INTERNATIONAL FINANCE (3-0-3)
Analysis of foreign exchange, international capital markets and linkages between exchange rates, interest rates, and prices. Includes an overview of historical and institutional developments and current policy issues. Prerequisites: ECON 370 and 375 and STAT 280 or ECON 382. Not offered every year.

ECON 430 COMPARATIVE ECONOMIC SYSTEMS (3-0-3)
Analysis of the operation and institutional characteristics of various economies, using theoretical models of different economic systems. Includes the U.S., Japan, and other countries selected from Europe and Asia, with discussion of problems created by the transition of former planned economies to market systems. Not offered every year.

ECON 435(F) INDUSTRIAL ORGANIZATION (3-0-3)
Study of market structure, concentration, barriers to entry, and oligopoly pricing. Includes the application of micro theory to industry problems. Prerequisites: ECON 211 and MATH 101/102 or permission of instructor. Not offered every year. Instructor: Dudey

ECON 436 GOVERNMENT REGULATION OF BUSINESS (3-0-3)
Analysis of governmental regulatory activities under antitrust laws and in such regulated industries as communications, energy, and transportation. ECON 370 and 435 recommended. Prerequisite: ECON 211.
ECON 437  ECONOMICS OF INFORMATION, COMMON PROPERTY RESOURCES, AND PUBLIC GOODS (3-0-3)
Addresses the economics of information, common property resources, and public goods. The course will address such topics as software piracy, greenhouse effect, congestion, affirmative action, and insurance. Prerequisite: ECON 370 or ECON 372.

ECON 438(F)  ECONOMICS OF THE LAW I (3-0-3)
Exploration of the role of economics in understanding the legal system. Includes applications to contracts, property, rights, and torts. Prerequisite: ECON 372. Instructor: Brito

ECON 439  ECONOMICS OF THE LAW II (3-0-3)
Exploration of the role of economics in understanding the legal system. Includes applications to financial markets, insurance, discrimination, and constitutional issues. Prerequisites: ECON 370 or ECON 372 and ECON 438. Not offered every year.

ECON 440  FINANCIAL THEORY (3-0-3)
Microeconomic foundations of finance and insurance and other economics decisions involving risk and uncertainty. Prerequisites: calculus and algebra, ECON 211, 212, and 372, MATH 212, and some familiarity with probability theory, e.g., ECON 382 (STAT 310). Not offered every year.

ECON 445  MANAGERIAL ECONOMICS (3-0-3)
Application of economics to decision making within the firm. Includes organization theory, cost, pricing, and problems of control. ECON 212 recommended. Prerequisite: ECON 211. Not offered every year.

ECON 448  CORPORATION FINANCE (3-0-3)
Study of financial analysis, planning, and control in modern corporations. Includes valuation, cost and allocation of capital, and capital markets. Prerequisites: ECON 211 and ACCO 305. May also be offered in the summer. Instructor: (F) Chang; (S) Hartley

ECON 450  WORLD ECONOMIC AND SOCIAL DEVELOPMENT (3-0-3)
Examines past and future development in advanced and poor countries, emphasizing resources, population, entrepreneurship, education, and planning. Prerequisite: ECON 211 and 212. Not offered every year.

ECON 451(F)  THE POLITICAL ECONOMY OF LATIN AMERICA (3-0-3)
Examination of economic and political development, as well as current policy, in contemporary Latin America. Includes a comparative analysis of selected countries, with emphasis on the interaction between public policies and economic outcomes. Prerequisite: ECON 211. Instructor: Soligo

ECON 452  PRINCIPLES OF ISLAMIC ECONOMICS AND FINANCE (3-0-3)
An analysis of the positive and normative contributions to economics and finance of studying religious law in light of recent economic theory and empirical findings. Prerequisites: ECON 370 and 375.

ECON 455(S)  MONEY AND FINANCIAL MARKETS (3-0-3)
Microfoundation of monetary, fiscal and financial theory. Not offered every year. Prerequisites: ECON 211, ECON 212, ECON 370, MATH 101 and MATH 102 or equivalents. Instructor: Bryant

ECON 461  URBAN ECONOMICS (3-0-3)
Economic analysis of the development and problems of urban areas, with emphasis on current policy issues. Prerequisite: ECON 211 or permission of instructor. Not offered every year.

ECON 471(F)  LINEAR PROGRAMMING (3-0-3)
Formulation of managerial and technical problems. Includes the simplex method, the revised simplex method, duality theory and its applications, transportation problems, and decomposition techniques. Also offered as CAAM 471.
ECON 472(S)  INTRODUCTION TO GAME THEORY (3-0-3)
Study of solution concepts for different games (e.g., strategic form game, coalition form game, and extensive form game). Includes elementary application to economics and political science.  
_Instructor: Ohno_

ECON 475(S)  INTEGER AND COMBINATORIAL OPTIMIZATION (3-0-3)
Modeling and solving of optimization problems with discrete components. Includes graphs and networks, network flow problems, minimum spanning trees, basic polyhedral theory, standard problems (e.g., the knapsack problem, the plant location problem, and the set packing problem), computational complexity, branch and bound, cutting planes, Lagrangian relaxation, and Bender’s decomposition. Prerequisite: ECON 471 or CAAM 471. Also offered as CAAM 475.

ECON 477(F)  MATHEMATICAL STRUCTURE OF ECONOMIC THEORY (3-0-3)
Exploration of competitive economics from a mathematical perspective, unifying calculus, matrix algebra, and set-theoretic approaches. Includes theories of household and firm, including production models. Prerequisites: ECON 370, MATH 211.  
_Instructor: Dudey_

ECON 478  ECONOMIC APPLICATIONS OF MATHEMATICAL PROGRAMMING (3-0-3)
Study of activity analysis, computational general equilibrium and intertemporal optimization, market games, peak load, and public good pricing. Prerequisites: ECON 471 or CAAM 471 and CAAM 461. Not offered every year.

ECON 479  OPERATIONS RESEARCH—ELEMENTARY DISCRETE OPTIMIZATION (3-0-3)
Elementary treatment of ill-behaved optimization problems. Includes discrete dynamic programming and integer programming, with emphasis on theory, formulation, and computational methods. Prerequisite: ECON 471 or CAAM 471. Not offered every year.

ECON 480(F)  ENVIRONMENTAL AND ENERGY ECONOMICS (3-0-3)
Analysis of environmental problems, using economic theories of externalities and common property resources. Includes regulation, taxes and subsidies, transferable pollution rights, and legal solutions to environmental problems, as well as alternative energy sources and the pricing of depletable energy resources. Prerequisite: ECON 211.  
_Instructor: Berman_

ECON 482(F)  DISTRIBUTIVE JUSTICE—A MICROECONOMIC APPROACH (3-0-3)
Methodological individualism and social contract theories; private versus public contracts; division according to claims/liabilities; sharing joint costs and surplus: Shapley value; managing the commons: increasing or decreasing returns; fair trade and the competitive equilibrium; fair division according to tastes; cardinal welfarism: utilitarianism, egalitarianism; social choice; aggregation of performances; and voting. Prerequisites: ECON 211, ECON 370 or ECON 372 or permission of instructor.  
_Instructor: Moulin_

ECON 483(F)  PUBLIC FINANCE—TAX POLICY (3-0-3)
Analysis of the economics of tax policy, focusing on the effects on individual and firm behavior and on economic aggregates. Evaluation of alternative tax systems in terms of their efficiency, equity, and administrative simplicity characteristics. Emphasis on the federal income tax and proposals for tax reform. State and local tax policy is also examined. Prerequisites: ECON 211 and ECON 370 or ECON 372.  
_Instructor: Zodrow_
ECON 484(S)  PUBLIC EXPENDITURE THEORY AND SOCIAL INSURANCE (3-0-3)
Public goods theory including non-rival and congestible public facilities, theory of local public goods including the economics of education. The problem of preference revelation and the fundamentals of benefit-cost analysis. Analysis of the effects of social security, old age retirement, and the role of government in financing healthcare—medicare and medicaid. Prerequisites: ECON 211.  
Instructor: Mieszkowski

ECON 485/486  CONTEMPORARY ECONOMIC ISSUES (3-0-3 each semester)
Analysis of urgent and significant economic problems, with emphasis on the evaluation of policy remedies. Content varies from year to year. Not offered every year.

ECON 495  SENIOR SEMINAR (3-0-3)
Comprehensive analysis of economic issues related to a specific topic, which varies from year to year. Not offered every year.

ECON 496  SENIOR SEMINAR (3-0-3)
Comprehensive analysis of economic issues related to a specific topic, which varies from year to year.

ECON 501(F)  MICROECONOMIC THEORY I (3-6-5)
Study of the theory of the firm, the theory of consumer behavior, duopoly, bilateral monopoly, imperfect competition, capital theory, and the theory of income distribution. Prerequisites: graduate standing or ECON 211 (AP credit not acceptable) or ECON 370, ECON 372, and MATH 101, 102, 211, 212, and either MATH 355 or CAAM 335. 
Instructor: Brito

ECON 502(F)  MACROECONOMICS/MONETARY THEORY I (3-6-5)
Study of the macroeconomic theory of output, consumption, investment, interest rates, inflation, and employment. Prerequisites: graduate standing or ECON 212 (AP credit not acceptable) or ECON 375, and MATH 101, 102, 211, 212, and either MATH 355 or CAM 335. 
Instructor: Bryant

ECON 504(F)  ADVANCED ECONOMIC STATISTICS (3-6-5)
Instruction in statistical inference and the testing of hypotheses. Includes multiple and partial correlation analysis and analysis of variance and regression. Also offered as STAT 604.  
Instructor: Chang

ECON 505(S)  MACROECONOMICS/MONETARY THEORY II (3-6-5)
Detailed discussion of selected macroeconomic and monetary topics. 
Instructor: Cordoba

ECON 506(S)  TOPICS IN MACROECONOMICS/MONETARY THEORY (3-6-5)
Discussion of selected topics of current interest. Not offered every year. 
Instructor: Barut

ECON 507(F)  MATHEMATICAL ECONOMICS I (4-0-5)
Study of the theory of household or firm, activity analysis, set theory, matrix algebra, vector calculus, metric spaces, separation theory, and constrained optimization. 
Instructor: Moulin

ECON 508(S)  MICROECONOMIC THEORY II (4-0-5)
Continuation of ECON 501. Includes the set-theoretic approach to general equilibrium, aggregate linear and nonlinear production models, existence, stability, and optimality. 
Instructor: Dudey

ECON 509  MICROECONOMIC THEORY III (3-6-5)
Social choice and preference aggregation; cardinal welfarism, bargaining: axiomatic and strategic models; cooperative games: corestability and coalition formation, Shapley value, cost, and surplus sharing; mechanism design: dominant strategy, strategy proof voting, fair division, and cost sharing; and implementation in Nash, Strong, and Bayesian Equilibrium.
ECON 510(S)  ECONOMETRICS I (3-6-5)
Study of estimation and inference in single equation regression models, multicollinearity, auto-
correlated and heteroskedastic disturbances, distributed lags, asymptotic theory, and maximum
likelihood techniques, with emphasis on the ability to analyze the literature critically. Prerequisite:
ECON 504. Also offered as STAT 610. Instructor: El-Gamal

ECON 511(F)  ECONOMETRICS II (3-6-5)
Continuation of ECON 510. Includes linear and nonlinear simultaneous equations estimation,
qualitative and categorical dependent variables models, and duration analysis, with applied ex-
cercises using SAS and the Wharton Quarterly Econometric Model. Also offered as STAT 611.
Prerequisite: ECON 510. Instructor: Sickles

ECON 512(F)  INTERNATIONAL TRADE THEORY (3-6-5)
Exploration of classical, neoclassical, and modern trade theory. Includes welfare aspects of trade
such as the theory of commercial policy, with emphasis on applications. Not offered every year.
Instructor: Ohno

ECON 514(S)  INDUSTRIAL ORGANIZATIONS AND CONTROL (3-6-5)
Study of industrial markets and public policy. Instructor: Staff

ECON 515(S)  LABOR ECONOMICS (3-6-5)
Exploration of the economics of the labor market and the economic implications of trade unions,
with emphasis on major public policy issues. Not offered every year. Instructor: J. Brown

ECON 516(S)  ECONOMIC HISTORY AND DEVELOPMENT (3-6-5)
Historical analysis of the economic growth and industrialization of the U.S., Western Europe, and
Russia in the last 150 years, with emphasis on conditions that favored or retarded growth. Not
offered every year. Instructor: Hasker

ECON 517  HISTORY OF ECONOMIC ANALYSIS (3-6-5)
Exploration of the development of economic analysis from the scholastics to the neoclassical
school. Not offered every year.

ECON 518  INTERNATIONAL MACROECONOMICS (3-6-5)
Study of the effects of fiscal and monetary policies on exchange rates and the current account and
balance of payments. Includes exchange market efficiency, exchange rates and prices, LDC debt,
and policy coordination. Not offered every year.

ECON 519(S)  ECONOMIC GROWTH AND DEVELOPMENT (3-6-5)
Analysis of theory and policy questions relating to the level and rate of economic development.
Not offered every year. Instructor: Berman

ECON 521(S)  PUBLIC FINANCE I (3-6-5)
Examination of the theory of public goods and externalities, political mechanisms and public
choice, the theory of local public goods, cost-benefit analysis, and project evaluation issues of
income redistribution. Not offered every year. Instructor: Mieszkowski

ECON 522(F)  PUBLIC FINANCE II (3-6-5)
Study of the effects of taxation on individual and firm behavior, general equilibrium tax incidence
analysis, optimal taxation theory, optimal implementation of tax reform, analysis of comprehensive
income, and consumption taxes. Not offered every year. Instructor: Zodrow

ECON 523(F)  DYNAMIC OPTIMIZATION (3-6-5)
Study of dynamic optimization in discrete and continuous time. Instructor: Barut

(0-0-0) = class hours/week - lab hours/week - credits hours/semester
ECON 530  COMPARATIVE ECONOMIC SYSTEMS (3-6-5)
Analysis of theoretical models of both market and centrally planned economies. Includes the national economic systems of the former Soviet Union, China, the former Yugoslavia, various Western European countries, and the U.S. Not offered every year.

ECON 536  GOVERNMENT REGULATION OF INDUSTRY (3-6-5)
Advanced analysis of the economics of antitrust and other forms of regulation. Not offered every year.

ECON 561  URBAN ECONOMICS (3-6-5)
Analysis of urban development and such urban problems as housing, land use, transportation, discrimination, and pollution. Not offered every year.

ECON 565  HEALTH ECONOMICS (3-6-5)
Study of economic aspects of health. Includes production, cost, demand and supply factors, methods of payment, and effects of regulation. Offered every other year. Instructors: Begley, Lairson, Swint

ECON 573  NONLINEAR PROGRAMMING (3-0-5)
Instruction in the theory of, and computational methods for, nonlinear programming. Includes Kuhn-Tucker conditions, duality theory, and methods for constrained optimization of convex and nonconvex problems. Also offered as CAAM 573. Not offered every year.

ECON 577(S)  TOPICS IN ECONOMIC THEORY I (3-0-5)
Discussion of topics in advanced economic theory. Not offered every year. May repeat for credit. Instructor: Hasker

ECON 578(S)  TOPICS IN ECONOMIC THEORY II (3-0-5)
Discussion of selected topics in advanced economical theory. Not offered every year. May repeat for credit. Instructor: Chae

ECON 579  TOPICS IN ECONOMETRICS (3-0-5)
Discussion of selected topics in advanced econometrics. Prerequisite: ECON 511. Not offered every year. May repeat for credit. Instructors: (F) B. Brown; (S) Chang

ECON 591/592  TOPICS IN POLICY AND APPLIED ECONOMICS
(3-6-5 each semester)
Discussion of selected topics in policy and applied economics. Not offered every year.

ECON 593(F)  WORKSHOP IN ECONOMICS I (3-0-5 each semester)
ECON 594(S)
Seminars on advanced topics in macroeconomics, microeconomics, and econometrics, presented through guest lectures by leading researchers. Open to graduate students only. Includes preparation of a research paper over the course of the year and its presentation in the workshop.

Section 001  WORKSHOP IN MACROECONOMICS..................................Instructor: Barut
Section 002  WORKSHOP IN MICROECONOMICS .................................Instructor: Moulin
Section 003  WORKSHOP IN ECONOMETRICS.........................................Instructor: El-Gamal

ECON 595(F)  WORKSHOP IN ECONOMICS II (3-0-5 each semester)
ECON 596(S)
Second-year continuation of ECON 593–594.

(F) = fall; (S) =
EDUC 201(F) CONTEMPORARY ISSUES IN EDUCATION (3-0-3)
Exploration of current issues and controversies in education through research and primary experience. Requires a minimum of 14 hours of service or experience in K–12 schools, to be arranged individually. Directed to all students interested in issues of K–12 education and recommended for those interested in entering the teacher preparation program. Not offered 2001–2002.

EDUC 301(F) HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATION (3-0-3)
Formerly EDUC 311. Analysis of events and ideas that have shaped the philosophy and practice of American schools today. Requires at least 15 hours of observation in secondary schools. Required for students earning teacher certification, but also appropriate for all students interested in the influences and stresses that have created a unique educational system in our culturally diverse country. Required for certification unless EDUC 330 is substituted. Instructors: Coppola, Heckelman

EDUC 305(S) EDUCATIONAL PSYCHOLOGY (3-0-3)
Formerly EDUC 312. The goal of this course is to introduce students to a psychological understanding of teaching and learning through an overview of principles, issues, and related research in educational psychology. The course will examine theories of learning, complex cognitive processes, cognitive and emotional development, motivation, and the application of these constructs to effective instruction, the design of optimum learning environments, assessment of student learning, and teaching in diverse classrooms. It is a general overview of the field and requires no prior preparation. Required for certification. Instructor: Ziemer

EDUC 330(F) THE AMERICAN HIGH SCHOOL (3-0-3)
Formerly EDUC 409. Survey of the background, purposes, and organization of modern secondary schools and their students and their curricula. Includes the policy and administration of secondary schools, as well as introductory educational research. Fifteen hours of observation in the schools required. Can be substituted for EDUC 301 to satisfy certification requirements. Instructor: McNeil

EDUC 335(S) URBAN EDUCATION: ISSUES, POLICY, AND PRACTICE (3-0-3)
Major issues facing urban education, including poverty, the implications of racial and ethnic diversity for educational institutions, and strategies for improving academic achievement in urban schools. We will examine sociological, political, cultural, and educational research and theory, as well as explore strategies for improvement of urban education at the classroom, school, and policy levels. Instructor: Coppola

EDUC 340(S) COMPUTERS IN EDUCATION (3-0-3)
Formerly EDUC 367. Technology is and will continue to be deeply involved in the education process. In this course, students will investigate and use computer applications to enhance classroom teaching and facilitate administrative tasks. Additionally, the Internet will be utilized as a teacher and student resource. Required for certification. Instructor: White

The following seminars in teaching (EDUC 410–416) provide the transition from the academic study of theories of teaching and learning to the practice of teaching. Each of the seminars is designed to provide the preprofessional student with conceptual paradigms, models of a wide range of pedagogical practices, the preparation of curriculum materials, and practice in using resource collections. Students will enroll in a seminar in methods for each field in which the student seeks teacher certification. The appropriate seminar(s) in teaching, EDUC 420 Curriculum Development, and EDUC 440 Supervised Teaching: Summer School are requirements for certification. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530 and permission of instructor. Required for certification.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
EDUC 410(F) THEORY AND METHODS: ART (hours variable)
Study of methods for putting theory into practice in the classroom. Includes multiple methods for educating students in our diverse society, reflection on, and practice of the skills of teaching applicable to the discipline. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 411(F) THEORY AND METHODS: ENGLISH (hours variable)
Study of methods for putting theory into practice in the classroom. Includes multiple methods for educating students in our diverse society and reflection on and practice of the skills of teaching applicable to the discipline. Prerequisites: EDUC 301/EDUC 501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 412(F) THEORY AND METHODS: FOREIGN LANGUAGE (hours variable)
Study of methods for putting theory into practice in the classroom. Includes multiple methods for educating students in our diverse society and reflection on and practice of the skills of teaching applicable to the discipline. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530 and permission of instructor. Instructors: Heckelman, Staff

EDUC 413(F) THEORY AND METHODS: MATHEMATICS (hours variable)
Topics include the middle and senior high school mathematics curriculum, instructional planning, effective learning environments, innovative teaching and motivational strategies, the use of manipulatives and technology in instruction, and assessment. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 414(F) THEORY AND METHODS: PHYSICAL EDUCATION (hours variable)
Study of methods for putting theory into practice in the classroom. Includes multiple methods for educating students in our diverse society and reflection on and practice of the skills of teaching applicable to the discipline. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 415(F) THEORY AND METHODS: SCIENCE (hours variable)
Study of methods for putting theory into practice in the classroom. Includes multiple methods for educating students in our diverse society and reflection on and practice of the skills of teaching applicable to the discipline. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 416(F) THEORY AND METHODS: SOCIAL STUDIES (hours variable)
The nature of social studies as a school subject will be explored along with a variety of instructional approaches that support the multiple definitions and purposes of social studies. The role of social studies in a democratic society will particularly be emphasized in a participatory classroom environment. Prerequisites: EDUC 301/501 or EDUC 330/530 or concurrent enrollment in EDUC 301/501 or EDUC 330/530, and permission of instructor. Instructors: Heckelman, Staff

EDUC 420(S) CURRICULUM DEVELOPMENT (hours variable)
Formerly EDUC 410. Integration of theory with practice as students observe a master teacher, identify issues of developing and implementing curriculum with a diverse student body, and create curriculum for the Summer School for Middle and High School Students. Students must be admitted to the Teacher Preparation Program and be committed to student teaching in Summer School. Required for certification. Instructor: Heckelman
EDUC 440  SUPERVISED TEACHING: SUMMER SCHOOL  (3-0-3)
Student teaching in the Rice Summer School for Middle and High School Students under the supervision of assigned master teachers and education faculty. Prerequisites: EDUC 301/501 or EDUC 330/530, EDUC 420, appropriate seminar(s) in teaching, and permission of instructor. May be repeated for credit. Required for certification. **Instructor: Heckelman**

EDUC 489(S)  ADOLESCENT LITERATURE  (3-0-3)
Exploration of the use of literature written for middle and high school students to engage and motivate reluctant readers. Not offered in 2001–2002. **Instructor: Staff**

EDUC 491(F)  FIELD-BASED STUDIES  (3-0-3)
Prerequisite: permission of instructor. Not offered in 2001–2002. **Instructor: Staff**

EDUC 501(F)  HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATION  (3-0-3)
Formerly EDUC 511. Graduate level equivalent of EDUC 301. **Instructors: Coppola, Heckelman**

EDUC 505(S)  EDUCATIONAL PSYCHOLOGY  (3-0-3)
Formerly EDUC 512. Graduate level equivalent of EDUC 305. **Instructor: Zeimer**

EDUC 530(F)  THE AMERICAN HIGH SCHOOL  (3-0-3)
Graduate level equivalent of EDUC 330. Can be substituted for EDUC 501 to satisfy certification requirement. **Instructor: McNeil**

EDUC 540(F)  INTERNSHIP  (3-0-3)
Field-based practicum for secondary teachers, with accompanying seminar. Prerequisites: EDUC 440 and permission of instructor. **Instructor: Heckelman**

EDUC 580  CONTEMPORARY TOPICS IN ELEMENTARY SCHOOL MATHEMATICS  (hours variable)
Mathematics topics related to the elementary grades that include number and operations, geometry, probability, statistics, patterns, functions, and measurement. Hands-on experiences in innovative methods using manipulatives and technology, problem-solving techniques, and motivational strategies. Curriculum development using the Rice University School Mathematics Project Learning Plan. Assessment in the elementary school classroom. Offered in summers. Enrollment by consent of instructor. **Instructor: Papakonstantinou**

EDUC 585  CONTEMPORARY TOPICS IN MIDDLE SCHOOL MATHEMATICS  (hours variable)
Topics related to middle school mathematics that include number concepts, ratio, proportion, geometry, measurement, probability, statistics, variables, and functions. A problem-solving approach to teaching mathematics with an emphasis on the use of manipulatives and technology. Curriculum development using the Rice University School Mathematics Project Learning Plan. Assessment techniques. Offered during the academic year and in summers. Enrollment by consent of instructor. **Instructor: Papakonstantinou**

EDUC 586(S)  CONTEMPORARY TOPICS IN ELEMENTARY AND MIDDLE SCHOOL SCIENCE I  (hours variable)
Topics related to science instruction in grades 3 through 8. Includes field studies, classroom observations, and implementation of instructional strategies in the classroom. Science content will be provided, along with some curriculum development. Offered in summer also. May be repeated for credit. Enrollment by consent of instructor. **Instructor: Dominey**
EDUC 587(F) CONTEMPORARY TOPICS IN ELEMENTARY AND MIDDLE SCHOOL SCIENCE II (hours variable)
Topics related to science instruction in grades 3 through 8. Includes field studies, classroom observations, and implementation of instructional strategies in the classroom. Science content will be provided, along with some curriculum development. Prerequisite: EDUC 586. May be repeated for credit. Enrollment by consent of instructor. Not offered 2001–2002. Instructor: Dominey

EDUC 588 SOLAR SYSTEM FOR TEACHERS (3-0-3)
Overview of solar system structure, evolution, and dynamics. Includes mathematics of solar system motion (e.g., ellipses, Kepler’s laws). Studies will include effects of impact events on planets. Laboratory work includes training in simple astronomical software and some field observations. This course is designed for science and math teachers (grades 6-12) but is also available for a general audience. Also offered as ASTR 402. Not offered 2001–2002.

EDUC 589(S) ASTRONOMY FOR TEACHERS (3-0-3)
Learn how to teach astronomy concepts as specified by the state of Texas. This class provides the most basic concepts and shows what is necessary for students to master them, following the development specified in the TEKS. Lab activities suitable for replication in K–9 classrooms and as local field trip experience. Also offered as ASTR 403. Instructor: Reiff

EDUC 590 CONTEMPORARY TOPICS IN SENIOR HIGH SCHOOL MATHEMATICS (hours variable)
Topics related to senior high school mathematics that include geometry, probability, statistics, functions, limits, sequences, series, and number theory. A problem-solving approach to teaching mathematics with an emphasis on the use of manipulatives and technology. Curriculum development using the Rice University School Mathematics Project Learning Plan. Assessment techniques. Offered in summer also. Enrollment by consent of instructor. Instructor: Papakonstantinou

EDUC 591 INDEPENDENT STUDY AND RESEARCH (hours variable)
Requires field hours. MAT equivalent of EDUC 491. Prerequisite: consent of instructor. Instructor: Staff

EDUC 592(F) SEMINAR IN SCIENCE FOUNDATIONS (3-0-2)
Seminar with a team of university faculty and community-based scientists (in fields such as medicine, space, energy, and the environment) to increase understanding of scientific principles as they are applied in the scientific community of Houston and as they relate to secondary school science. Prerequisite: consent of instructor. Instructor: Harcombe

EDUC 593(F) PRACTICUM IN TEACHING SCIENCE (3-0-2)
Students will develop and practice interactive teaching strategies to engage students in a process of observation and discovery fundamental to the sciences. Prerequisite: consent of instructor. Instructor: Harcombe

EDUC 594(S) PRACTICUM IN TEACHING SCIENCE (3-0-3)
Students will develop and practice interactive teaching strategies to engage students in a process of observation and discovery fundamental to the sciences. Prerequisite: consent of instructor. Instructor: Harcombe

EDUC 595 TOPICS IN CONTEMPORARY ALGEBRA FOR IN-SERVICE TEACHERS (hours variable)
Teaching beginning algebra with an emphasis on mathematical models, representations, variables, functions, and symbolic reasoning. Foundation concepts for secondary mathematics, algebraic thinking, symbolic reasoning, functions, relationship between algebra and geometry, and underlying mathematical processes. Use of manipulatives and technology. Curriculum development using the Rice University School Mathematics Project Learning Plan. Offered in summer also. Enrollment by consent of instructor. Instructor: Papakonstantinou

(F) = fall; (S) =
Electrical and Computer Engineering (ELEC)

The George R. Brown School of Engineering

ELEC 201(F)  INTRODUCTION TO ENGINEERING DESIGN (3-4-4)
This is a hands-on introduction to engineering design. Using skills developed in the course, teams of students will design and construct a functional robot and program this robot to perform simple tasks. The course is completely self-contained, assumes no prerequisites, and is intended for both engineering majors and nonmajors, all years. Also offered as ENGI 201. Enrollment limited. Instructor: Young

ELEC 241(F)  FUNDAMENTALS OF ELECTRICAL ENGINEERING I (3-3-4)
The creation, manipulation, transmission, and reception of information by electronic means, elementary signal theory; time- and frequency-domain analysis; sampling theorem. Digital information theory; digital transmission of analog signals; error-correcting codes. Laboratory demonstrating the principles of information management by electronic means. Prerequisites: MATH 101 and 102. Instructor: Johnson

ELEC 242(S)  FUNDAMENTALS OF ELECTRICAL ENGINEERING II (3-3-4)
Formulation and solution of equations describing electric circuits and electromechanical systems. Behavior of dynamic systems in the time and frequency domains. Basic electronic devices and circuits, including diodes, transistors, optoelectronics, gates, and amplifiers. Introduction to feedback control and digital systems. Prerequisite: ELEC 241. Instructor: Wise

ELEC 243(S)  INTRODUCTION TO ELECTRONICS (3-3-4)
Introduction to analog and digital circuit analysis and design. Basic circuit elements, transistors, OP amps, digital devices and systems. Intended for nonmajors. Prerequisites: MATH 101 and 102. Instructor: Mittleman

ELEC 301(F)  INTRODUCTION TO SIGNALS (3-0-3)
Analytical framework for analyzing signals and systems. Time and frequency domain analysis of continuous time signals and systems, solution of differential equations, convolution, and the Laplace transform. Fourier analysis. Prerequisite: ELEC 241. Instructor: Baraniuk

ELEC 302(S)  INTRODUCTION TO SYSTEMS (3-0-3)
A study of linear dynamical systems based on state-space representation. Includes the structural properties of systems such as controllability and observability. About one-third of the course is devoted to the study of linear algebraic concepts, like range, null space, eigenvalues diagonalizability. Applications to control problems. Prerequisite: ELEC 301. Corequisite: ELEC 303. Instructor: Antoulas

ELEC 303(S)  SYSTEMS LABORATORY (0-1-1)
Corequisite: ELEC 302. Prerequisite: ELEC 301. Instructor: Antoulas

ELEC 305(F)  INTRODUCTION TO PHYSICAL ELECTRONICS (3-0-3)
Study of transmission lines and pulse propagation; basic semiconductor devices; waves; and lasers. Prerequisites: ELEC 241 and 242. Instructor: Wilson

ELEC 306(S)  ELECTROMAGNETIC FIELDS AND DEVICES (3-0-3)
A course to introduce students to various electrical engineering aspects and devices based on electromagnetic field theory. Includes basic concepts of waveguides, resonators, optical fibers, waveguide devices, a survey of antennas, and a discussion of radar, lidar, and remote sensing principles. Prerequisite: ELEC 305. Instructor: Tittel

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ELEC 320(S)  INTRODUCTION TO COMPUTER ORGANIZATION (3-3-4)
Microprocessor architecture, including the memory hierarchy, pipelining, I/O devices, and interrupts and concurrency. Computer representation of and operations on basic data such as instructions, integers, floating point numbers, and pointers. Low-level programming in C and assembly language. Basic system software. Performance issues. Prerequisite: CAAM 210 or COMP 210. Instructor: Varman

ELEC 322(S)  APPLIED ALGORITHMS AND DATA STRUCTURES (3-3-4)
Design and analysis of computer algorithms and data structures useful for applied problems. Includes lab assignments using these techniques in conjunction with advanced programming methods. Required for computer science majors. Prerequisites: COMP 212 and 280. Also offered as COMP 314. Instructor: Wallach

ELEC 326  DIGITAL LOGIC DESIGN (3-0-3)
Study of gates, flip-flops, combinational and sequential switching circuits, registers, and logical and arithmetic operations. Prerequisite: COMP 210 or CAAM 210. Instructors: Jump, Sinclair

ELEC 327(S)  DIGITAL LOGIC DESIGN LABORATORY (0-2-2)
Design, construction, and testing of projects built from digital integrated circuits using the techniques presented in ELEC 326. Prerequisites: ELEC 241 and 326. Instructor: Jump

ELEC 331(F)  APPLIED PROBABILITY (3-0-3)
Elementary probability theory, conditional probability, independence, discrete and continuous distributions, transformation techniques, central limit theorems, estimation, correlation, and regression. Selected topics such as the Poisson process, Markov chains, and statistical techniques. Illustration from engineering. Prerequisite: MATH 212. Also offered as STAT 331 and CAAM 381. Instructor: Scott

ELEC 342(S)  ELECTRONIC CIRCUITS (3-3-4)
Models of diodes, bipolar and field effect transistors. Biasing methods, distortion analysis, two-port analysis, single-stage and multistage amplifiers, frequency domain characteristics, feedback, stability, and power amplifiers. Lab culminates in the design and testing of a low-distortion audio frequency power amplifier. Prerequisite: ELEC 242. Instructor: Massey

ELEC 361(S)  ELECTRONIC MATERIALS AND QUANTUM DEVICES (3-0-3)
This course provides the background in quantum mechanics and solid-state physics necessary for further studies in device physics (ELEC 462) and quantum electronics (ELEC 463). Prerequisite: PHYS 202. Instructor: Halas

ELEC 381(F)  FUNDAMENTALS OF ELECTROPHYSIOLOGY (3-0-3)
Introduction to the electrophysiology of the cell membrane. Development of mathematical models of different types of ionic membrane currents and fluid compartment models, culminating in the development of functional whole-cell models for neurons and muscle (cardiac, skeletal, and smooth muscle) cells. Characterization of volume conductor boundary value problems encountered in electrophysiology consisting of the adequate description of the bioelectric current source and the volume conductor (surrounding tissue) medium. This provides a basis for the interpretation of macroscopic bioelectric signals, such as the electrocardiogram (ECG), electromyogram (EMG), and electroencephalogram (EEG). Also offered as BIOE 381. Prerequisite: consent of instructor. Instructor: Clark

(F) = fall; (S) =
ELEC 383(S)  INTRODUCTION TO BIOMEDICAL INSTRUMENTATION AND MEASUREMENT TECHNIQUES (3-0-3)
Review of basic sensors, measurement principles, and analog electronics using operational amplifiers. Includes design problems using operational amplifier circuits (e.g., instrumentation and isolation amplifiers, comparators, timer circuits). Introduction to development of virtual instruments (VIs) using LabView. Discussion of micro- and macro-biopotential electrodes, cell cytometry, the measurement of blood pressure, blood flow, and heart sounds, temperature, and the principles of electrical safety (e.g., micro- and macro-shock hazards in the clinical environment). Includes discussion of pulmonary instrumentation and medical applications of ultrasound. Two lab exercises and a term project required. Also offered as MECH 383 and BIOE 383. Prerequisite: ELEC 381 or consent of instructor. Instructor: Anvari

ELEC 391(S)  SEMINAR ON PROFESSIONAL ISSUES IN ELECTRICAL ENGINEERING (1-0-1)
This course will discuss issues related to engineering professional practice and other career choices for electrical engineers. Topics will include intellectual property rights and patents, engineering ethics, politics and engineering, entrepreneurship and venture capitalism, professional licensing, graduate study in engineering, and environmental issues. Instructors: Jump, Sinclair, Wilson

ELEC 421(S)  OPERATING SYSTEMS AND CONCURRENT PROGRAMS (3-3-4)
Introduction to the design, construction, and analysis of concurrent programs, with emphasis on operating systems. Includes filing systems, schedulers, and memory allocators, with specific attention to process synchronization and communication within concurrent programs. Prerequisites: COMP 212 and ELEC 320. Also offered as COMP 421. Instructor: Staff

ELEC 422(F)  VLSI DESIGN I (4-0-4)
Study of VLSI technology and design and MOS devices, characteristics, and fabrication. Includes logic design and implementation, VLSI design methodology, circuit simulation, and verification, as well as group design projects. Limited enrollment. Must take ELEC 423 the following semester. Prerequisite: ELEC 326. Instructor: Cavallaro

ELEC 423(S)  VLSI DESIGN II (2-0-2)
Continuation of ELEC 422. Includes testing and evaluation of VLSI circuits designed in the preceding course as well as study of efficient test methodologies and topics in computer-aided design. Prerequisite: ELEC 422. Instructor: Cavallaro

ELEC 424(S)  COMPUTER SYSTEMS DESIGN (3-3-4)
Specification, design, and implementation of practical computer systems, taking into account cost constraints and available technology. Includes data path, control unit, and memory system design details, as well as a comparison of bus architectures and techniques for peripheral interfacing. Major design project required in lab. Prerequisite: ELEC 425. Instructor: Staff

ELEC 425(F)  COMPUTER SYSTEMS ARCHITECTURE (3-3-4)
Design of advanced uniprocessor system architecture and the basics of parallel architectures. Includes advanced pipelining (e.g., dynamic scheduling and precise interrupt handling), techniques for exploiting instruction-level parallelism (e.g., superscalar and VLIW architecture), case studies of recent high-performance microprocessors, vector processors, memory systems design (e.g., techniques to improve cache performance, virtual memory systems, and main memory enhancement), I/O systems such as disk arrays and graphical interfaces, and an overview of parallel computers. Prerequisites: ELEC 320/COMP 320 and ELEC 326. Also offered as COMP 425. Instructor: Varman

ELEC 426(F)  DIGITAL SYSTEMS DESIGN (3-3-4)
Examination of the design elements of modern computer and microprocessor systems, with emphasis on state machine based design and microcontrollers. Includes use of VHDL, ABEL, and graphical simulation software to model complex digital systems. Implementation of a system involving high-speed arithmetic techniques in lab. Prerequisites: ELEC 320, 326, and 327. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ELEC 427(S)  PULSE AND DIGITAL CIRCUITS (3-3-4)
Study of discrete and integrated solid-state circuits. Includes monostable, bistable, and astable multivibrators, the interaction of linear components with diodes, bipolar transistors, and field effect transistors, applications of linear one and two degree-of-freedom circuits to digital hardware, the analysis of circuits and their interconnection to form digital systems, and the construction of digital projects using discrete and integrated circuits. Prerequisites: ELEC 326, 327 and 342. Instructor: Staff

ELEC 428(S)  COMPUTER SYSTEMS PERFORMANCE (3-3-4)
Examination of analytical models of computer systems. Includes queueing theory and Markov chains, simulation and analysis of simulation results, and operational analysis, as well as a project. Prerequisite: ELEC 331. Instructor: Sinclair

ELEC 429(S)  INTRODUCTION TO COMPUTER NETWORKS (3-0-3)
Network architectures and basic protocols. Routing flow control. Access methods. Transmission media, error management. Network performance. The course will cover several types of networks, including CSMA/CD, token ring, and ATM. Prerequisite: ELEC 331. Also offered as COMP 429. Instructor: Knightly

ELEC 430(S)  COMMUNICATION THEORY AND SYSTEMS (3-0-3)
Review of applied probability theory and an introduction to stochastic processes. Includes complex-signal analysis, AM and FM, digital communication, PCM, signal transmission, optimum receiver theory, and information theory and coding. Prerequisite: ELEC 331. Corequisite: ELEC 433. Instructor: Aazhang

ELEC 431(F)  DIGITAL SIGNAL PROCESSING (3-0-3)
Analysis of discrete-time signals and systems. Includes filter design and implementation, an introduction to least squares and statistical signal processing, and applications in speech and image processing. Prerequisite: ELEC 301. Instructor: Nowak

ELEC 432(S)  INTRODUCTION TO TIME SERIES ANALYSIS (3-0-3)
Time series modeling and forecasting. Prerequisite: STAT 310 or permission of instructor. Also offered as STAT 421. Instructor: Cox

ELEC 433(S)  COMMUNICATION SYSTEMS LAB (3-6-2)
“Hands-on” experience in the simulation of communication systems, Monte Carlo simulation of random signals (noise), block-oriented simulation of physical links, and a performance evaluation of the data network. Required for electrical and computer engineering majors in B.A. program. Prerequisite: ELEC 331. Corequisite: ELEC 430. Instructor: Aazhang

ELEC 435(F)  ELECTROMECHANICAL DEVICES AND SYSTEMS (3-0-3)
Introduction to the physical and engineering aspects of electromechanical sensors and actuators. Includes underlying physical phenomena, practical devices, electrical and mechanical interfacing, and control of electromechanical systems. Prerequisite: ELEC 242 or 243. Also offered as MEC 435. Instructor: Wise

ELEC 436(S)  CONTROL SYSTEMS I (3-0-3)
Representation, analysis, and design of simple control systems in the time and frequency domain. Prerequisite: ELEC 302. Instructor: Ghorbel

(F) = fall; (S) =
ELEC 440(S)  ARTIFICIAL INTELLIGENCE  (3-3-4)
Study of methods for designing and analyzing intelligent agents (e.g., embedded control systems that achieve specific performance objectives within limited resources), using mathematical tools from computer science, logic, probability theory, and economics, as well as relevant literature in neurobiology and psychology. Includes construction of, and experimentation with, software simulations of complex discrete control systems. Optional module involves hardware implementation of an insect robot. Prerequisite: COMP 210. Also offered as COMP 440. Instructor: Subramanian

ELEC 442(F)  ADVANCED ELECTRONIC CIRCUITS  (3-0-3)
Electronic circuits used in communication and other systems, including principles of multiple feedback, feedforward, automatic gain control, active filtering, tuned amplification, oscillation, modulation, and detection. Emphasis on design and a challenging laboratory project. Prerequisite: ELEC 342. Instructor: Massey

ELEC 443(S)  POWER ELECTRONIC CIRCUITS  (3-3-4)
Minimization of power consumption in electronic circuits with the required system performance. Design of high-efficiency power amplifiers. Electronic circuits used in power systems, including the principles of phase-controlled rectification, high-frequency inversion, and DC-DC conversion, with emphasis on design and lab project. Prerequisite: ELEC 342. Instructor: Massey

ELEC 444(F)  ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY  (3-3-4)
Fundamental EMI/EMC principles, development of regulations and requirements, nonideal and nonlinear behavior of components, radiated and conducted emissions and susceptibility, testing techniques to determine compliance, electrical/mechanical techniques to ensure compliance, modeling and electrostatic discharge. Lab is application of principles to analog and/or digital circuits. Prerequisite: ELEC 305. Instructor: Massey

ELEC 462(F)  SEMICONDUCTOR DEVICES  (3-4-4)
Physical principles and operational characteristics of semiconductor devices. Bipolar and MOS transistors. IC circuit fabricators. Prerequisites: PHYS 202, ELEC 359. Instructor: Wilson

ELEC 463(S)  LASERS AND PHOTONICS  (3-0-3)
Introduction to the physics and technology of lasers and related devices. The course consists of lectures, homework, and student presentations on particular topics. Prerequisite: PHYS 202. Instructor: Staff

ELEC 465(S)  PHYSICAL ELECTRONICS PRACTICUM  (2-4-3)
To introduce students to a variety of experimental techniques, methods, and instruments of current interest. The content will generally correspond to the ideas and concepts introduced in the physical electronics courses ELEC 305, 306, 461, and 463, including general optics, laser and fiber optics, vacuum systems, cryogenics, etc. Prerequisites: PHYS 201 and ELEC 305. Instructor: Staff

ELEC 481(F)  COMPUTATIONAL NEUROSCIENCE  (3-0-3)
Introduction to the nervous system is given, including the electrophysiology of nerve and muscle cells, synaptic transmission, and sense receptors. The theory underlying Hodgkin-Huxley-type models of excitable cells is discussed, and several examples of models for neurons, muscle cells, and synapses are used as case studies. Modeled neurons are interconnected using synaptic models to form functional representations of small neural networks. At all levels, comparisons are made with experimental data. Course provides an introduction to biological modeling and computation, as well as an introduction to the anatomy and function of the brain and spinal cord. Prerequisite: permission of instructor. Also offered as BIOE 481. Instructor: Clark
ELEC 482(S) PHYSIOLOGICAL CONTROL SYSTEMS (3-0-3)
Nervous system control of biological systems can be described utilizing techniques common to the fields of linear, nonlinear, or adaptive control theory. This course begins with a review of the basic aspects of control theory, followed by detailed discussion of the structure of several biological systems, including the visual, cardiovascular, and pulmonary systems. Specific examples of neural control are developed for each system, utilizing modeling and simulation techniques. Parameter sensitivity analysis and parameter estimation techniques are likewise brought to bear on some of these models to achieve good least-squares fits to experimental data. Prerequisite: ELEC 481 or permission of instructor. Also offered as BIOE 482. Instructor: Clark

ELEC 483(S) INTRODUCTION TO BIOMEDICAL INSTRUMENTATION AND MEASUREMENT TECHNIQUES (3-0-4)
Review of basic sensors and measurement principles. Includes design problems using operational amplifier circuits (e.g. instrumentation and isolation amplifiers, comparators, timer circuits). Introduction to development of virtual instruments (VIs), using Labview. Discussion of micro- and macro-biopotential electrodes, cell cytometry, the measurement of blood pressure, blood flow, and heart sounds, temperature, and the principles of electrical safety (e.g., micro- and macro-shock hazards in the clinical environment). Includes discussion of pulmonary instrumentation and medical applications of ultrasound. Two lab exercises and a term project required. Prerequisite: ELEC 481 or permission of the instructor. Also offered as BIOE 483 and MECH 483. Instructors: Clark, Ghorbel

ELEC 485 (F) FUNDAMENTALS OF MEDICAL IMAGING I (3-0-3)
The course will introduce basic medical imaging modalities, such as X-ray, CT, and MRI, used to identify the anatomy of human organs, as well as other modalities, such as PET, SPECT, fMRI and MEG, specifically developed to localize brain function. The course includes visits to clinical sites. Also offered as BIOE 485 and COMP 485. Prerequisite: consent of instructor. Instructors: Anvari, Zouridakis

ELEC 486(S) FUNDAMENTALS OF MEDICAL IMAGING II (3-0-3)
The objective of this course is to introduce the fundamentals of imaging brain function, as opposed to brain structure, using invasive and noninvasive imaging modalities. In addition, basic techniques for fusing multimodal images in a single three-dimensional representation are presented, along with some specific clinical applications. Also offered as BIOE 486. Prerequisite: Fundamentals of Medical Imaging I. Instructor: Zouridakis

ELEC 490 ELECTRICAL ENGINEERING PROJECTS (hours variable)
Theoretical and experimental investigations under staff direction. May be repeated for up to a total of 6 hours credit. Prerequisite: permission of instructor.

ELEC 491(F) SENIOR DESIGN PROJECT (3 hours credit)
ELEC 492(S) SENIOR DESIGN PROJECT (4 hours credit)
A capstone design experience in electrical and computer engineering. This course provides an opportunity for students to apply knowledge and skills acquired in previous courses to the solution of a realistic engineering problem. Teams of students will specify, design, and build a system to meet a prescribed set of requirements. The topics covered in this course will include design methodology, effective teamwork, project management, documentation, and presentation skills. Prerequisite: senior standing in department. Must complete ELEC 492 to receive credit for ELEC 491. Instructor: Wise

ELEC 501(F) APPROXIMATION OF DYNAMICAL SYSTEMS (3-0-3)
In this course, dynamical systems described by sets of coupled linear, differential, or difference equations will be considered. The goal is to approximate the behavior of such systems by that of simpler ones, the complexity being measured by the number of state variables needed to describe them. For such approximations to be useful in theory and in practice, they need to preserve certain properties of the original system (for instance stability), lead to a quantification of appropriate measures of the approximation error, and be numerically stable. We will present the theory of approximation using singular values, and (2) moment matching. Examples and case studies from various engineering disciplines (electrical, mechanical, chemical, civil) will be discussed. Prerequisites: ELEC 301 and 302, or equivalent. Instructor: Antoulas

(F) = fall; (S) = spring
ELEC 507(F)  NONLINEAR DYNAMIC SYSTEMS ANALYSIS I (3-0-3)
Introduction to analytical methods describing functions (e.g., singular point and phase plane analysis) and to stability analysis via Lyapunov functions, digital computer simulation methods, parameter estimation, and sensitivity analysis. Includes an introduction to the chaotic behavior of nonlinear dynamic systems. Also offered as MECH 507. Not offered 2001–2002. Instructor: Clark

ELEC 508(S)  NONLINEAR SYSTEMS ANALYSIS II (3-0-3)
Review of the fundamental properties of nonlinear systems. Includes nonlinear ordinary differential equations (e.g., the existence and uniqueness of solution), Lyapunov stability (e.g., stability definitions, Lyapunov’s direct method, invariance theory, stability of linear systems, Lyapunov’s linearization methods, and converse theorems), and input-output stability (e.g., the small gain theorem and passivity theorem), as well as case studies showing applications to nonlinear and adaptive control and robotics. Also offered as MECH 508. Instructor: Ghorbel

ELEC 519(F)  PARALLEL ALGORITHMS AND ARCHITECTURE (3-0-3)
Parallel architectures: shared memory, VLSI, message-passing. Structure and relation between architectures. Parallel time, work, and efficiency. Parallel algorithms for fundamental computational problems and applications. Network routing. Prerequisite: ELEC 322. Also offered as COMP 583. Instructor: Varman

ELEC 520(F)  DISTRIBUTED SYSTEMS (3-3-4)
Study of distributed systems (e.g., workstations, local area networks, and server machines). Includes multiprocess structuring and interprocess communication, file access and memory management, user interfaces (e.g., window systems and command interpreters), and case studies of selected distributed systems, with emphasis on performance aspects of system software design. Prerequisites: ELEC 421 and 425. Also offered as COMP 520. Instructor: Zwaenepoel

ELEC 522(S)  ADVANCED VLSI DESIGN (3-0-3)
Design and analysis of algorithm-specific VLSI processor architectures. Includes implementation of pipelined and systolic processor arrays, techniques for mapping numerical algorithms onto custom processor arrays, and a design project using high-level VLSI synthesis tools. Enrollment limited to 15. Prerequisites: ELEC 422 and 423. Instructor: Cavallaro

ELEC 525(S)  ADVANCED COMPUTER ARCHITECTURE (3-0-4)
Design of parallel architectures such as shared memory MIMD (multiple-instruction-multiple-data), message passing MIMD, and SIMD (single-instruction-multiple-data) architectures. Includes interconnection networks, techniques to reduce and tolerate communication latency (e.g., cache coherence protocols, memory consistency models, and multithreaded and data flow architectures), synchronization, and software involvement for improving performance, as well as case studies of parallel machines. Prerequisite: ELEC 425. Also offered as COMP 525.

ELEC 529(F)  COMPUTER NETWORKS ARCHITECTURE AND PROTOCOL (3-0-3)
Introduction to computer networks and computer communication. Includes the design of protocols for error recovery, reliable delivery, routing, and congestion control. Also includes examining store-and-forward networks, satellite networks, local area networks, and locally distributed systems; using case studies of networks, protocols, and protocol families; and emphasizing software design issues in computer communication. Also offered as COMP 529. Prerequisites: ELEC 331, COMP 421. Instructor: Staff

ELEC 530(S)  DETECTION THEORY (3-0-3)
Classic and modern methods of optimal decisions in communications and signal processing. Continuous- and discrete-time methods. Gaussian and non-Gaussian problems. Prerequisite: ELEC 430 or Stochastic Processes. Instructor: Johnson

ELEC 531(F)  DIGITAL SIGNAL PROCESSING (3-0-3)
Analysis of discrete time signals and systems. Design and implementation of digital filters and efficient algorithms both for the discrete Fourier transform and for convolution. Prerequisite: ELEC 431. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ELEC 532(S)  SPECTRAL ANALYSIS (3-0-3)
Survey of classical and modern techniques for characterizing the frequency content of signals. Includes review of random processes and linear algebra, Fourier transform-based methods and the periodogram, parametric techniques such as autoregressive (AR) and autoregressive moving average (ARMA) modeling, nonparametric techniques (e.g., minimum variance and eigenspace methods), and time-varying spectral analysis. Also offered as STAT 586. Prerequisites: ELEC 401 and 430. Instructor: Staff

ELEC 533(F)  INTRODUCTION TO RANDOM PROCESSES AND APPLICATIONS (3-0-3)
Review of basic probability and the formulation, analysis, representation, and application of some standard random processes. Includes sequences of random variables, random vectors and estimation, basic concepts of random processes, random processes in linear systems, expansion of random processes, Wiener filtering, spectral representation of random processes, and white-noise integrals. Also offered as CAAM 583 and STAT 583. Prerequisite: ELEC 331. Instructor: Staff

ELEC 534(F)  WIRELESS COMMUNICATIONS (3-0-3)
Graduate course on wireless and mobile communication systems, with an emphasis on understanding the unique characteristics of these systems—their analysis and design. Topics include: cellular principles, mobile radio propagation and path loss, characterization of multipath fading channels, modulation and equalization techniques for mobile radio systems, multiple (media) access, Code Division Multiple Access (CDMA) system design, and cellular system capacity. Instructor: Aazhang

ELEC 535(S)  INFORMATION AND CODING THEORY (3-0-3)
Introduction to information theory concepts and basic theorems of channel coding and source coding. Includes techniques of channel coding, parity check codes, an introduction to algebraic coding theory, convolutional codes, and variable-length source coding. Prerequisite: ELEC 331. Instructor: Staff

ELEC 537(F)  DESIGN AND CONTROL OF COMPUTER NETWORKS (3-0-3)
Graduate-level introduction to fundamental concepts for design and control of computer networks. Topics include medium access, routing, traffic modeling, congestion control, quality-of-service, scheduling, and multicasting. Concepts are applied to state-of-the-art systems and protocols such as current and future Internet architectures. Corequisite: ELEC 533. Not offered 2001–2002. Instructor: Knightly

ELEC 538(F)  ADVANCED TOPICS IN COMPUTER NETWORKING (3-0-3)
Survey of research issues in computer networking including quality of service, wireless networking, scheduling, performance modeling, network control algorithms, and novel architectures. Prerequisite: ELEC 537. Instructor: Knightly

ELEC 539(S)  DIGITAL IMAGE PROCESSING (3-0-3)
Survey of modern techniques for image analysis, processing, and enhancement. Includes two-dimensional system and transform theory, sampling, linear and nonlinear filtering, feature extraction, compression and coding, and imaging systems. Prerequisite: ELEC 431 or 531. Instructor: Staff

ELEC 540(S)  SOURCE CODING AND COMPRESSION (3-0-3)
Review of information theory, scalar quantization, vector quantization, quantizer design algorithms, entropy coding, transform coding, rate-distortion optimization application to image and video coding, wavelet and multi-resolution compression algorithms. Prerequisite: ELEC 533. Instructor: Staff

ELEC 560(S)  LINEAR/NONLINEAR FIBER OPTICS (3-0-3)
A seminar course consisting of lectures, discussions of journal articles, and student presentations on topics in optical fiber propagation, including linear and nonlinear effects. Prerequisite: ELEC 306. Offered alternate years. Instructor: Young

(F) = fall; (S) =
ELEC 561 (S)  TOPICS IN SEMICONDUCTOR MANUFACTURING (3-0-3)
Study of advanced methods for simulation and control of the fabrication of modern integrated
circuits. Includes quality and reliability assurance. Prerequisite: ELEC 462. Instructor: Wilson

ELEC 563 (F)  INTRODUCTION TO SOLID-STATE PHYSICS I (3-0-3)
Includes an introduction to the fundamental concepts of crystalline solids (e.g., crystal struc-
ture, the band theory of electrons, and lattice vibration theory). Also offered as PHYS 563.
Instructor: Wilson

ELEC 564 (S)  INTRODUCTION TO SOLID-STATE PHYSICS II (3-0-3)
Continuation of PHYS 563. Includes the scattering of waves by crystals, transport theory, and
magnetic phenomena. Also offered as PHYS 564. Instructor: Staff

ELEC 566 (S)  PHYSICAL ELECTRONICS PROJECTS (hours variable)
Special projects in optics developed in collaboration with and supervised by a faculty member,
generally using the optics teaching laboratory, usually culminating in a written report and oral
presentation. Permission of instructor required. Instructor: Staff

ELEC 568 (F)  LASER SPECTROSCOPY (3-0-3)
Introduction to the theory and practice of laser spectroscopy as applied to atomic and molecular
systems. The course covers fundamentals of spectroscopy, lasers and spectroscopic light sciences,
high-resolution and time-resolved laser spectroscopy, and numerous applications of laser spectro-
copy in physics, chemistry, environmental science, and medicine. Instructor: Tittel

ELEC 569 (F)  ULTRAFAST OPTICAL PHENOMENA (3-0-3)
Covers the generation, propagation, and measurement of short laser pulses and of duration less
than one picosecond. Concepts include mode locking, the effects of dispersion, optical pulse
amplification, and time-domain nonlinear optical phenomena. Intended as an introduction to
ultrafast phenomena for graduate students or advanced undergraduates; a basic understanding of
electromagnetic waves and quantum mechanics is assured. Instructor: Mittleman

ELEC 580 (F)  ADVANCED NEURONAL MODELING AND
NETWORKS (3-0-3)
Introduction to mathematical techniques used in modeling neurons and neural systems. Includes
review of membrane ion channel kinetics, the mathematical characterization of parts of the neuron
(e.g. soma, axon, and dendritic tree), vertebrate and invertebrate neuron models, and models of
volume conduction of activity in the medium surrounding the axon. Emphasis on neuron models
exhibiting pacing and bursting activity important in central pattern generation. Introduction to
natural and artificial neural networks, as well as neuromorphic systems designed using analog
CMOS technology. Guest lecturers in selected application areas. Prerequisite: permission of
instructor. Also offered as BIOE 580. Instructor: Clark

ELEC 581 (S)  CARDIOVASCULAR DYNAMICS (3-4-4)
Analysis of properties and function of the cardiovascular system. The course begins with a com-
prehensive review of cardiac electrophysiology followed by an introduction to the classical forward
and inverse problems in electrocardiography, cardiac potential mapping, the pathophysiology of
abnormal cardiac rhythms, artificial cardiac pacing, and defibrillation. The course continues with
a review of ventricular mechanics; arterial hemodynamics; the coronary, pulmonary, and cerebral
circulations; and the nervous (autonomic) control of the circulation. Therapeutic ventricular assist
devices are discussed as well as the computer-controlled infusion of vasoactive drugs. An intern-
ship project with an engineer or life scientist working in the Texas Medical Center or UTMB at
Galveston is required. Also offered as BIOE 581. Prerequisites: ELEC 401, 436, 481, and permis-
sion of instructor. Instructors: Clark, Khoury

ELEC 590  SPECIAL PROJECTS (hours variable)
Theoretical and experimental investigations under staff direction. May be repeated for up to 6
hours of credit.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ELEC 591(F)  FOURIER OPTICS (3-0-3)
Survey of optical diffraction and image formation using the technique of Fourier analysis. Both monochromatic and polychromatic light will be considered. Optical systems and system elements such as lenses, waveguides, gratings, and interferometers are analyzed. Applications to holography, integrated optics, and fiber optics are considered. Prerequisite: PHYS 201. Instructor: Staff

ELEC 595(S)  MICROLITHOGRAPHY (3-0-3)
Graduate level introduction to fundamental concepts of optical microlithography. Topics include imaging and wavefront engineering techniques, wafer stepper technologies, photomask fabrication procedures and limitations, metrology methods, and optical lithography modeling. Instructor: Tittel

ELEC 599  FIRST-YEAR GRADUATE PROJECTS (0-6-6)
Supervised project required of all first-year graduate students in the M.S./Ph.D. program. Prerequisite: enrollment in the M.S./Ph.D. program

ELEC 601(F)  RESEARCH ETHICS AND PROFESSIONALISM SEMINAR (3-0-3)
Focuses on the gray issues of ethical and professional conduct all researchers will encounter in their careers. Use of case studies where appropriate to discuss issues such as confidentiality of information learned in peer review, conflict of interest, ownership of data or programs produced by one person with support from another, and when a collaborator should be a coauthor on a paper. Discussion of some academic professionalism issues, such as the relationships between graduate students, research staff, junior faculty, and senior faculty. Also offered as CAAM 601 and COMP 601. Instructors: Dennis, Jump

ELEC 603 (F)  TOPICS IN MICRO- AND NANO-PHOTONICS
This is a graduate seminar where a variety of technologically current areas in photonics will be studied. The main topics include: guided wave optics; integrated optics, devices, and interconnects; near field optics, microscopy and sensing; nanoparticles and their optical properties; photonic crystals and arrays. Format will be a combination of lectures and student presentations. A design or simulation project will also be part of the coursework and student presentations. Instructor: Halas

ELEC 630(S)  ADVANCED TOPICS IN TELECOMMUNICATIONS (3-0-3)
Lectures on telecommunications by Rice faculty, scientists from Bell Northern Research, and guest speakers. Includes radio and optical fiber data networks, spread spectrum signaling, error control coding, and time-division, frequency-division, and code-division multiple-access systems, as well as collision resolution algorithms, stability and throughput analysis, routing, flow control, switching, and buffering, with examples from operational telecommunication systems. Prerequisite: ELEC 430. Instructor: Staff

ELEC 631(S)  ADVANCED DIGITAL SIGNAL PROCESSING (3-0-3)
Seminar of advanced topics in digital signal processing. Includes time-varying systems, multidimensional signal processing, and other topics of current interest. Individual projects required. Prerequisites: ELEC 431 and ELEC 531.

ELEC 645(S)  THIN FILMS (3-0-3)
Deposition, characterization, and evaluation of the electronic, magnetic, and mechanical properties of thin films will be discussed. Special problems associated with the application of conventional bulk material characterization techniques to the case of thin films will be considered. The memory arrays, surface acoustic wave devices, optical waveguides and modulators, and microelectromechanical systems will be covered. Some of the specific deposition techniques to be included are rf magnetron sputtering, laser ablation, and molecular beam epitaxy. X-ray diffraction, Raman spectroscopy, nuclear reaction spectroscopy, scanning electron microscopy, and secondary ion mass spectroscopy will be among the characterization techniques to be studied. Also offered as MSCI 645. Instructor: Staff

(F) = fall; (S) =
ELEC 685 (F) FUNDAMENTALS OF MEDICAL IMAGING (3-0-3)
The course will introduce basic medical imaging modalities, such as X-ray, CT, and MRI, used to identify the anatomy of human organs, as well as other modalities, such as PET, SPECT, fMRI and MEG, specifically developed to localize brain function. The course includes visits to clinical sites. Also offered as BIOE 685 and COMP 685. Instructor: Anvari

ELEC 694(S) ADVANCED TOPICS IN COMPUTER SYSTEMS (1-0-1 each semester)
May be repeated for credit. Prerequisite: permission of instructor. Instructor: Sinclair

ELEC 695(F) ADVANCED TOPICS IN COMMUNICATIONS AND STATISTICAL SIGNAL PROCESSING (3-0-3)
Seminar on communications and statistical signal processing. Content varies from year to year. May be repeated for credit. Not offered every year. Prerequisite: permission of instructor.

ELEC 696 COMPUTER ARCHITECTURE SEMINAR (1-0-1)
Discussion of recent research papers in computer architecture and current research at Rice. Prerequisite: permission of instructor. Instructor: Staff

ELEC 697(F) INTRODUCTION TO FRACTAL PROCESSES (3-0-3)
Balance of an introduction to the mathematical background of fractals and multifractals with applications of theoretical and practical importance, such as Internet traffic modeling and image processing. The course is kept as simple as possible, making it accessible to a wide audience. Prerequisites: ELEC 533 or ELEC 331. Instructor: Staff

ELEC 760 BAYLOR–RICE M.D./PH.D. PROGRAM (hours variable)
Prerequisite: permission of department.

ELEC 800 DISSERTATION RESEARCH (hours variable)
Ph.D. dissertation research. May be repeated for up to 15 hours of credit.

Engineering (ENGI)

The George R. Brown School of Engineering

ENGI 201(F) AN INTRODUCTION TO ENGINEERING DESIGN (3-3-4)
Hands-on introduction to engineering design. Includes the design and construction of a functional robot by a team of students, using skills developed in the course, plus programming of the robot to perform simple tasks. Possibly limited enrollment. Open to both majors and nonmajors in engineering. Also offered as ELEC 201. Instructor: Young

ENGI 302(F) ETHICAL DECISION-MAKING FOR ENGINEERS (3-0-3)
A review of ethical issues encountered in the conduct of work as a professional engineer. Impact of personal and cultural value systems on the effectiveness of individual engineers, project teams, and technical organizations employed in diverse business environments will be explored. Instructor: Moore

ENGI 303(F) ENGINEERING ECONOMICS AND MANAGEMENT (3-0-3)
Introduction to the evaluation of alternative investment opportunities with emphasis on engineering projects and capital infrastructure. Time-value-of-money concepts are developed in the context of detailed project evaluation and presentations. In addition, concepts and applications of risk analysis and investment under uncertainty are developed. Also offered as CIVI 322. Instructor: Segner

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGI 305  NEW VENTURE COMMUNICATION FOR SCIENCE AND ENGINEERING (1-0-1)
Teaches student involved in research or design courses in science or engineering how to write an early-stage business plan and give 10 minute financing presentations. Prerequisite: registered in a research or design course or permission of instructor. Also offered as NSCI 305. Instructor: Ferrill

ENGI 321  THE PROFESSIONAL ENGINEER: ROLES AND RESPONSIBILITIES (3-0-3)
An examination of the engineer at work in society through a case study investigation of the processes by which tasks are accomplished and the roles and corresponding responsibilities assumed by engineers in assuring the effectiveness of their efforts. Prerequisite: ENGI 302. Course may be repeated for credit. Instructor: Moore

English (ENGL)
The School of Humanities

ENGL 101(F)  FRESHMAN SEMINAR (3-0-3)
ENGL 102(S)  Analysis and discussion of literary texts in poetry, drama, prose, and fiction. Includes frequent submission of essays. Instructors: Staff, Minter

ENGL 103(F)  INTRODUCTION TO ARGUMENTATION AND ENGL 104(S)  ACADEMIC WRITING (3-0-3)
Prepares students for writing in academic disciplines. Topics: identifying argument patterns, using on-line databases, practicing heuristic techniques, revising and editing papers with the conventions of formal written English, and using MLA and APA documentation systems. Prerequisite: permission of instructor. Instructors: Driskill, Tobin

ENGL 121(F)  ADVANCED PLACEMENT CREDIT IN ENGLISH (3-0-3)
Course indicating credit given for Advanced Placement in English.

ENGL 122(F)  ADVANCED PLACEMENT CREDIT IN ENGLISH: CRITICAL READING IN LITERATURE (3-0-3)
Course indicating credit given for Advanced Placement in English: Critical Reading of Literature.

ENGL 201(F)  INTRODUCTION TO CREATIVE WRITING: FICTION (3-0-3)
Instructor: Staff

ENGL 210(F)  MAJOR BRITISH WRITERS: CHAUCER–1800 (3-0-3)
Readings in major British authors of the Middle Ages, the Renaissance, and the 18th century. Required for English majors. Instructors: Browning, Ellenzweig

ENGL 211(S)  MAJOR BRITISH WRITERS: 1800–PRESENT (3-0-3)
Readings in major British authors of the 19th and 20th centuries. Required for English majors. Instructors: Browning, Logan

ENGL 215  WORDS IN ENGLISH: STRUCTURE, HISTORY, AND USE (3-0-3)
Introduction to the study of the internal structure of English words and the nature and history of the English vocabulary. Includes measures to enhance awareness of the rich lexical resources of the language and to facilitate acquisition of scientific, technical, and humanistic vocabulary. No previous linguistics background required. Also offered as LING 215. Instructor: Staff

(F) = fall; (S) =
ENGL 260  INTRODUCTION TO THE STUDY OF AMERICAN LITERATURE (3-0-3)
Introductory course in American literature. Required for English majors. Instructors: Levander, Derrick, Comer

ENGL 266(S)  ETHNIC LITERATURES OF 20TH-CENTURY AMERICA (3-0-3)
Instructor: Comer

ENGL 270  ASPECTS OF MODERN LITERATURE (3-0-3)
Survey of modern and postmodern literature and thought. Instructor: Fultz

ENGL 280(F)  CONTEMPORARY THEMES IN ASIAN AMERICAN LITERATURE (3-0-3)
This course is a thematic treatment of contemporary issues raised in Asian American fiction and film. Themes such as self-discovery and cultural identity formation focus on variations of the concept of the “Other.” Lectures, readings, papers, and class discussion will explore the areas of genderized, exoticized and eroticized roles—“Asianness” in the distant and recent past in the context of a “Western” cultural identity being adopted, assimilated, reinvented and/or rejected. Also offered as ASIA 280/380. Instructor: Yeh

ENGL 300  SURVEY OF BRITISH WOMEN WRITERS FROM 1400–1900 (3-0-3)

ENGL 301(F)  FICTION WRITING (3-0-3)
ENGL 302(S)  DRAMATIC WRITING (3-0-3)
The emphasis, depending on individual students, will be on the writing of drama in one or several of the chief modes of the performing arts: plays, films, musicals, opera—even dance. Prerequisite: permission of instructor. May be repeated for credit. Instructor: Mitchell

ENGL 304  POETRY WRITING (3-0-3)
Extensive reading in modern poetry as well as regular practice in the writing of various forms will be required. May be repeated for credit. Instructor: Staff

ENGL 305(S)  PERSONAL ESSAY (3-0-3)
Writing and reading personal essay and autobiography. Instructor: Recknagel

ENGL 306(S)  EXPOSITORY PROSE (3-0-3)
A course in the composition of personal essays. Instructor: Tobin

ENGL 307  MEDICAL/TECHNICAL COMMUNICATION (3-0-3)

ENGL 308  ENGINEERING COMMUNICATION (hours variable)
Course consists of three parts, each five weeks long: part 1—principles of analyzing audiences, organizing information, and choosing communication strategies; part 2—document design and editing; and part 3—oral presentations and graphics. Some assignments linked to topics from engineering courses. Must be concurrently enrolled in one or more engineering courses. Limited enrollment. Not offered 2001–2002.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 310 **BUSINESS AND PROFESSIONAL COMMUNICATION** (3-0-3)

ENGL 311 **MEDIATEAL WOMEN WRITERS** (3-0-3)
This course will examine the most significant medieval European women authors from the 10th through the 17th centuries, from Italy and Germany to France, England, Austria, and Spain. Using a variety of techniques and Media to access their work—feminist and gender theory, reader-response theory, staging and performance, films, recordings, slides, journal entries and personal criticism, etc.—we will combine close reading with a focus on intertextuality. In an attempt to recover a feminized literary tradition. All works will be read in translation. Also offered as MDST 300 and WGST 300. Refer to course web site at http://www.ruf.rice.edu/~jchance/mewom.htm. *Instructor: Chance*

ENGL 312 **SURVEY OF OLD ENGLISH LITERATURE: GENDER AND POWER IN OLD ENGLISH** (3-0-3)

ENGL 313 **BEOWULF** (3-0-3)
Also listed as MDST 313. Not offered 2001–2002.

ENGL 314 **SURVEY OF MIDDLE ENGLISH LITERATURE** (3-0-3)

ENGL 315 **INTRODUCTION TO MEDIEVAL CULTURE, 1000–1492** (3-0-3)
Also listed as MDST 315. Not offered 2001–2002.

ENGL 316 **CHAUCER** (3-0-3)
Focus will be primarily on The Canterbury Tales, their philosophical and material culture, and their dramatic and literary potential. Also offered as WGST 305 and MDST 316. Refer to course website http://www.ruf.rice.edu/~jchance/chaucer2.html. Not offered 2001–2002.

ENGL 317 **ARTHURIAN LITERATURE** (3-0-3)
A survey of the origins and development of the Arthurian legend from the earliest chronicles in the sixth century and later medieval French, Welsh, Irish, and English Arthurian poems to modern adaptations of Arthurian material, including films. Also offered as WGST 301 and MDST 317. Refer to course website http://www.ruf.rice.edu/~jchance/arthurian2.html. Not offered 2001–2002.

ENGL 318(S) **J.R.R. TOLKIEN** (3-0-3)
J. R. R. Tolkien, an Oxford professor and eminent medievalist now recognized as one of the greatest writers of the 20th century for his masterpiece, *Lord of the Rings* (written ca. 1930s–early 1950s), wrote out of what he knew about Old English, Old Norse, and Middle English literature. This course will trace the tension between the exile (wraecca) and the community; otherness and heroism; identity and marginalization; and revenge and forgiveness. To locate *Lord of the Rings* within a broader historical and literary context, we will read *The Hobbit, The Silmarillion*, and Tolkien’s works on fantasy and mythmaking. “Mythopoiea,” “Leaf by Niggle,” and “On Fairy-Stories.” Refer to course website http://www.ruf.rice.edu/~jchance/tol2000.html. Also listed as MDST 318. Limited enrollment. See instructor. *Instructor: Chance*
ENGL 319  SURVEY OF 16TH-CENTURY BRITISH LITERATURE (3-0-3)
The Golden Age of British literature, read in the context of profound upheavals in the Church and the Monarchy; of changes in family structure, gender relations, and sexuality; and of the growth of a new sense of self in the early modern world. We will look at the works of the famous courtly poets (Wyatt, Sidney, Spenser, Shakespeare) and also at some poems, fictions, diaries, marriage manuals, travel narratives, anatomy books, ballads, and jest books written and read by the Amiling sort. We will consider artifacts as well as texts: maps, portraits, clothing, and children’s toys. Not offered 2001–2002.

ENGL 320  SHAKESPEARE ON FILM (3-0-3)
In this course we will examine both the text of selected Shakespearean plays and films made from them, focusing on the difference between film and drama. What happens to a Shakespearean play when it is converted to film? How must it be changed in order to work successfully in this medium? Plays studied in this class vary from year to year, but they are likely to be drawn from the following list: Richard III, Twelfth Night, Henry V, Romeo and Juliet, Othello, A Midsummer Night’s Dream, Macbeth, and Hamlet. Permission of instructor required. Limited enrollment. Not offered 2001–2002.

ENGL 321(F)  SHAKESPEARE (3-0-3)
ENGL 322(S)  Representative plays, including tragedies, comedies, histories, and romances. Instructors: (F) Grob, (S) Skura

ENGL 323  RENAISSANCE DRAMA (3-0-3)

ENGL 324  OLD ENGLISH (3-0-3)
This course will be a combination of Old English Grammar and readings in Old English. Also offered as LING 312. Not offered 2001–2002. Instructor: Mitchell

ENGL 326  SURVEY OF 17TH-CENTURY BRITISH LITERATURE (3-0-3)

ENGL 328(F)  MILTON (3-0-3)
Major poems and prose of John Milton. Instructor: Snow

ENGL 331  RESTORATION LITERATURE: DRAMA (3-0-3)

ENGL 332  SURVEY OF 18TH-CENTURY BRITISH LITERATURE, EXCLUDING FICTION (3-0-3)

ENGL 333(F)  SURVEY OF 18TH-CENTURY BRITISH FICTION (3-0-3)
This course explores the emergence and consolidation of the English novel and its dynamic relationship to many other 18th-century legacies: the modern individual, capitalism, civil society, the middle class, democracy, and colonialism. We will look at the novel’s thematic and formal features; its role in the production of class ideology and national identity; its attempts to define the private and public spheres; and its multiple and diverse mutations from travel adventure to domestic fiction and from pornography to the gothic. Instructor: Joseph

ENGL 336  TOPICS IN GOTHIC LITERATURE (3-0-3)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 337  SURVEY OF EARLY 19TH-CENTURY BRITISH FICTION (3-0-3)

ENGL 338  SURVEY OF LATE 19TH-CENTURY BRITISH FICTION (3-0-3)

ENGL 339(S)  SURVEY OF BRITISH ROMANTICS: POETRY (3-0-3)
The major writings of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Instructor: Grob

ENGL 341  SURVEY OF VICTORIAN LITERATURE, EXCLUDING FICTION (3-0-3)

ENGL 342(F)  SURVEY OF VICTORIAN FICTION (3-0-3)
The novel from Austen to Hardy. Also offered as WGST 372. Instructor: Michie

ENGL 346(S)  SURVEY OF 20TH-CENTURY BRITISH FICTION (3-0-3)
Instructor: Doody

ENGL 347  SURVEY OF BRITISH POETRY: 1900–1950 (3-0-3)

ENGL 348  SURVEY OF BRITISH POETRY: 1950–PRESENT (3-0-3)

ENGL 349  SURVEY OF EUROPEAN FICTION: CERVANTES TO 1900 (3-0-3)

ENGL 350  SURVEY OF EUROPEAN FICTION: 20TH CENTURY (3-0-3)

ENGL 351  SURVEY OF EUROPEAN MODERN DRAMA: IBSEN–1940 (3-0-3)

ENGL 352  SURVEY OF EUROPEAN DRAMA: 1940–PRESENT (3-0-3)

ENGL 355(F)  MODERN SHORT FICTION FROM BALZAC TO BORGES (3-0-3)
A study of great works of American and European short fiction from the late 18th through the 20th century. Focus on the particular anxieties and the particular pleasures of the modern period, with readings from Kleist, Balzac, Poe, Hawthorne, Gogol, Melville, Maupassant, LeFanu, Kafka, Faulkner, O’Connor, Calvino, and Borges. Also offered as FREN 355. Instructor: Harter

ENGL 358  INTRODUCTION TO FILM AND AMERICAN CULTURE (3-0-3)

ENGL 359(F)  ADVANCED CONTEMPORARY THEMES IN ASIAN AMERICAN LITERATURE (3-0-3)
Also listed as ASIA 380. Instructor: Yeh

(F) = fall; (S) =
ENGL 360  SURVEY OF AMERICAN LITERATURE TO 1860  (3-0-3)  
Instructor: Derrick

ENGL 361(F)  SURVEY OF AMERICAN LITERATURE: 1860–1910  (3-0-3)  
Instructor: Levander

ENGL 362(F)  SURVEY OF AMERICAN FICTION: 1910–1940  (3-0-3)  
Instructor: Morris

ENGL 363  SURVEY OF AMERICAN FICTION: 1940–PRESENT  (3-0-3)  

ENGL 364(S)  SURVEY OF AMERICAN POETRY: 1900–1960  (3-0-3)  
Instructor: Minter

ENGL 365  SURVEY OF AMERICAN POETRY: 1960–PRESENT  (3-0-3)  

ENGL 366  TOPICS IN AMERICAN LITERATURE  (3-0-3)  

ENGL 367  AMERICAN ECOFEMINISM  (3-0-3)  

ENGL 368(F)  MYTHOLOGIES  
This interdisciplinary course will introduce students to a variety of world mythologies and mythmakers, from the beginnings to the modern period. Designed to explore the relationship between a culture and its myths as expressed in specific literary or religious works, “Mythologies” offers a means of understanding cultural difference as well as the fundamental topics of human desire and aspiration (creation and birth, the purpose of life, heroic struggle against nature and death, the hope for rebirth, etc.). Included mythologies: Babylonian, Sumerian, Hindu, Egyptian, Greek, Roman, Irish, Welsh, Old Norse, Anglo-Saxon, Finnish, Mayan, Hopi, modern (Borges, Philip Glass). Also listed as MDST 368 and WGST 368. Instructor: Chance

ENGL 369(F)  LITERATURE OF THE AMERICAN WEST: WOMEN IN THE WEST  (3-0-3)  
Also offered as WGST 329. Instructor: Comer

ENGL 370(F)  SURVEY OF AFRICAN AMERICAN LITERATURE  (3-0-3)  
Instructor: Fultz

ENGL 371  FOLKSONG AND FOLKLORE  (3-0-3)  

ENGL 372  SURVEY OF CONTEMPORARY CHICANO/A LITERATURE: FROM VILLARREAL'S POCHO (1959) TO CISNEROS'S HOUSE ON MANGO STREET (1988)  (3-0-3)  
This mixed-genre course will focus on the Chicano movement, the Chicano renaissance, and their alternative literary and mythic traditions. The readings and discussions will be framed by secondary materials that feature the following topics: cultural nationalism, bicultural identity, resistance theory, and Chicano feminism. Finally, attention will be given to the different colonial and regional histories that comprise Chicano/a literature, from the midwest to Texas, and from New Mexico to California. Not offered 2001–2002.

ENGL 373  SURVEY OF CHICANO/A POETRY  (3-0-3)  

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 374  SURVEY OF THE CHICANO/A NOVEL (3-0-3)  

ENGL 375  LITERATURE AND FILM (3-0-3)  

ENGL 376  LITERATURE AND MUSIC (3-0-3)  

ENGL 377(S)  LITERATURE AND ART (3-0-3)  
Instructor: Snow

ENGL 378(F)  LITERATURE AND THE ENVIRONMENT (3-0-3)  
Instructor: Slovic

ENGL 379(S)  INTRODUCTION TO THIRD-WORLD LITERATURE (3-0-3)  
This course primarily surveys fiction, poetry, drama, and film (in English) from areas of the world now known as the Third World. The course asks students to explore, among other things, the ways in which a “people without history” use literature as a medium to represent their historical experience of colonialism to define a national agenda vis-a-vis (and independently of) the West and to find new relationships between text and context. Instructor: Joseph

ENGL 380(S)  20TH-CENTURY WOMEN WRITERS: SEX, GENDER AND MODERNISM (3-0-3)  
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 327. Instructor: Lamos

ENGL 381  FEMINISM AND NATIONALISM (3-0-3)  

ENGL 382(S)  FEMINIST LITERARY THEORY: FEMINIST FILM THEORY (3-0-3)  
Also offered as WGST 480. Instructor: Lurie

ENGL 383  FEMINIST ISSUES: WITCHES, SAINTS, SOLDIERS, AND SHREWS—WOMEN’S VOICES IN THE RENAISSANCE (3-0-3)  
Also offered as WGST 337. Not offered 2001–2002.

ENGL 384  THE FEMALE BODY IN CONTEMPORARY CULTURE (3-0-3)  
Limited to juniors and seniors only. Also offered as WGST 233. Not offered 2001–2002.

ENGL 385  DETECTIVE FICTION (3-0-3)  

ENGL 386  CHICANO POETRY (3-0-3)  

ENGL 387(S)  CULTURAL STUDIES: TRANSITIONS AND TRANSLATIONS: MEXICAN AMERICAN LITERATURE (3-0-3)  
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 387. Instructor: Aranda

(F) = fall; (S) =
ENGL 388(S)  GENERATION X IN LITERATURE AND CULTURE  (3-0-3)
An interdisciplinary survey of Generation X literature, music, film, and politics. Also offered as
WGST 388.  Instructor: Comer

ENGL 389  STUDIES IN MODERNISM  (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 390(F)  INTRODUCTION TO THEATRE  (3-0-3)
Also offered as THEA 303.  Instructor: Ramont

ENGL 391  WOMEN FILMMAKERS: A 20TH-CENTURY RETROSPECTIVE  (3-0-3)
Filmmaking is celebrating its first 100 years. Women’s contributions were significant throughout
and deserve a particular reviewing to help widen the established film canon. To assess women
directors of the 20th century and their use of film language should provoke not only debates among
feminists but also among filmgoers of other genders and persuasions. The course will concentrate
on films by European and American women directors, taking into account historical pioneering,
cultural identities, aesthetic particularities, gender commitment, subject orientations, and post-
feminist attempts. Importance will also be given to the contexts and conditions of women’s film
production. Class discussions will be in English, and all films viewed will be in English or with
English subtitles. German majors are expected to concentrate on a final paper on women directors
in German Cinema. Also offered as GMAN 402 / GERM 378, GERM 391, and WGST 358. Not

ENGL 394  STRUCTURE OF THE ENGLISH LANGUAGE  (3-0-3)
Introduction to modern English grammar, phonology, and semantics. Also offered as LING 394.

ENGL 395  HISTORY OF THE ENGLISH LANGUAGE  (3-0-3)
Survey of 6,000 years of language history. Includes the phonological, morphological, syntactic,
and semantic history of the English language from its Indo-European origins, through the Anglo-
Saxon and Middle English periods, and up to the present day. Also offered as LING 395 and

ENGL 396  LANGUAGE AND PHILOSOPHY IN LITERATURE  (3-0-3)

ENGL 397  TOPICS IN LITERATURE: TEXAS LITERATURE  (3-0-3)
Different topics may be repeated for credit.  Instructor: Derrick

ENGL 398  SURVEY OF LITERARY CRITICISM: HISTORY  (3-0-3)

ENGL 399  SURVEY OF LITERARY CRITICISM: THEORY
(3-0-3)

ENGL 401(F)  ADVANCED CREATIVE WRITING: FICTION  (3-0-3)
ENGL 402(S)
May be repeated for credit. Prerequisite: permission of instructor.  Instructor: Staff

ENGL 403  ADVANCED CREATIVE WRITING: DRAMA  (3-0-3)
May be repeated for credit. Not offered 2001–2002.

ENGL 404  ADVANCED CREATIVE WRITING: POETRY  (3-0-3)
May be repeated for credit. Prerequisite: ENGL 304. Limited enrollment.  Instructor: Wood

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 412  MEDIEVAL STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also listed as MDST 412. Not offered 2001–2002.

ENGL 415  CHRISTINE DE PIZAN IN 15TH-CENTURY ENGLAND (3-0-3)
The Franco-Italian woman poet Christine de Pizan was translated into English during the 15th century along with other poems dealing with the subject of female experience and the female hero, such as Jean d’Arras’s “Melusene” and Boccaccio’s “Concerning Famous Women.” This seminar will examine these and other English poems about women as early as Chaucer’s “Legend of Good Women” and as late as the “Assembly of Ladies,” “Floure and the Leafe,” “The Assembly of Gods,” and Thomas Hoccleve’s “Letter of Cupid.” Also listed as WGST 406 and MDST 406. Refer to course website http://www.ruf.rice.edu/~jchance/christin.html. Not offered 2001–2002.

ENGL 419  16TH-CENTURY BRITISH LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 426  17TH-CENTURY BRITISH LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 432  18TH-CENTURY BRITISH LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 437  19TH-CENTURY BRITISH LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 439  BRITISH ROMANTICS (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 441  VICTORIAN STUDIES (3-0-3)
Topics vary from year to year. Also offered as WGST 405. Not offered 2001–2002.

ENGL 442(S)  VICTORIAN STUDIES: REPRESENTING SEXUALITY IN VICTORIAN CULTURE: PROSE, POETRY, ART, DRAMA AND ADVERTISING (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 443. Instructor: Logan

ENGL 446  20TH-CENTURY BRITISH LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 449  EUROPEAN STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 457  20TH-CENTURY IRISH LITERATURE (3-0-3)
How is Irish literature different from English? This course addresses the question by reading the full range of modern Irish literature, from Yeats, Joyce, and Beckett to Heaney, Bolan, and Friel. We will also include discussion of Irish as a postcolonial literature. Not offered 2001–2002.

(F) = fall; (S) =
ENGL 460  PRE-20TH-CENTURY AMERICAN LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 461  19TH-CENTURY AMERICAN LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 462  20TH-CENTURY AMERICAN LITERATURE STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 462. Not offered 2001–2002.

ENGL 468  NATIVE AMERICAN LITERATURE (3-0-3)

ENGL 469  LITERATURE OF THE AMERICAN WEST (3-0-3)

ENGL 470(F)  TOPICS IN AFRICAN AMERICAN LITERATURE: (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 453. Instructor: Fultz

ENGL 472  CHICANO/A AUTOBIOGRAPHY (3-0-3)

ENGL 473  CHICANO/A POETRY (3-0-3)

ENGL 474  CHICANO/A NOVEL IN THE 1990S (3-0-3)

ENGL 475  MODERN DRAMA ON FILM AND IN PERFORMANCE (3-0-3)

ENGL 478  LITERATURE AND THE ENVIRONMENT (3-0-3)

ENGL 479  GENDER, WAR, AND REPRESENTATION IN MODERN FRANCE AND ENGLAND (3-0-3)

ENGL 480  FEMINIST ISSUES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 481  INTRODUCTION TO FEMINIST LITERARY THEORY AND CRITICISM (3-0-3)
This course begins with an overview of themes and practices in feminist literary theory and criticism from the 1970s to the present. Then we will turn our attention to recent work that engages the pressing concerns of feminist theory in the 1990s; work that investigates the shape of gendered subordination; and strategies for feminist agency in the contexts both of cultural diversity and of particular women’s negotiation of race, class, sexuality, and national identifications (among others). Also offered as WGST 403. Not offered 2001–2002.
ENGL 482  STUDIES IN LITERATURE AND OTHER DISCIPLINES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 483  STUDIES IN LITERARY TYPES (3-0-3)
ENGL 484
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 485  STUDIES IN MODERN LITERATURE (3-0-3)
ENGL 486
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 487(F)  AREA STUDIES: GLOBAL FICTIONS (3-0-3)
ENGL 488
This course examines narrative fiction that represent various attempts to grasp the global—as an idea, a cognitive map, a pattern of movement, a series of events, a montage of images, etc. We will read novels alongside a number of essays on literary and cultural theory, especially work that connects the role of narratives, language and representation to broader debates about capitalism, transnational culture, immigration, slavery, revolution and international feminism. The course will have a historical as well as a broad geographical reach and may include works by Michael Ondaatje, Don Delillo, Barbara Kingsolver, Salman Rushdie, Nuruddin Farah, Ahdaf Soueif and Michelle Cliff. Topics vary from year to year. Different topics may be repeated for credit. Instructor: Joseph

ENGL 489  STUDIES IN MAJOR AMERICAN AUTHORS:
ENGL 490(S)  POE AND HAWTHORNE
Topics vary from year to year. Different topics may be repeated for credit. Instructor: Derrick

ENGL 491  MAJOR BRITISH AUTHORS (3-0-3)
ENGL 492
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 493  DIRECTED READING (3-0-3)
ENGL 494  SENIOR SEMINAR (3-0-3)
ENGL 495  SENIOR THESIS (3-0-3)

ENGL 496  TOPICS IN LITERATURE: THE CITY IN LITERATURE
ENGL 497(S)  1880–1920 (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 411. Instructor: Doody

ENGL 498  STUDIES IN LITERARY CRITICISM (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 330. Not offered 2001–2002.

ENGL 499(S)  STUDIES IN LITERARY THEORY:
QUEER THEORY (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 430. Instructor: Lamos

ENGL 500  PROBLEMS IN LITERARY HISTORY (3-0-3)
Topics vary from year to year. Also listed as WGST 310. Different topics may be repeated for credit. Not offered 2001–2002.

(F) = fall; (S) =
ENGL 501  BRITISH AND AMERICAN LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 502  CONTEMPORARY APPROACHES TO COMPOSITION—INTRODUCTION TO COMPOSITION STUDIES (3-0-3)
An introductory survey of research on writing processes, theories of composition, and classroom approaches. Includes teaching composing in computer classrooms and traditional environments. Activities will include research projects with student writers, role-playing, on-line discussion, analysis of video transcripts of student writers working with tutors or writing consultants, textbook evaluation, and workshops. Not offered 2001–2002.

ENGL 506  PROFESSIONAL WRITING (3-0-3)

ENGL 508  MASTER’S THESIS (3-0-3)

ENGL 509  PEDAGOGY (1-0-1)
A one-hour credit course in which graduate students teaching ENGL 101/102 meet to discuss pedagogical approaches and problems. Instructor: Staff

ENGL 510  PEDAGOGY (3-0-3)

ENGL 511(S)  PEDAGOGY (3-0-3)

ENGL 512  OLD ENGLISH AND CONTEMPORARY THEORY (3-0-3)
An introduction to Old English grammar. Readings from selected Old English prose and poetry of the 8th–11th centuries, supplemented by current critical readings relating to feminist and gender theory, semiotics, postmodernism, and ethnic diversity. (Note: may be taken to fulfill one semester of the graduate English language requirement.) Also listed as MDST 472. Not offered 2001–2002.

ENGL 513  BEOWULF (3-0-3)
The entire epic will be read in the original Old English. Not offered 2001–2002.

ENGL 514  MIDDLE ENGLISH LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Refer to course website http://www.ruf.rice.edu/~jchance/me.htm. Not offered 2001–2002.

ENGL 515  CHRISTINE DE PIZAN IN 15TH-CENTURY ENGLAND (3-0-3)
The Franco-Italian woman poet Christine de Pizan was translated into English during the 15th century along with other poems dealing with the subject of female experience and the female hero, such as Jean d’Arras’s “Melusene” and Boccaccio’s “Concerning Famous Women.” This seminar will examine these and other English poems about women as early as Chaucer’s “Legend of Good Women” and as late as the “Assembly of Ladies,” “Floure and the Leafe,” “The Assembly of Gods,” and Thomas Hoccleve’s “Letter of Cupid.” Also offered as WGST 406 and MDST 445. Refer to course website http://www.ruf.rice.edu/~jchance/christin.html. Not offered 2001–2002.

ENGL 516  CHAUCER AND THE SUBVERSIVE OTHER: WOMEN, GENDER, NATION, AND CLASS (3-0-3)
A 14th-century poet who worked for the king as controller of customs and works, Chaucer nevertheless embedded in his poems with sympathetic treatments of women, the commons, homosociality, and otherness as expressed through multicultural indicators expressive of nation and religion. This seminar will explore exemplary treatments of alterity in Chaucer and the complex poetic strategies he chose to conceal his sympathies. Previous topics include “Chaucer and the Learned Tradition.” Also offered as WGST 305 and MDST 417. Refer to course website http://www.ruf.rice.edu/~jchance/chaucer.html. Also see previous course websites http://www.ruf.rice.edu/~jchance/chaucer.html and http://www.ruf.rice.edu/~jchance/medwom.html. Not offered 2001–2002.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 517  MEDIEVAL WOMEN WRITERS (3-0-3)
A survey of major continental European women writers and their works, in translation and in Middle English, from the 5th to the 15th centuries, with attention to feminist, gender, and reader-response theory. Among the mystics, philosophers, scientists, and court-poets will be Hrotsvit of Gandersheim, Heloise, Hildegard of Bingen, Marie de France, Margery Kempe and Julian of Norwich, and Christine de Pizan. Also offered as MDST 417 and WGST 413. Refer to course website http://www.ruf.rice.edu/~jchance/medwom.html. Instructor: Chance

ENGL 518  MEDIEVAL STUDIES SPECIAL TOPICS (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also listed as MDST 478. Not offered 2001–2002.

ENGL 519  16TH-CENTURY BRITISH LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 520  SHAKESPEARE AND DIFFERENCE (3-0-3)

ENGL 521  SHAKESPEARE (3-0-3)

ENGL 522  SHAKESPEARE AND THEORY (3-0-3)

ENGL 523  ELIZABETHAN AND JACOBEAN DRAMA: EARLY MODERN (MOSTLY NON-SHAKESPEAREAN) DRAMA (3-0-3)

ENGL 526(S)  17TH-CENTURY POETRY AND PROSE: WRITING THE SELF IN EARLY MODERN ENGLAND (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Instructor: Skura

ENGL 528  MILTON (3-0-3)
An enriched version of ENGL 328 for graduate students. Additional readings, papers, or meetings to be assigned by the instructor. Instructor: Snow

ENGL 531  RESTORATION LITERATURE (3-0-3)

ENGL 532(F)  18TH-CENTURY BRITISH LITERATURE: ENLIGHTENMENT INSTITUTIONS (3-0-3)
This seminar will examine how the literature of the early English Enlightenment provided a foundation for both modernity and postmodernity. We will attempt to situate the literary and cultural politics of the Enlightenment—from a rejection of tradition to a disavowal of the modern—in a number of its important “institutions”: liberalism, conservatism, feminism, party politics, sex/gender, class, capitalist ideology, colonialism, “authorship,” and the aesthetic. Authors will include Rochester, Dryden, Behn, Astell, Manley, Pope, Gay, Swift, Locke, Hume, Addison, Mandeville, Burke, Johnson, Smith, and others. Topics vary from year to year. Different topics may be repeated for credit. Instructor: Ellenzweig

ENGL 533  18TH-CENTURY POETRY AND SATIRE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 537  19TH-CENTURY BRITISH FICTION (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

(F) = fall; (S) =
ENGL 539  BRITISH ROMANTICS: WORDSWORTH AND KEATS  (3-0-3)
Topics vary from year to year. Instructor: Grob

ENGL 541  VICTORIAN LITERATURE  (3-0-3)

ENGL 542  VICTORIAN FICTION  (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 484. Not offered 2001–2002.

ENGL 543  VICTORIAN POETRY AND PROSE  (3-0-3)

ENGL 546  20TH-CENTURY BRITISH FICTION  (3-0-3)
Topics vary from year to year. Past topics include “Woolf and Joyce.” Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 547  20TH-CENTURY BRITISH POETRY  (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 549  EUROPEAN MODERN DRAMA  (3-0-3)

ENGL 559(F)  AGENCY, CLASS, AND ANXIETY IN 19TH-CENTURY LITERATURE AND CRITICISM  (3-0-3)
Instructor: Derrick

ENGL 560  19TH-CENTURY AMERICAN LITERATURE AND GENDER  (3-0-3)

ENGL 561  JAMES AND HIS CRITICS  (3-0-3)

ENGL 562  MODERN AMERICAN FICTION  (3-0-3)

ENGL 563  CONTEMPORARY LITERATURE  (3-0-3)

ENGL 564(S)  FAULKNER AND CONTEMPORARY THEORY  (3-0-3)
Instructor: Morris

ENGL 565  20TH-CENTURY AMERICAN POETRY  (3-0-3)

ENGL 566  20TH-CENTURY AMERICAN LITERATURE AND CULTURAL STUDIES  (3-0-3)

ENGL 570  AFRICAN AMERICAN STUDIES  (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 572  CHICANO/A STUDIES  (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENGL 575(S) FILM AND THEORY (3-0-3)
_Instructor: Snow_

ENGL 578(F) LITERATURE AND ENVIRONMENT:
ECO CRITICISM (3-0-3)
_Instructor: Slovic_

ENGL 580 WOMEN’S STUDIES (3-0-3)

ENGL 581(S) FEMINISM AND NATIONALISM (3-0-3)
Also listed as WGST 491. _Instructor: Joseph_

ENGL 582 FEMINIST LITERARY THEORY (3-0-3)

ENGL 583 FEMINIST ISSUES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 483. Not offered 2001–2002.

ENGL 587 CULTURAL STUDIES: FEMINISM (3-0-3)
Also offered as HIST 548. Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 591 STUDIES IN LITERATURE AND OTHER DISCIPLINES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 592 STUDIES IN LITERARY TYPES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 593 STUDIES IN MODERN LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 594 AREA STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 595 STUDIES IN MAJOR AMERICAN AUTHORS (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 596 STUDIES IN MAJOR BRITISH AUTHORS (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

ENGL 597 TOPICS IN LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002. _Instructor: Doody_

ENGL 598 LITERARY CRITICISM AND/OR HISTORY (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Not offered 2001–2002.

(F) = fall; (S) =
ENGL 599(F) LITERARY THEORY: WHAT’S LEFT OF THEORY? (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 481. Instructor: Lamos

ENGL 600(F) PROFESSIONAL METHODOLOGY (3-0-3)
Instructor: Lurie

ENGL 601(F) TEACHING PRACTICUM (3-0-3)
ENGL 602(S)
Open only to graduate students serving as teaching assistants for courses in English or the humanities.

ENGL 603(F) TEACHING OF LITERATURE AND COMPOSITION
ENGL 604(S) (3-0-3)
Open only to graduate students teaching ENGL 101, 102, and 103.

ENGL 605(F) THIRD-YEAR WRITING WORKSHOP (3-0-3)
Instructor: Snow

ENGL 621(F) DIRECTED READING (3-0-3)
ENGL 622(S) May also be listed as MDST 461 and MDST 462.

ENGL 701(F) BRITISH AND AMERICAN LITERATURE (3-0-3)
ENGL 702(S)

ENGL 703(F) RESEARCH LEADING TO CANDIDACY (hours variable)
ENGL 704(S) Research in English and American literary theory. Taken after completion of departmental course requirements for the master’s or doctorate and before admission to candidacy.

ENGL 800 PH.D. RESEARCH AND THESIS (hours variable)
Taken after admission to candidacy.

Environmental Science and Engineering (ENVI)

The George R. Brown School of Engineering/
Department of Civil and Environmental Engineering

ENVI 201(F) INTRODUCTION TO ENVIRONMENTAL SYSTEMS (3-3-4)
The chemical, physical, and biological components of the natural environment as resources and their utilization and interaction in environmental control technologies. Also offered as HEAL 201. Instructor: Ward

ENVI 306(S) GLOBAL ENVIRONMENTAL LAW AND SUSTAINABLE DEVELOPMENT (3-0-3)
Examination of emerging trends toward sustainable development and global environmental protection. Includes international treaties on management of the oceans, global warming, ozone depletion, biodiversity, and development patterns; impact of trade treaties such as NAFTA and GATT. Limited enrollment. Offered every other spring semester. Instructor: Blackburn

ENVI 401(F) INTRODUCTION TO ENVIRONMENTAL CHEMISTRY (3-3-4)
Study of the principles and significance of measurements used to assess environmental quality. Includes hands-on measurements of both classical methods (e.g., titration and others) and modern instrumental methods of measuring pollutant concentrations. Prerequisites: CHEM 121 and 122. Instructor: Tomson
(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ENVI 490  SPECIAL STUDY AND RESEARCH (hours variable)
Open to environmental science and engineering majors with permission of department chair. Written thesis required.

ENVI 511(F)  ATMOSPHERIC CHEMISTRY AND PHYSICS (3-0-3)
Study of the principal and chemical and physical processes affecting trace gases and particles in the atmosphere. Overview of the atmospheric transport, transformation, and dispersion of air pollutants on the urban, regional, and global scale; atmospheric photochemistry and tropospheric ozone formation; influence of meteorology on air pollution; stratospheric chemistry and global climate change; interactions between gases and particles; and characterization, chemical composition, and size distributions of atmospheric particles. Instructor: Fraser

ENVI 512(S)  HYDROLOGIC DESIGN LAB (0-2-1)
Use of hydrologic models for design and analysis of water resource systems. Instructor: Bedient

ENVI 518(F)  GROUNDWATER HYDROLOGY (3-0-3)
Study of groundwater hydrology, hydrogeology, well mechanics, and hydraulics. Includes contaminant transport in aquifer systems, numerical models, and groundwater remediation. Instructor: Bedient

ENVI 521(S)  REMEDIATION TECHNOLOGIES (3-0-3)
Study of current remediation technologies for soil, water, and air. Covers SVE/sparging, surfactant/cosolvent and thermal technologies, reactive barriers, bioremediation, phyto remediation, soil washing, pump and treat, air emission controls. Includes selection criteria, costs, operating strategies, and engineering design. Instructor: Ward

ENVI 530(S)  PHYSICAL-CHEMICAL PROCESSES IN ENVIRONMENTAL ENGINEERING (3-0-3)
Introduction to colloid and surface chemistry, precipitation, mixing, particle aggregation, settling, packed bed filtration, adsorption, ion exchange, gas transfer, membrane processes, chemical oxidation, and disinfection operations used in environmental pollution control and potable water treatment. Prerequisites: ENVI 403 (or equivalent) and 534. Instructor: Wiesner

ENVI 534(F)  ENVIRONMENTAL FLUID MECHANICS AND MASS TRANSPORT (3-0-3)
Study of the principles of fluid flow, mass transport, and transformation processes in natural and engineered systems. Includes applications in reactor engineering and in the chemical and biological reaction kinetics of environmental systems modeling for streams, lakes, estuaries, and the atmosphere. Previous course work in fluid mechanics and calculus through differential equations is strongly suggested. Instructor: Wiesner

ENVI 536(S)  ENVIRONMENTAL BIOTECHNOLOGY (3-0-3)
Examination of the theory and application of biochemical processes in environmental engineering. Prerequisite: ENVI 403 or permission of instructor. Instructor: Hughes

ENVI 550(S)  APPLIED WATER CHEMISTRY (3-0-3)
Exploration of the theoretical basis for considering the chemistry of natural and wastewater systems. Includes interfacial processes and parameter estimation methods in common use. Instructor: Tomson

ENVI 590  M.E.E. AND M.E.S. SPECIAL STUDY AND RESEARCH (hours variable)
Independent investigation of a specific topic or problem in environmental engineering under the direction of a selected faculty member. Preparation of a formal report and the oral presentation of research results required.
ENVI 601(F)  SEMINAR (3-0-3 each semester)

ENVI 602(S)
Continuing seminar on environmental research.

ENVI 630(F)  CHARACTERIZATION, TRANSPORT, AND TREATMENT OF PARTICLES IN WATER (3-0-3)
Study of the theory and methods for characterizing aquasols, colloid chemistry, particle transport in porous media and simple flows, particle aggregation, aggregate and deposit morphology, and other special topics. **Instructor: Wiesner**

ENVI 635(F)  ADVANCED TOPICS IN WATER
ENVI 636(S)  CHEMISTRY (hours variable)
Formal lecture and assigned reading in topics such as redox kinetics and thermodynamics, adsorption and desorption, and the associated mathematics. **Instructor: Tomson**

ENVI 640(F)  ADVANCED TOPICS IN ENVIRONMENTAL
ENVI 641(S)  ENGINEERING SCIENCES (hours variable)
Exploration of the biodegradation of xenobiotic compounds, methods of studying biotransformation processes, and the design of bioremediation systems. Prerequisite: ENVI 525 or 536. **Instructor: Hughes**

ENVI 651(F)  M.S. RESEARCH AND THESIS (hours variable)
ENVI 800 PH.D. RESEARCH AND THESIS (hours variable)

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**Earth Science (ESCI)**

**The Wiess School of Natural Sciences**

ESCI 101  THE EARTH (3-0-3)
Study of the nature of the earth and the processes that change it. Required for geology and geophysics majors; may substitute ESCI 102, 107, or 108. ESCI 105 is a recommended corequisite.  **(F) Instructor: Lenardic; (S) Instructors: Dickens, Gordon**

ESCI 102(S)  EVOLUTION OF THE EARTH (3-0-3)
Survey of the history of the earth and the evolution of its continents, ocean basins, life, and climate over the past 4.6 billion years. ESCI 101 recommended but not required. ESCI 105 is a recommended corequisite. **Instructor: Staff**

ESCI 103  FIELD TRIPS FOR THE EARTH (0-1-1)
Four evening lectures of one hour each prior to one long and one one-day field trip. Corequisite: ESCI 101. Not offered every year. **Instructor: Staff**

ESCI 105  INTRODUCTORY LABORATORY FOR EARTH SCIENCE (0-3-1)
Lab exercises in rocks, minerals, stratigraphy, paleontology, mapping, geophysics, and plate tectonics. Normally taken with ESCI 101, 102, 107 or 108. Recommended before taking upper-level geology courses. **Instructor: Staff**

ESCI 107(F)  OCEANS AND GLOBAL CHANGE (3-0-3)
Overview of the impact of the ocean and ocean evolution on the earth’s climate. Includes geological, physical, chemical, and biological aspects of change. **Instructor: Droxler**

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ESCI 202(S)  EARTH SCIENCE IN HUMAN AFFAIRS (3-0-3)
Survey of the historical development of geosciences. Includes application of geophysical methods to learn about the earth’s interior and to explore for oil and other minerals. ESCI 101 recommended but not required. instructor: Talwani

ESCI 214(S)  THE PLANETS (3-0-3)
Overview of the physical, chemical, and geosciences development of the solar system from 4.6 billion years ago until today. Includes all planets and their major satellites, comets, and asteroids. Not offered every year. Instructor: Staff

ESCI 311(F)  MINERALOGY AND OPTICS (3-3-4)
Introduction to crystallography, crystal chemistry, systematics and classification, physical and chemical properties, distribution, occurrence and genesis of minerals, as well as optical mineralogy. Instructor: Luttge

ESCI 312(S)  PETROLOGY (3-3-4)
Description and interpretation of igneous and metamorphic rocks, with lab emphasis on study of rock thin sections with petrographic microscope. Includes a one-weekend field trip. Prerequisite: ESCI 311. Instructor: Leeman

ESCI 326(F)  ENVIRONMENTAL GEOLOGY (3-0-3)
Examination of interrelations between humans and the geologic environment, with emphasis on geologic processes, hazards, and environmental management. Includes groundwater, soils, landslides, subidence, water systems (e.g., river, coastal, and lacustrine environments), earthquakes and volcanic activity, mineral and energy resources, and waste disposal, as well as local field trips. See also ESCI 426. Not offered every year. Instructor: Staff

ESCI 331(F)  STRUCTURAL GEOLOGY (3-3-4)
Introduction to deformation mechanics, the structural analysis of faults and folds, and elementary tectonics, with lab emphasis on the practical use of structural analysis. Includes a one-weekend field trip. Instructors: Avé Lallemant, Morgan

ESCI 332(S)  SEDIMENTOLOGY (3-3-4)
Study of processes in sedimentation and sedimentary rocks. Includes both clastic and carbonate rocks and lab exercises, as well as a one-weekend field trip. Instructors: Anderson, Droxler

ESCI 333(F)  STRUCTURAL GEOLOGY (3-0-3)
Same as ESCI 331 without a lab. Open to nonmajors only. Instructors: Avé Lallemant, Morgan

ESCI 334(S)  GEOLOGICAL AND GEOPHYSICAL TECHNIQUES (0-6-2)
Instruction in beginning field techniques. Includes seven labs, seven field days, and class meetings, culminating in the submission of a geologic map and report. Prerequisite: ESCI 331 or permission of instructor. Instructors: Avé Lallemant, Morgan

ESCI 345(S)  GEOLOGY OF NATIONAL PARKS (3-0-3)
Study of the geologic features and history of selected national parks and their relationship to regional geological events and processes. Optional early summer field trip. Prerequisite: any 100-level geology offering. Not offered every year. Instructor: Staff

ESCI 353(S)  ENVIRONMENTAL GEOCHEMISTRY (3-0-3)
Study of the theories and problems of chemical hazards in the environment due to natural processes, with emphasis on low-temperature aqueous systems. Instructor: Luttge

ESCI 390  FIELD GEOLOGY (0-12-4)
Field course in geology.
ESCI 403(F)  SEMINAR: FACULTY RESEARCH  (1-0-1)
Introduction to current research in geology. Includes description by department faculty members of their research and some of the techniques involved. *Instructor: Staff*

ESCI 405(F)  SEMINAR: CURRENT RESEARCH IN EARTH SCIENCE  (1-0-1 each semester)
Lectures on current research in various areas of geology/geophysics. May be repeated for credit.

ESCI 411(F)  METAMORPHIC PETROLOGY  (3-3-4)
Evaluation of sub-solidus mineral equilibria through study of natural assemblages, thermodynamic calculations, and experiments. Includes lab emphasis on thin section petrography. Prerequisite: ESCI 312. Not offered every year. *Instructor: Staff*

ESCI 412(S)  IGNEOUS PETROLOGY  (3-3-4)
Evaluation of the evolution of igneous rocks in the earth’s crust and mantle. Includes phase equilibria, experimental studies, and geochemistry, with lab emphasis on thin section petrography. Prerequisite: ESCI 312. *Instructor: Leeman*

ESCI 413(F)  ORGANIC GEOCHEMISTRY  (3-0-3)
Study of the origin and evolution of petroleum and natural gas. Includes the fate of biogenic compounds in sedimentary rocks over geologic time. Not offered every year. *Instructor: Bissada*

ESCI 415(S)  ECONOMIC GEOLOGY—PETROLEUM  (3-0-3)
Study of the geology of petroleum. Includes origin, migration, and accumulation, as well as government regulation and industry economics. Not offered every year. *Instructor: Riese*

ESCI 416(F)  ECONOMIC GEOLOGY—MINERAL DEPOSITS  (3-0-3)
Overview of metallic and nonmetallic mineral deposits, theories of their origin, and their classification. Includes the impact of government regulation, economics, production practices, and exploration. Not offered every year. *Instructor: Staff*

ESCI 417(F)  ECONOMIC GEOLOGY—RISK AND ECONOMIC EVALUATION  (3-0-3)
Topics covered include resource size determination; geologic risk analysis; establishing minimum economic thresholds; economic chance factors; and the concepts of present worth, investment efficiency, and rates of return. Price forecasting and cost inflation are discussed. The limitations of discrete solutions and Monte Carlo evaluations of expected outcomes are examined. Students will spend the semester working through a case evaluation in order to see first-hand how the interplay of these various assumptions and decision analysis techniques impact investment decisions. Offered on sufficient demand. *Instructor: Riese*

ESCI 421(F)  PALEOCEANOGRAPHY  (3-0-3)
Study of the Mesozoic and Cenozoic evolution of the ocean system based on analyses of biogenic and terrigenous deep-sea sediments. Prerequisite: ESCI 332. Not offered every year. *Instructors: Dickens, Droxler*

ESCI 423(S)  ANTARCTIC MARINE GEOL OGY  (3-0-3)
Study of marine geologic principles and processes using examples from the southern oceans. Not offered every year. *Instructor: Anderson*

ESCI 426(F)  ENVIRONMENTAL GEOLOGY  (3-0-3)
Enriched version of ESCI 326. Completion of extra project required to receive credit at this level. May not receive credit for both ESCI 326 and 426. Not offered every year. *Instructor: Staff*

ESCI 427(F)  SEQUENCE STRATIGRAPHY  (3-0-3)
Study of the principles of sequence stratigraphy (a new tool used to subdivide, correlate, and map sedimentary rocks within chronostratigraphically constrained genetic intervals) and its application to outcrop, well log, and seismic data. Not offered every year. *Instructor: Staff*

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
ESCI 428(F)  GEOLOGIC INTERPRETATION OF REFLECTION SEISMIC PROFILES (3-3-4)
Practical application of methods used in the tectonic analysis of deformed belts. Includes case studies of deformed belts from around the world, with emphasis on the use of map, stratigraphic, structural, potential field, and seismic reflection data as a means of integrating surface and subsurface relations, as well as on the use of restorable structural sections and forward simulations in developing time-integrated, three-dimensional models. *Instructor: Tari*

ESCI 441(S)  GEOPHYSICAL DATA ANALYSIS (3-0-3)
Review of linear algebra and probability. Discrete inverse theory, data fitting, model parameter estimation, linear and nonlinear methods, model assessment, global optimization. Prerequisite: MATH 211, NSCI 230 or equivalent programming experience. *Instructor: Zelt*

ESCI 442(F)  EXPLORATION GEOPHYSICS (3-3-4)
Study of principles and procedures involved in geophysical exploration. Includes acquisition, processing, and interpretation of gravity, magnetic, and seismic data. *Instructors: Levander, Talwani*

ESCI 444(S)  REFLECTION SEISMIC DATA PROCESSING LABORATORY (1-6-3)
Experience with processing reflection seismic data. Includes seismic data organization, velocity analysis, stacking, filtering, deconvolution, migration, and display, using the Center for Computational Geophysics facility’s Omega seismic processing system. Prerequisite: ESCI 442. Not offered every year. *Instructors: Levander, Sawyer*

ESCI 446(S)  SOLID EARTH GEOPHYSICS (3-3-4)
Description and analysis of the gravitational, magnetic, thermal, and seismic properties of the earth, as well as their bearing on plate tectonics. *Instructors: Levander, Talwani*

ESCI 451(F)  ANALYSIS OF ENVIRONMENTAL DATA (2-3-3)
Overview of statistics, geographical data display, contouring and kriging, time series analysis, and image processing, with emphasis on the application of these techniques to geological, remote sensing, and environmental problems. Extensive computer use required. *Instructor: Sawyer*

ESCI 454(S)  GEOGRAPHIC INFORMATION SCIENCE (3-0-3)
Introduction to geographic information systems (GIS) technology, mapping sciences, and spatial analysis. The course will include extensive computer use and the completion of a major individual project on a topic selected by the student. *Instructor: Sawyer*

ESCI 458(S)  THERMODYNAMICS/KINETICS FOR GEOScientISTS (3-0-3)
Thermodynamics and kinetics for the special needs of geo/earth scientists covering the basic concepts with respect to geochemical applications, e.g., equilibrium—non-equilibrium concepts, steady state, AG-dependence of reactions, mixing models, etc. Prerequisite: Calculus. *Instructor: Luttge*

ESCI 461(S)  SEISMOLOGY I (3-0-3)
Principles of elastic wave initiation, propagation, and reflection in ideal media and real rocks. Required prerequisites: MATH 211 and PHYS 101/102. Recommended prerequisites: Math 212 (may be taken concurrently), ESCI 441/442, and CAAM 336. Also offered as CAAM 441. *Instructors: Levander, Symes, Zelt*

ESCI 462(S)  TECTONOPHYSICS (3-0-3)
Applications of continuum physics to the deformation, flexure, heat transfer, and gravity field of the lithosphere. Prerequisites: MATH 211 and 212. Not offered every year. *Instructor: Gordon*

ESCI 463(F)  ADVANCED STRUCTURAL GEOLOGY (3-3-4)
Examination of the mechanics of rock deformation in theory, experiments, and nature. *Instructors: Avé Lallemant, Morgan*
ESCI 464(F)  GLOBAL TECTONICS (3-0-3)
Introduction to global tectonics, emphasizing the theory of plate tectonics, including geometrical aspects of plate tectonics, descriptions of the 3 traditional types of plate boundaries, instantaneous plate motions, finite plate motions, and the relation of plate tectonics to earthquakes and faulting. The course will also address true polar wander, the driving mechanism of plate tectonics, diffuse plate boundaries, plate nonrigidity, and intraplate tectonics. Instructor: Gordon

ESCI 468(S)  PALAEOCLIMATE AND HUMAN RESPONSE (3-0-3)
Palaeoscientists have records extending through the Holocene of forcing process, such as climate, that influence humans. We examine these records and their impact on past and present society. We explore the concept of social memory, used to understand how past communities use information about climate change and past responses in long-term adaptive strategies. Also offered as ANTH 468. Instructors: Droxler, R. McIntosh

ESCI 475(S)  PLIO-PLEISTOCENE CLIMATE CHANGE AND HOMINID ADAPTATION (3-0-3)
Junctures in the evolution of the hominids appear to coincide with shifts in Earth’s climate record. Explores the current status of our knowledge of global climate in the Plio-Pleistocene and of the hominid record from the end of the Miocene to the appearance of H. sapiens. Also offered as ANTH 475. Instructors: Droxler, McIntosh

ESCI 481(F)  RESEARCH IN GEOLOGY AND GEOPHYSICS
Advanced work adapted to the needs of the individual undergraduate student.

ESCI 482(S) (hours variable)

ESCI 491(F)  SPECIAL STUDIES (hours variable)
ESCI 492(S)
Study in specific fields for undergraduates under the guidance of a staff member. May be repeated for credit.

ESCI 501(F)  SPECIAL STUDIES (hours variable)
ESCI 502(S)
ESCI 503(Summer)
Advanced work in certain phases of geology or geophysics adapted to the needs of individual graduate students. May be repeated for credit.

ESCI 504(F)  DEPOSITIONAL SYSTEMS
Study of modern and ancient sedimentary environments, with emphasis on fieldwork. Includes examination of depositional models in relation to climatic, oceanographic, and tectonic influences. Instructor: Anderson

ESCI 505(F)  APPLIED SEDIMENTOLOGY I (1-6-3)
Field investigation of the sedimentary deposits of northwestern New Mexico to provide graduate students in sedimentology with training in field methods, interpretation of sedimentary deposits, and facies mapping. Prerequisite: ESCI 504. Instructor: Anderson

ESCI 506(S)  CARBONATE SEDIMENTOLOGY (3-0-4)
Characterization of modern and ancient, shallow and deep sedimentary environments and facies. Includes examination of different depositional models in relation both to climate and to hydrographic and geographic settings, as well as three field trips. Prerequisite: ESCI 332. Instructor: Droxler

ESCI 507–534  SEMINARS IN EARTH SCIENCE (hours variable)
Content varies from year to year. May be repeated for credit.
ESCI 535(F) **STABLE ISOTOPE GEOCHEMISTRY** (3-0-3)
Review of the basic principles of isotope fractionation mechanisms and the distribution of isotopes, with emphasis on its significance to major geological problems. Not offered every year. *Instructor: Staff*

ESCI 542(S) **SEISMOLOGY II** (3-0-3)

ESCI 561(F) **ADVANCED TOPICS IN GEOPHYSICS** (3-0-3 each semester)
Content varies from year to year. Includes convection, advanced wave propagation, tectonophysics, and inverse problems. May be repeated for credit. Not offered every year. *Instructor: Staff*

ESCI 562(S) **STRUCTURAL ANALYSIS OF DEFORMED ROCKS** (3-3-4)
Study of structures, textures, and fabrics of deformed rocks. Includes strain and kinematic analysis. *Instructor: Avé Lallemant*

ESCI 568(S) **ELECTRON MICROPROBE/SCANNING ELECTRON MICROSCOPE (SEM): THEORY** (2-2-2)
Survey of the principles, techniques, and applications of the electron microprobe/SEM, with emphasis on quantitative analysis and geological problems. Includes practical lab instruction and experience in analytical techniques. Not offered every year. *Instructor: Staff*

ESCI 574(S) **PREPARATION OF M.A. THESIS**
May not receive credit for both ESCI 579 and 580.

ESCI 580(S) **PROPOSAL** (0-9-3 each semester)
May not receive credit for both ESCI 589 and 590.

ESCI 589(F) **PREPARATION OF PH.D. THESIS**
May not receive credit for both ESCI 589 and 590.

ESCI 800 **THESIS RESEARCH** (hours variable)

**Foreign Language Across the Curriculum (FLAC)**

The School of Humanities

**FLAC 100** **FOREIGN LANGUAGE ACROSS THE CURRICULUM** (1-0-1)

**FLAC 200** **FOREIGN LANGUAGE ACROSS THE CURRICULUM** (1-0-1)

**FLAC 300** **FOREIGN LANGUAGE ACROSS THE CURRICULUM** (1-0-1)

**FLAC 400** **FOREIGN LANGUAGE ACROSS THE CURRICULUM** (1-0-1)

The course explores how working with primary source materials in the original language can enrich a student’s understanding of the historical experience. Permission of the instructor is required. FLAC will be offered as a component of various courses to be announced each semester. *Instructor: Staff*

(F) = fall; (S) =
French Studies (FREN)

The School of Humanities

Note that the upper-level undergraduate courses are listed by section according to content.

FREN 101  ELEMENTARY FRENCH LANGUAGE AND CULTURE I (3-2-5)
Study of the French language, with equal emphasis on reading, writing, speaking, and understanding. Includes classroom activities supplemented by work in language lab. Instructor: Achard

FREN 102  ELEMENTARY FRENCH LANGUAGE AND CULTURE II (3-2-5)
Continuation of FREN 101. Prerequisite: FREN 101 or placement exam.

FREN 113  BEGINNING FRENCH FOR ENGINEERING AND SCIENCES I (4-1-5)
Single summer course offered in August. Intensive introductory French for students in engineering or science. Focus on communicative competence, cultural awareness, and engineering/science-related content. Multimedia integration. 4 hours daily; 3-week session. Instructor: Crull

FREN 114(F)  BEGINNING FRENCH FOR ENGINEERING AND SCIENCES II (3-2-5)
Continuation of introductory French for students in engineering or science. Focus on communicative competence, cultural awareness, and engineering/science-related content. Multimedia integration. Prerequisites: FREN 113, FREN 101, or permission of instructor. Instructor: Crull

FREN 201  INTERMEDIATE FRENCH LANGUAGE AND CULTURE I (3-0-4)
Includes literary and cultural readings as basis for class discussions and compositions. Prerequisite: FREN 102 or placement exam. Instructors: Crull, Datta, Staff

FREN 202  INTERMEDIATE FRENCH LANGUAGE AND CULTURE II (3-0-4)
Continuation of FREN 201. Prerequisite: FREN 201 or placement exam. Instructors: Crull, Datta, Staff

FREN 203  FACETS OF THE FRANCOPHONE WORLDS (3-0-3)
An introduction to Francophone cultures worldwide, the course will deal with the history, geography, and cultures of the French–speaking world. It will cover geographical areas on the three continents, focusing on France, Québec, and Africa north and south of the Sahara. Instructors: Datta, Staff

FREN 213(S)  INTERMEDIATE FRENCH FOR ENGINEERING AND SCIENCES I (4-1-5)
Intermediate French for students in engineering or science. Expansion of engineering/science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. Prerequisites: FREN 114, FREN 102, or permission of instructor. Instructor: Crull

FREN 214  INTERMEDIATE FRENCH FOR ENGINEERING AND SCIENCES II (3-1-4)
Single summer course offered in May. Intensive intermediate French for students in engineering or science. Expansion of engineering/science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. 4 hours daily; 3-week session. Prerequisite: FREN 213 or FREN 201 or permission of instructor. Instructor: Crull

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
FREN 220(S)  INTRODUCTION TO THE NOVEL WRITTEN IN FRENCH (3-0-3)
Taught in translation. Study of the novel from the 17th century to the present in France, Africa, and the Caribbean. Includes explorations of personhood, sexuality, modern capitalism, and imperialism. Texts by Mme. de Lafayette, Marquis de Sade, Balzac, Flaubert, Proust, Colette, Sartre, Condé, Cheikh Hamidou Kane, and Robbe-Grillet. Taught in English. Instructor: Wood

I. ADVANCED LANGUAGE

FREN 301  ADVANCED FRENCH FOR WRITTEN AND ORAL COMMUNICATION (3-0-3)
Required of all majors. The objective of the course is to stimulate language production at the advanced level through the examination of the lexical, syntactic, and stylistic characteristics of contemporary French. The course thus relates the contents of descriptive, narrative, and argumentative texts to specific functional and grammatical objectives. The course also features an individual or group research component through which students will be able to practice French in an academic field of their choice. Prerequisite: FREN 202 or placement exam. Instructors: Alcover, Aresu, Crull, Datta

FREN 302(F)  FRENCH PHONETICS (3-0-3)
Contrastive analysis of the French sound system. Includes key areas such as the diction and articulation of French speech, with emphasis on class work as well as lab practice. Prerequisite: FREN 202 or placement exam. Instructor: Alcover

FREN 305(S)  FRENCH FOR THE PROFESSIONS (3-0-3)
An introduction to French for the professions. This course will deal with the essential vocabulary and syntax specific to the language of technology, ecology, medicine, and business. The areas of focus may vary from year to year. Prerequisite: FREN 301. Instructor: Datta

FREN 313(F)  ADVANCED FRENCH FOR ENGINEERING AND SCIENCES I (3-0-3)
Strong engineering/science content-based course. Includes current scientific/technical issues, cross-cultural topics and career-related task assignments. Focus on reading, writing, speaking and listening comprehension skills in the context of French science and technology. Prerequisite: FREN 214 or 202 or permission of the instructor. Instructor: Crull

FREN 314(S)  ADVANCED FRENCH FOR ENGINEERING AND SCIENCES II (3-0-3)
Focus on technical writing and oral presentation skills such as engineering project descriptions and summaries of reports. Office communication. Designed to prepare students for internships in a French-speaking country. Prerequisite: FREN 313. Instructor: Crull

FREN 318(F)  STRUCTURE OF FRENCH (3-0-3)
The primary objective of this course is to present contemporary French as a dynamic linguistic system shaped by historical, cognitive and sociological developments. The historical section presents the diachronic evolution of French as a crucial factor in the current use of the “standard” and regional dialects. The linguistic section analyses the language as a system of mental representation, and presents the tools necessary to describe that system. Linguistic forms are shown to be motivated by cognitive principles, which are identified and carefully examined. The last part of the course is devoted to the socio-economic conditions which preside over language use. Beyond the specific consideration of French, this course is concerned with the historical, psychological, and sociological dimensions that enter into the description of any language. Also offered as LING 318. Instructor: Achard

FREN 401  TRANSLATION (3-0-3)
Exploration of the theory and practice of translation. Includes translation of modern texts from and into English. Prerequisites: FREN 301 and 311 or 312, or permission of instructor. Instructors: Achard, Aresu, Wood

(F) = fall; (S) =
II. LITERATURE

FREN 311(F)   INTRODUCTION TO FRENCH LITERATURE I (3-0-3)
Survey of the main currents in French literature from its beginning to the 18th century. Includes lectures and discussions in French. Prerequisite: FREN 202 or placement exam. Instructors: Alcover, Nelson

FREN 312 INTRODUCTION TO FRENCH LITERATURE II (3-0-3)
Survey of the main currents in French literature from the 19th century to the present. All lectures and discussions in French. Prerequisite: FREN 202 or placement exam. Instructors: Goux, Harter, Wood

FREN 320 CLASSICS OF THE FRENCH NOVEL IN ENGLISH TRANSLATION (3-0-3)
Study of the evolution of the novel from the 17th century to the present as an introduction to the history of the genre, as well as explorations of personhood, gender ideology, sexuality, and modern capitalism. Includes Mme de Lafayette, Diderot, de Sade, Balzac, Flaubert, Proust, Sartre, Robbe-Grillet, and Duras. Not offered 2001–2002. Instructor: Wood

FREN 350 19TH-CENTURY FRENCH LITERATURE IN ENGLISH TRANSLATION (3-0-3)
A study of the best in 19th-century French literature with readings from Balzac, Stendhal, Sand, Baudelaire, Flaubert, Hugo, Zola, and Proust. We will consider the varying strategies with which writers of the 19th century explored the passions and the anxieties of an increasingly modern, increasingly alienating society. Not offered 2001–2002. Instructor: Harter

FREN 355 MODERN SHORT FICTION FROM BALZAC TO BORGES IN ENGLISH TRANSLATION (3-0-3)
A study of great works of European and American short fiction from the late 18th–20th century, with a focus on the particular obsessions and the particular pleasures of the modern period. Writers include Kleist, Balzac, Poe, Hawthorne, Melville, Gogol, Maupassant, Le Fanu, Kafka, Faulkner, O'Connor, Calvino, and Borges. Also offered as ENGL 355. Instructor: Harter

FREN 410 THE LITERARY AND HISTORICAL IMAGE OF THE MEDIEVAL WOMAN (3-0-3)

FREN 414(S) LITERATURE AND CULTURE OF THE MIDDLE AGES: SAINTS AND SINNERS (3-0-3)
Study of medieval French works that depict saints and sinners with the goal of assessing the cultural structure that sets the limits of these labels. Prerequisites: FREN 301 and 311. Not offered 2001–2002. Instructor: Nelson

FREN 415(F) COURTLY LOVE IN MEDIEVAL FRANCE (3-0-3)
Undergraduate version of FREN 515. Prerequisites: FREN 301 and 311. Also offered as MDST 415. Instructor: Nelson

FREN 416(S) LITERATURE AND CULTURE OF THE MIDDLE AGES: KING ARTHUR (3-0-3)
Examination of the origins of the legend of King Arthur and reasons for its popularity, particularly in literature of the French Middle Ages but also in other medieval literatures of Western Europe. Includes discussion of the legend’s influence in diverse areas even in modern times. Prerequisites: FREN 301 and 304, and 311, or placement exam. Not offered 2001–2002. Instructor: Nelson

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
FREN 430(S) FRENCH 17TH CENTURY (3-0-3)
This course will take a thematic approach as it examines the main political, religious, philosophical, and literary discourses of the golden age of absolutism (from the creation of the Académie française to the death of Louis the XIVth). Readings will include, among others, excerpts from Descartes, Cyrano de Bergerac, the pamphlets of the Fronde, Pascal, Boileau, La Rochefoucauld, La Bruyère, Bayle, and Fontenelle. Prerequisites: FREN 301 and 311. Instructor: Alcover

FREN 440 FRENCH ENLIGHTENMENT (3-0-3)
Study of literary, philosophical, and visual works that demonstrate how ideas of the Enlightenment and the rise of the bourgeoisie led to the French Revolution. Prerequisites: FREN 301 and 311. Not offered 2001–2002. Instructor: Alcover

FREN 445 ENLIGHTENMENT AND COUNTER-ENLIGHTENMENT (3-0-3)

FREN 450 TOPICS IN 19TH-CENTURY LYRIC (3-0-3)
Study of the poetry and prose poetry of the 19th century from the Romantic period to the symbolist era, through such writers as Desbordes-Valmore, Vigny, Hugo, Nerval, Baudelaire, Verlaine, Rimbaud, and Mallarmé. Prerequisites: FREN 301 and 311 or 312. Not offered 2001–2002. Instructor: Harter

FREN 455 STUDIES IN 19TH-CENTURY NARRATIVE (3-0-3)
Study of brief fiction and the novel from Constant to Rachilde, with an emphasis on close reading and with an introduction to modern critical perspectives. Prerequisites: FREN 301 and 311 or 312. Instructor: Harter

FREN 459 MASTERPIECES OF FRENCH THEATER FROM CORNEILLE TO SARTRE (3-0-3)
The course will cover literary, aesthetic, and historical developments in French theater, from the 17th to the 20th centuries (Corneille, Racine, Molière, Beaumarchais, Hugo, Musset, Feydeau, Rostand, Giradoux, Anouilh, and Sartre). Prerequisites: FREN 301 and 311 or 312. Not offered 2001–2002. Instructor: Alcover

FREN 460(F) WOMEN AND WOMEN’S VOICES IN FRENCH LITERATURE (3-0-3)
Examination of ways that women have been represented in fiction—by themselves and by others—since the early modern period. Includes Mme de Lafayette, de Sade, Baudelaire, Villiers de l’Isle-Adam, de Beauvoir, Duras, and Wittig, with emphasis on the constitution of “the feminine” in literary texts as a cultural, historical, and social artifact. Prerequisites: FREN 301 and 311 or 312. Also offered as WGST 412. Not offered 2001–2002. Instructor: Harter

FREN 462 THE LYRIC GENRE FROM BAUDELAIRE TO BONNEFOY (3-0-3)
Study of the major lyrical figures and poetic preoccupations of the 19th and 20th centuries, not limited to the hexagon. Prerequisites: FREN 301 and 312. Not offered 2001–2002. Instructor: Aresu

FREN 465 SURREALIST NARRATIVES (3-0-3)
Survey of sociohistorical reasons for the emergence of the avant-garde. Includes Breton’s Nadja, Aragon’s Le paysan de Paris, Artaud’s Héliogabale, Michaux’s Un barbare en Asie, Bataille’s Le bleu du ciel and Histoire de l’oeil, and Gracq’s Au chateau d’Argol. Prerequisites: FREN 301 and 312. Instructor: Wood

FREN 466 THE NARRATIVE AND THE OTHER ARTS (3-0-3)
Undergraduate version of Fren 566. Taught occasionally in English. Prerequisites: FREN 301 or 304, and 312 or placement exam. Not offered 2001–2002. Instructor: Aresu
FREN 472 PROUST (3-0-3)
Instructor: Wood

FREN 475 FLAUBERT AND SARTRE:
“L’IDIOIT DE LAFAMILLE” (3-0-3)
Instructor: Wood

FREN 487 20TH-CENTURY NOVEL IN FRENCH (3-0-3)
Exploration of the construction of the modern self in a variety of French and Francophone novels of the 20th century, with a particular focus on the relationship between the self and narrative form; the role of memory; violence and representation; and the construction of gender, sexuality, nationality, and race in the modern novel. Readings include Proust, Camus, Perec, Hebert, Duras, Ben Jelloun, and Djebar. Prerequisites: FREN 301 and 312. Not offered 2001–2002.
Instructor: Huffer

III. CULTURE, HISTORY, AND CIVILIZATION

FREN 321 PARIS (3-0-3)
Overview of the history of Paris both as a city and a capital and as a cultural, intellectual, and economic center. Includes texts, slides, music, and films. Prerequisite: FREN 301. Not offered 2001–2002. Instructor: Alcover

FREN 351(S) THE PROVINCES OF FRANCE (3-0-3)
At the time of the Revolution in 1789, France was divided into 32 administrative units called provinces, which largely correspond to the 22 regions of modern times. An amazing diversity in the history, languages, economic bases, traditions, and cultures can be found in the original provinces. This course will explore the development of the provinces from earliest times in order to arrive at a better understanding of France as it exists today. Prerequisite: FREN 301.
Instructor: Nelson

FREN 360(F) SOCIETY AND THE SEXES IN MODERN FRANCE (3-0-3)
Examination of gender roles, gender ideology, and sexual practices in the construction of French society and culture from the Enlightenment to World War II. Includes sexual politics and emergent “public sphere” in the 18th century, masculine and feminine images of the state during the French Revolution, feminist discourses and politics in 1789, 1848, and during the campaign for women’s suffrage, and family structures, patriarchy, and notions of property. Taught in English. Some readings may be in French. Also offered as HIST 360 and WGST 311. Not offered 2001–2002.
Instructor: Sherman

FREN 371 OLD REGIME AND REVOLUTIONARY FRANCE (3-0-3)
Study of transformations in French society, culture, and politics before, during, and after the French Revolution. Taught in English. Required for French studies majors; may substitute FREN 372. Also offered as HIST 371. Instructor: Sherman

FREN 372 THE MAKING OF MODERN FRANCE, 1815–1995 (3-0-3)
Study of the emergence of modern France. Includes the impacts of war, industrialization, imperialism, and cultural mastery. Taught in English. Also offered as HIST 372. Instructor: Sherman

FREN 387(S) IMAGES OF CONTEMPORARY FRANCE (3-0-3)
The course will deal with the sociopolitical and intellectual history of post-war France. Based upon texts by Borne, Edmiston, and Duménil, it will also examine various analyses of French culture by Valery, E. Faure, Mendras, Barthes, and Lipovetsky. The course will cover such topics as the advent of the Fifth Republic, decolonization, May ’68 and political dissent, modernization and the postmodern condition, and France and the construction of Europe. Prerequisite: FREN 301. Not offered 2001–2002.
Instructor: Goux

FREN 407 INTRODUCTION TO FRENCH FILM (3-0-3)
Instructor: Alcover

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
FREN 408(S)  TOPICS IN FRENCH FILM (3-0-3)
HISTORY ON SCREEN. This course will deal with the cinematic representation of French history through the 20th century. Film makers will include, among others, Dreyer, Gance, Bresson, Wajda, Chabrol, Chalonge, Rouan, Tavernier, Planchon, Warnier, Cherreaur, and Ramponneau. Prerequisites: FREN 301, and FREN 371 or FREN 372 or equivalent. Instructor: Alcover

FREN 423  MODERN FRENCH PAINTERS AND THEIR WRITERS (3-0-3)
Fascinated by painting, modern and contemporary French writers have produced significant literary commentaries that reveal affinities with painters whose artistic “questioning” they shared. Those commentaries in turn enlightened their own aesthetic concerns as well as the painters’ own creative visions. The purpose of this course is to study some of the encounters between these painters and their writers. Among them: Picasso (commented by Apollinaire, Cocteau, Breton, Sollers, etc.), Braque (commented by Ponge, Paulhan, Malraux, Saint John Perse), Matisse (commented by Aragon, Pleynet), Magritte (analyzed by Foucault, and Butor), and Rebeyrolle (by Sartre, Foucault). Prerequisites: FREN 302 and 312. Instructor: Goux

FREN 434  FRENCH FEMINIST THEORY (3-0-3)
Examination of the important problems of contemporary feminist theories in French, with a particular focus on the interrelated issues of gender, sexuality, race, ethics, language, and power. Readings include Beauvoir, Irigaray, Djebar, and Brossard. Also offered as WGST 434. Not offered 2001–2002. Instructor: Huffer

FREN 452  ART, POLITICS, AND SOCIETY IN 19TH-CENTURY FRANCE (3-0-3)
Seminar on realism, impressionism, and “official” institutional culture. Taught in English. Also offered as HIST 452. Not offered 2001–2002. Instructor: Sherman

FREN 453  HISTORY AS TEXT IN MODERN FRANCE (3-0-3)
Undergraduate version of FREN 553. Also offered as HIST 453. Not offered 2001–2002. Instructor: Sherman

FREN 463  FROM MODERNITY TO POSTMODERNITY AND THE THIRD TECHNOLOGICAL REVOLUTION (3-0-3)
Undergraduate version of FREN 563. Prerequisites: FREN 301 and 311; or FREN 312, 372, or 387. Not offered 2001–2002. Instructor: Wood

FREN 464  LITERATURE AND PSYCHOANALYSIS (3-0-3)

FREN 467  THE POSTMODERN BREAK IN FRENCH PHILOSOPHY (3-0-3)
Undergraduate version of FREN 567. Prerequisites: FREN 301 and 312; or FREN 312, 372, or 387 or placement exam. Not offered 2001-2002. Instructor: Goux

FREN 468  FRENCH PHILOSOPHY (3-0-3)
Undergraduate version of FREN 568. Prerequisites: FREN 301 and 311 or 312. Not offered 2001–2002. Instructor: Goux

FREN 469  GENDER, WAR, AND REPRESENTATION IN MODERN ENGLAND AND FRANCE (3-0-3)
This course explores the rhetoric of war as a central component in the construction of modern gender roles. Topics will include representations of the body, constructions of history, the place(s) of memory and forgetting, and connections between “high” and “popular” culture. Limited enrollment. Also offered as ENGL 479, HIST 472, AND WGST 461. Not offered 2001–2002. Instructors: Michie, Sherman
FREN 473  “LA REVOLUTION TRANQUILLE”: HISTORY AND CULTURE OF QUEBEC (3-0-3)
Undergraduate version of FREN 573. Prerequisites: FREN 301, 304, FREN 311, 312, 372, or 387.
The undergraduate version of the seminar includes a writing practicum. Not offered 2001–2002.
Instructor: Aresu

FREN 474(F)  CONSTRUCTING IDENTITIES IN AND OUT OF FRANCE (3-0-3)
Undergraduate version of FREN 574. Prerequisites: FREN 301 and 312 or FREN 372. Not offered 2001–2002. Instructor: Aresu

FREN 476  TRADITION, IDENTITY, AND HISTORICAL WRITING (3-0-3)
Exploration of the intersection of cultural tradition, collective identity, and historical writing in
the modern West. Includes the uses made of the classical past in movements from Renaissance
humanism to contemporary Afrocentricism, the development of nationalist traditions, and the
creation of European identities through juxtapositions with other cultures. Limited enrollment.
Also offered as HIST 476. Instructors: Quillen, Sherman

FREN 477  THE MEANING OF THE SACRED IN FRENCH THOUGHT FROM SURREALISM TO THE PRESENT (3-03)
Undergraduate version of FREN 577. Prerequisites: FREN 301 and 311; or FREN 312, 372, or 387. Instructor: Wood

FREN 478  CONTEMPORARY FRENCH THOUGHT: TOWARD A SYMBOLIC ECONOMY (3-0-3)
Undergraduate version of FREN 578. Prerequisites: FREN 301 and 311; or FREN 312, 372, or 387. Not offered 2001–2002. Instructor: Goux

FREN 479  MARX, BATAILLE, BAUDRILLARD (3-0–3)
Undergraduate version of FREN 579. FREN 301 and 311; or FREN 312, 372 or 387. Not offered 2001–2002. Instructor: Wood

FREN 482  WESTERN TRADITIONS/POSTCOLONIAL CHALLENGES (3-0-3)
Undergraduate version of FREN 582. FREN 301 and 311; or FREN 312, 372 or 387. Not offered 2001–2002. Instructor: Aresu

FREN 483  SOCIOPOLITICAL INTERPRETATION OF LITERATURE (3-0-3)
Undergraduate version of FREN 583. Prerequisites: FREN 301 and 311 or 312. Not offered 2001–2002. Instructor: Goux

FREN 484  AESTHETIC THEORIES OF MODERNISM AND POSTMODERNISM (3-0-3)
Analysis of the crisis of “representation” and “subjectivity,” using French theories of aesthetic
modernism and postmodernism, with emphasis on arguments of the avant-garde (e.g., cubism,
abstraction, surrealism, structuralism, and “Tel Quel”) and parallelism between literature, paint-
ing, and theater (and occasionally cinema and architecture). Includes Delaunay, Valéry, Breton,
Instructor: Goux

FREN 485  THE NOVEL FROM BELLE EPOQUE TO 1950 (3-0-3)
Survey of the evolution of the novel and the vicissitudes of the modern subject and identity. In-
cludes Proust, Gide, Malraux, Drieu la Rochelle, de Beauvoir, Sartre, Genet, Camus, and Sarraute.
Prerequisites: FREN 301 and 312. Instructor: Wood

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
FREN 489 FEMININE AND MASCULINE IDENTITY (3-0-3)

FREN 490 FRENCH UTOPIANISTS (3-0-3)
Study of the most important utopianists (e.g., Cyrano de Bergerac, Fénelon, Fontenelle, Restif de la Bretonne, Mercier, Morelly, Fourier, Considérant, Cabet, and others). Includes sociological as well as psychoanalytical and philosophical interpretations of utopian discourse (e.g., Marx, Barthes, Ricoeur, and others). Prerequisites: FREN 301, 372 or 387. Not offered 2001–2002. Instructor: Goux

FREN 493 THE CULTURE OF MUSEUMS (3-0-3)
This course will explore the museum as a central institution of Western culture since the 18th century. Topics include the politics of collecting and display, the representation of national pasts and ethnic “others” in museums, exhibitions and the cultural marketplace, the museum as public space, and museums as sites of knowledge and classification of objects. Readings will be drawn from a variety of approaches, both historical and theoretical, and will be supplemented by working visits to Houston-area institutions. The scope of the course is comparative in terms both of institutions and of cultures, but special attention will be paid to art museums and to France. Also offered as HIST 470 and HART 493. Instructor: Sherman

IV. Graduate

FREN 500 THESIS RESEARCH (M.A.) (3-0-3)

FREN 503 SPECIAL TOPICS IN FRENCH STUDIES (3-0-3)

FREN 504 BEGINNINGS OF THE LANGUAGE AND LITERATURE OF FRANCE (3-0-3)
Study of the external history of the French language and the national attitude toward language in its cultural and artistic contexts. Includes a bibliographic component to acquaint students with library tools available for research, with emphasis on medieval resources but not excluding those for later periods. Provides reading knowledge of Old French. Instructor: Nelson

FREN 507 INTRODUCTION TO FRENCH FILM (3-0-3)

FREN 508 TOPICS IN FRENCH FILM
The course will deal with the screen adaptation of literary masterpieces from “The Princesse de Clèves” to “L’étranger.” Not offered 2001–2002. Instructor: Alcover

FREN 510 THE LITERARY AND HISTORICAL IMAGE OF THE MEDIEVAL WOMAN (3-0-3)

FREN 515 COURTLY LOVE IN MEDIEVAL FRANCE (3-0-3)
Examination of social, religious, philosophical, and historical aspects of the 12th century that combined to produce a new concept of love expressed first in Occitan lyric poetry and later in the poetry, lais, and romances of northern France. Included are medieval works based on this concept, such as lyric poetry of both langue d’oc and langue d’oil, the lais of Marie de France, and Le Chevalier à la charrette by Chrétien de Troyes, as well as works from later centuries that demonstrate the continuation of what has become a social construct. Not offered 2001–2002. Instructor: Nelson

(F) = fall; (S) = spring
FREN 530 FRENCH CLASSICISM (3-0-3)

FREN 534 FRENCH FEMINIST THEORY (3-0-3)

FREN 535 SEMINAR: 17TH- AND 18TH-CENTURY COMEDY (3-0-3)
Study of French comedy as a genre. Includes Corneille, Cyrano, Moliere, Regnard, Marivaux, and Beaumarchais, as well as critical works by d’Aubignac, Boileau, Diderot, Mauron, and Genette. Not offered 2001–2002. Instructor: Alcover

FREN 540 THE AGE OF ENLIGHTENMENT (3-0-3)
Study of the Enlightenment and the bourgeoisie. Includes works of major writers and painters of the age examined in their social context and in light of contemporary critical theory. Not offered 2001–2002. Instructor: Alcover

FREN 545 ENLIGHTENMENT AND COUNTER-ENLIGHTENMENT (3-0-3)
Survey of classic texts of the 18th century (e.g., Kant, Condorcet, and d’Holbach) and the anti-Enlightenment tradition (e.g., de Sade, the Romantic reaction, de Maistre, and Nietzsche). Includes a continuation of the debate in French and European thought (e.g., Sartre, Marxism, poststructuralism vs. Habermas, Adorno, ‘80s neoliberalism, and the return of the sacred in recent French thought). Taught alternately in French and English. Not offered 2001–2002. Instructor: Wood

FREN 553 HISTORY AS TEXT IN MODERN FRANCE (3-0-3)
Examination of major 19th- and 20th-century historical texts both as narratives about the French past and as discourses embodying particular attitudes toward contemporary society and politics. Includes the emergence of a “scientific” history of the Revolution (e.g., Michelet, Tocqueville, and Taine) and its relation to the historical novel, the Annales school and the question of French identity (e.g., Bloch and Braudel), and the politics of theory in recent French history (e.g., Foucault and Chartier). Taught in English. Readings in French or English. Also offered as HIST 553. Not offered 2001–2002. Instructor: Sherman

FREN 555 FROM NOSTALGIA TO HYSTERIA: BALZAC, STENDHAL, FLAUBERT, ZOLA (3-0-3)
A study of 19th-century fiction through its discourses of displacement — its depictions of nostalgia and of homelessness in the first half of the century and of the crowd, the flâneur, and hysteria in the second. Reading closely both primary and theoretical texts, we will focus on French narrative, but we will also consider texts by Baudelaire, Poe, and Gilman, as well as the paintings of Géricault. Instructor: Harter

FREN 559(F) MASTERPIECES OF FRENCH THEATER FROM CORNEILLE TO SATRE (3-0-3)
Graduate version of FREN 459.

FREN 561 DEVELOPMENTS IN FRENCH FEMINIST THEORY (3-0-3)
Study of recent French feminist theory, with emphasis on mapping out this critical perspective in both its ideological and its interpretive implications. Not offered 2001–2002. Instructors: Alcover, Harter, Wood

FREN 562 THE LYRIC GENRE FROM BAUDELAIRE TO BONNEFOY (3-0-3)
Study of the situation of the writing subject and strategies of representation in the modern lyric using Bonnefoy’s “La presence et l’image” as a point of departure. Includes Baudelaire, Rimbaud, Lautréamont, Breton, Perse, Ponge, and Bonnefoy. Not offered 2001–2002. Instructor: Aresu

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
FREN 563  FROM MODERNITY TO POSTMODERNITY AND THE THIRD TECHNOLOGICAL REVOLUTION (3-0-3)
Study of literary and philosophical postmodernity and feminism as both bearers and problematisers of the postindustrial revolution. Includes the services/information economy, dissolution of the nuclear family, the end of Oedipus, and the functionally adaptive feminization (or androgyny) of the work force. Taught alternately in French and English. Not offered 2001–2002. Instructor: Wood

FREN 564  LITERATURE AND PSYCHOANALYSIS (3-0-3)
Exploration of the ways in which literature and psychoanalysis have seemed most fruitfully to inform each other. Includes readings in primary literature as well as in Freud, Lacan, Cixous, Lacoue-Labarthe, Silverman, Jameson, Felman, and Bersani. Not offered 2001–2002. Instructor: Harter

FREN 566  THE NARRATIVE AND THE OTHER ARTS (3-0-3)

FREN 567(F)  THE POSTMODERN BREAK IN FRENCH PHILOSOPHY (3-0-3)

FREN 568  FRENCH PHILOSOPHY (3-0-3)
Survey of moral philosophy from Descartes to today, exploring the relationship between the individual and society, the problem of freedom and values, questions of universality, humanism, and important moments of the constitution and deconstitution of the subject. Includes philosophy of Descartes, Rousseau, Condorcet, Comte, Guyau, Durkheim, Fouillée, Bergson, Alain, Camus, Sartre, de Beauvoir, Lacan, Irigaray, Foucault, Lévinas, and Ricoeur. Instructor: Goux

FREN 570  TOPICS IN FRENCH CULTURAL HISTORY (3-0-3)
A theoretical and methodological exploration of various approaches to, and issues in, the study of French and European cultures since the 18th century. Topics vary from year to year. Taught in English. Also offered as HIST 570. Instructor: Sherman

FREN 572  PROUST (3-0-3)
Extensive close textual readings and broad-ranging meditations on the meaning of *A la recherche du temps perdu* in terms of the history of artistic modernism and social modernity. Taught alternately in French and English. Instructor: Wood

FREN 573  “LA REVOLUTION TRANQUILLE”: HISTORY AND CULTURE OF QUEBEC (3-0-3)
Although focusing on the postwar period, the seminar will cover the history and culture of Quebec from the 18th century to the present. The seminar will concurrently address issues of language and cultural identity and examine the current debate on the notion of distinct society. Seminar material will include such figures as Hemon, Carrier, Godbout, Maillet, and Hebert (literature); Pellan, Riopelle, and Bourduas (art); and Jutra and Arcand (cinema). Not offered 2001–2002. Instructor: Aresu
FREN 574(F) CONSTRUCTING IDENTITIES IN AND OUT OF FRANCE (3-0-3)
A proseminar, the course will study the various modes of negotiation and construction of identity at work in selected Francophone works (literature, essays, film, painting). The seminar will include selected essays by Borduas, Fanon, Memmi, and Khatibi, as well as literature, films, and paintings from Kane, Kourouma, and Labou Tansi (Sub-Sahara), Condé (Caribbean), Issiakhem, Cherkaoui, Mimouni, and Djebbar (Maghreb), Bouraoui and Sebbar (France), Jutra, Aquin, Blais, and Hébert (Québec). The course is open to non-French majors, although a reading knowledge of French is recommended since not all reading selections may be available in translation. Instructor: Aresu

FREN 575 FLAUBERT AND SARTRE: “L’IDIOOT DE LA FAMILLE” (3-003)
Exploration, through close readings of Flaubert (the major novels and juvenilia) and Sartre’s biography of Flaubert, of the theoretical problems entailed in simultaneously mobilizing Marxism, sociology, psychoanalysis, literary history, and literary critical analysis. Includes comparison of late Sartre with poststructuralist accounts of the construction of the subject. Taught alternately in French and English. Not offered 2001–2002. Instructor: Wood

FREN 577 THE MEANING OF THE SACRED IN FRENCH THOUGHT, FROM SURREALISM TO THE PRESENT (3-0-3)
Examination of the reasons for, and significance of, the rise of a post-theological notion of the sacred in modernity. Includes surrealism, Collège de sociologie, Sartre, Levinas, Girard, Tournier, Derrida, and others, as well as postmodern theology and cosmology. Taught alternately in French and English. Not offered 2001–2002. Instructor: Wood

FREN 578 CONTEMPORARY FRENCH THOUGHT: TOWARD A SYMBOLIC ECONOMY (3-0-3)
Exploration of the idea of a “symbolic economy” that widens and transforms notions of production, exchange, and consumption in anthropology, semiotics, psychoanalysis, and literature. Includes Mauss and Levi-Strauss (on “exchange of goods,” “exchange of words,” and “exchange of women”), later developments of Bataille, Lacan, Baudrillard, Irigaray, and others, and the theory and practice of “economic criticism” (e.g., Balzac, Zola, Gide, and others). Not offered 2001–2002. Instructor: Goux

FREN 579 MARX, BATAILLE, BAUDRILLARD (3-0-3)
Exploration of the shift in French thought in the 20th century from a Marxist political economy of class struggle and exploitation, through Bataille’s “general economy” (e.g., economic activity as a cosmic phenomenon), to Baudrillard’s “indetermination of the code” and “simulation” in postmodernity. Not offered 2001–2002. Instructor: Wood

FREN 580 CONTEMPORARY FRENCH THEORY: THE CASE OF GILLES DELEUZE (3-0-3)
This course provides an advanced introduction to Deleuze’s work, from the earliest writings to the final period. Emphases: Deleuze’s relation to the philosophical tradition, his differences from and similarities to other French “poststructuralists,” and the uses to which his work has been put by others. Taught in English. Not offered 2001–2002. Instructor: Wood

FREN 581 CONTEMPORARY FRENCH THEORY: THE CASE OF GILLES DELEUZE (3-0-3)
Continuation of FREN 580. Taught in English. Instructor: Wood
FREN 582  WESTERN TRADITIONS/POSTCOLONIAL CHALLENGES (3-0-3)
Study of discourses of cultural affiliation, representations of exile and exoticism, and strategies of expression of transcultural experience in modern literature, painting, and film from Africa, the Caribbean, and France. Includes Memmi and Kane (on acculturation), Anderson and Bhabha (on nationalism and hybridity), Gauquelin and Segalen (on exile), and Fromentin, Delacroix, and Djebar (on the exotic gaze), as well as Oyono, Sembene, Alloula, Pelegri, Camus, and Saint-John Perse, among others. Not offered 2001–2002.  Instructor: Aresu

FREN 583  SOCIOPOLITICAL INTERPRETATION OF LITERATURE (3-0-3)

FREN 584(S)  AESTHETIC THEORIES OF MODERNISM AND POSTMODERNISM (3-0-3)
Analysis of the crisis of “representation” and “subjectivity,” using French theories of aesthetic modernism and postmodernism, with emphasis on arguments of the avant-garde (e.g., cubism, abstraction, surrealism, existentialism, structuralism, and “Tel Quel”) and parallelism between literature, painting, and theater (and occasionally cinema and architecture). Includes Delaunay, Valéry, Breton, Artaud, Sartre, Barthes, Sollers, and Lyotard. Not offered 2001–2002.  Instructor: Goux

FREN 585(S)  NOVEL, FROM BELLE EPOQUE TO 1950 (3-0-3)

FREN 586  MODERN LITERATURE AND LITERARY THEORY: TOWARDS AN AESTHETICS OF THE FRAGMENTARY (3-0-3)
Study of the ways in which fragmentation, both as an epistemological and a linguistic phenomenon, has become a crucial perspective through which to view not only literary but also philosophical and theoretical texts in the modern/postmodern period. Includes Baudelaire, Flaubert, Breton, Beckett, and Barthes. Not offered 2001–2002.  Instructor: Harter

FREN 587  20TH-CENTURY NOVEL IN FRENCH (3-0-3)
Graduate version of FREN 487.  Instructor: Huffer

FREN 588  EVOLUTION OF THE NOVEL (3-0-3)

FREN 594(S)  THE WRITINGS OF MICHEL FOUCAULT
The seminar will involve readings of both Foucault’s work and of works in various disciplines that make use of Foucault’s works to further different kinds of theoretical, critical, historical, and political projects. The goal is to assess ways particular readings (or misreadings) of Foucault have helped to shape the human sciences in the past two decades. Questions of the boundaries between disciplines, of what constitutes “theory” and its relationship to disciplinary paradigms, and of the relationship of theory to research are among those the seminar will address. Students will be asked to write a substantial paper making use of Foucault in their research. Not offered 2001–2002.  Instructor: Huffer
GERM–German

The School of Humanities/Department of German and Slavic Studies

**GERM 101(F)  INTRODUCTION TO GERMAN LANGUAGE AND CULTURE I (3-2-5)**

Proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.) and developing all four communicative skills (reading, writing, speaking, listening) as well as cultural competence. Students should achieve a minimum proficiency level of novice high/intermediate low by the end of 101. Must complete GERM 102 to receive credit for GERM 101. **Instructors: Gaug, Spuler, Staff**

**GERM 102(S)  INTRODUCTION TO GERMAN LANGUAGE AND CULTURE (3-2-5)**

Proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.) and developing all four communicative skills (reading, writing, speaking, listening) as well as cultural competence. Students’ proficiency by the end of 102 should indicate clear progress toward the level of Intermediate Low. **Instructors: Gaug, Spuler, Staff**

**GERM 103  INTRODUCTION TO GERMAN LANGUAGE AND CULTURE (6-2-10)**

Single summer course equivalent to combined GERM 101 and 102. **Instructor: Staff**

**GERM 111(F)  GERMAN FOR READING KNOWLEDGE (3-1-4)**

Content varies from year to year. May be repeated for credit. **Instructor: Staff**

**GERM 112(S)  GERMAN FOR READING IN THE HUMANITIES (3-1-4)**

Content varies from year to year. May be repeated for credit. **Instructor: Staff**

**GERM 113  BEGINNING GERMAN FOR ENGINEERING AND SCIENCES I (3-2-5)**

Single summer course offered in August. Intensive introductory German for students in engineering or in the sciences. Focus on communicative competence, cultural awareness, and engineering and science-related content. Multimedia integration. 6 hours daily; M-F, 3 week session. Approval of instructor required. **Instructor: Roddy**

**GERM 114(F)  BEGINNING GERMAN FOR ENGINEERING AND SCIENCES II (3-2-5)**

Continuation of introduction to German for students in engineering or the sciences. Focus on communicative competence, cultural awareness, and engineering and science-related content. Multimedia integration. Prerequisite: GERM 113 or GERM 101. Approval of instructor required. **Instructor: Roddy**

**GERM 201(F)  INTERMEDIATE GERMAN LANGUAGE AND CULTURE I (3-1-4)**

Continued proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.) and further developing all four communicative skills (reading, writing, speaking, listening) as well as cultural competence. Students should achieve a minimum proficiency level of intermediate low by the end of 201. **Instructors: Eifler, Spuler, Triebel**

**GERM 202(S)  INTERMEDIATE GERMAN LANGUAGE AND CULTURE (3-1-4)**

Continued proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.) and further developing all four communicative skills (reading, writing, speaking, listening) as well as cultural competence. Students should achieve a minimum proficiency level of intermediate mid by the end of 202. **Instructors: Spuler, Staff**

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
GERM 206  INTERMEDIATE GERMAN LANGUAGE AND CULTURE (6-0-8)
Single summer course equivalent to combined GERM 201 and GERM 202. Instructor: Staff

GERM 209  INDEPENDENT STUDY (3-0-3)
Content varies depending on student interests and the availability of instructors. Instructor: Staff

GERM 213(S)  INTERMEDIATE GERMAN FOR ENGINEERING AND SCIENCES I (3-1-5)
Intermediate German for students in engineering and the sciences. Expansion of engineering and science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. Prerequisite: GERM 114 or GERM 102. Approval of instructor required. Instructor: Roddy

GERM 214  INTERMEDIATE GERMAN FOR ENGINEERING AND SCIENCES II (3-1-5)
Single summer course offered in May. Intensive intermediate German for students of engineering and the sciences. Expansion of engineering and science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. 6 hours daily; M-F, 3 week session. Prerequisite: GERM 213 or GERM 201. Approval of instructor required. Instructor: Roddy

GERM 301  SCIENTIFIC GERMAN (3-0-3)
Readings of reports of current scientific research in Germany, supplemented by films. Include independent readings in the student’s chosen field. Prerequisite: second year competence. Not offered 2001–2002. Instructor: Staff

GERM 302(S)  ADVANCED GERMAN FOR THE PROFESSIONS (3-0-3)
Focus on reading, writing, speaking and listening comprehension skills in the context of German science and technology. Prerequisite: second year competence. Instructor: Steiner

GERM 303  COMMERCIAL GERMAN (3-0-3)
Introduction to contemporary German economic texts and European contexts of potential use in an international business career, with emphasis on the specific economic language and situations of German business practices. Prerequisite: second-year competence or permission of instructor. Not offered 2001–2002. Instructor: Eifler

GERM 305(F)  COMPOSITION AND CONVERSATION I (3-0-3)
Further proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.). Special attention to developing writing and speaking proficiencies. Students should demonstrate solid progress toward a proficiency level of intermediate high by the end of 305. Prerequisite: GERM 202 or equivalent and permission of instructor. Instructor: Spuler

GERM 306(S)  COMPOSITION AND CONVERSATION II (3-0-3)
Further proficiency-based language instruction employing a variety of interactional contexts (partner work, reports, interviews, dialogues, games, computer programs, videos, etc.). Special attention to developing writing and speaking proficiencies. Students should demonstrate proficiency at or near the level of intermediate high by the end of 306. Prerequisite: GERM 202 or equivalent and permission of instructor. Students are also strongly encouraged to complete GERM 305 before taking GERM 306. Instructor: Kecht

GERM 311(F)  SURVEY OF GERMAN LITERATURE I (3-0-3)
An introduction to the major social and cultural developments in Germany from 1750 to 1850, the period which marks the emergence of a specifically German cultural identity. The course will focus on the changed relationship of the individual to the state, the community, and the environment that accompany the intellectual, political, social, and technological revolutions of the period. Readings will encompass works by Lessing, Goethe, Kant, Schiller, Kleist, Bettina von Arnim, Büchner, and Heine. Prerequisite: third year competence. Instructor: Steiner
GERM 312(S) 20TH-CENTURY GERMAN LITERATURE AND CULTURE: A TEXTUAL AND VISUAL SURVEY (3-0-3)
German history and culture during the 20th century have been rather turbulent: From Wilhelminian empire to Weimar democracy to Hitler fascism to socialist division to reunification to entry into the European Union. All these political changes will be commented on by cultural reflections in textual and visual forms. The course will provide a multi-medial retrospective via literature, autobiographies, documentaries, videos and Internet informations. Texts will include Mann, Kafka, Boell, Grass, Wolf and Maron. Course will be taught in German only. Instructor: Eifler

GERM 322(F) SPECIAL TOPICS: LET'S GO WEST—NARRATIVE STRUCTURES IN GERMAN MYTHS OF AMERICA
Critical analysis of German literature, film, journalist writing and advertisement on their impact in a cultural production of concepts of “Amerika.” The readings will cover texts from the background of early 19th century immigration up to recent movies. Assignments according to proficiency level. Prerequisite: third year competence. Instructor: Triebel

GERM 323(S) THE SPATIALITY OF THE PUBLIC SPHERE—LITERARY FUNCTIONS OF BUILDINGS AND RUINS IN GERMAN LITERATURE
The course will explore, how by means of literary productions and the motive of buildings in particular, concepts of the Public Sphere are constructed. Guiding questions are the delineation of public/private life, the separation of state and people, the construction of social cohesion and the function of symbolic space as representation of power. Assignment according to proficiency level. Instructor: Triebel

GERM 341(S) THE AGE OF GOETHE: EARLY ROMANTICISM—LOOKING BACK TO MODERNITY (3-0-3)
While reading texts written by German romantics, such as Novalis or Friedrich Schlegel, one can easily get the impression, that these authors were anything else but ‘romantic’, at least in a common understanding of the word. For the romantics, particularly in poetry, the concept of Romanticism was not definite but programmatic. For them to think about poetry became part of their understanding of poetry. And just in this; becoming critical and ironical, poetry became romantic, which is, in other words: modern. Reading and discussing theoretical and poetical texts by F. Schlegel, Novalis, Tieck, and Schleiermacher the course is looking for the origins of modernity in Romanticism. Instructor: Steiner

GERM 342 ROMANTICISM AND REALISM (3-0-3)
Exploration of how fantastic and grotesque events in Romanticism (e.g., Kleist, E.T.A. Hoffmann, “Bonaventura,” and Eichendorff) or realism (e.g., Keller), which once reaffirmed a metaphysical world order, changed with the turn of the century and the beginning of modernity to demonstrate the opposite, namely the absurdity of life (e.g., Durrenmatt and Weiss). Not offered 2001–2002. Instructor: Weissenberger

GERM 371 GERMANY DURING THE WEIMAR REPUBLIC, 1919–1933 (3-0-3)
Study of the various contradictory cultural phenomena (e.g., literature, fine arts, social theory, political ideologies, and mass entertainment) present during Germany’s first republic, with emphasis on the role of Berlin as a new cultural metropolis and tensions between “elitist modernism” and “proto-fascist traditions.” Not offered 2001–2002. Instructor: Staff

GERM 372(F) GERMAN LITERATURE SINCE 1945–1989 (3-0-3)
GERM 375(S)  CONTEMPORARY GERMANY FROM POSTWAR TO POSTUNIFICATION IN FILM (3-0-3)
West and East German filmmakers have produced an impressive body of films that deal with how they came to grips with their fascist past, how they perceived their ideologically different environments and how they view their new generational identity. We will see samples from the New and Young German Cinema as well as recent releases from the East German film company DEFA that produced thousands of films between 1946 and 1990, most of which have never been seen outside of the GDR. Course will be taught in English. All films are subtitled in English. 
Instructor: Eifler

GERM 378(F)  NEW GERMAN CINEMA (3-0-3)
From the 1960’s to 2000 Germany has developed a very distinct auteur cinema with independent filmmakers such as Fassbinder, Herzog, Wenders, Adlon, Trotta Sander, Brueckner, Doerrie, Garnier, Tykwer and others. The first 20 years of German film were oriented on coming to terms with the fascist past, the second 20 years focused on more contemporary issues. Film critical readings and class discussions in English. All films are subtitled in English and will be assessed with podium technology. Also offered as HUMA 373 and WGST 361. Not offered 2001–2002. 
Instructor: Eifler

GERM 381(S)  DISCOURSE IN ALIENATION: FROM KAFKA TO THE HOLOCAUST 1910–1945 (3-0-3)
The socio-political and economic upheaval on the one hand and the religious and intellectual one on the other, which mark this period, manifest themselves in literature between the poles of artistic experimentation (expressionism, Kafka, Musil) and a forced ideological stabilization (fascism); Holocaust literature reflects the ultimate clash between these principles. This course is open to all and will be taught in English. German majors may complete readings and papers in German. Also offered as GMAN 321 and HUMA 370. Not offered 2001–2002. 
Instructor: Weissenberger

GERM 391(S)  SPECIAL TOPIC: GERMAN CULTURE AND CIVILIZATION IN THE 20TH CENTURY (3-0-3)
The course traces distinctly German developments in 20th-century society and culture. Readings and discussions (in English) will draw on a broad range of sources, including film, but with emphasis on literary texts (in translation). The major focus will be the German response to the challenges of modernity. Also offered as GMAN 376. 
Instructor: Winkler

GERM 392(S)  SPECIAL TOPIC: GERMAN FAIRY TALE—OLD AND NEW (3-0-3)
Discussion of several prototypes from the fairy-tale collection of the Brothers Grimm and the subsequent development of the “literary” fairy tale from Goethe and the romantics to the 20th century. Taught in German. Also offered as GMAN 392 and HUMA 371. 
Instructor: Weissenberger

GERM 395(F)  GERMAN SOCIETY AND POLITICS
This course offers an introduction to German society and politics after World War II, concentrating on the period since unification. It contrasts the political, economic, and cultural development of what became two quite different societies, West and East Germany. Finally, the course investigates the political, cultural and economic challenges of unification and globalization on German society. Also offered as SOCI 397. 
Instructor: Kreutzer

GERM 401/402 INDEPENDENT WORK IN GERMAN LITERATURE (3-0-3)
Qualified students work on projects of their choice under the supervision of individual instructors with approval of the undergraduate adviser. 
Instructor: Staff

GERM 403/404 HONOR THESIS (3-0-3)
Independent research projects by outstanding German majors leading to a substantial honors essay, undertaken in close cooperation with a departmental faculty member, who must first approve the thesis proposal. 
Instructor: Staff
GERM 405(S)  TOPICS IN MODERN GERMAN HISTORY (3-0-3)
The social, political, and cultural history of the German Democratic Republic, 1945–1989. Also offered as HIST 459. *Instructor: Staff*

GERM 411(F)  SEMINAR IN CONTINENTAL PHILOSOPHY (3-0-3)
Close study of selected topics and figures in 20th-Century European philosophy, in particular the phenomenology of Edmund Husserl and Martin Heidegger and its dissemination in movements such as existentialism, hermeneutics, and deconstruction. Topics vary from year to year. Also offered as PHIL 508. Not offered 2001–2002. *Instructor: Crowell*

GERM 412  SPECIAL TOPIC (3-0-3)
Basic reading in language and literature taught in German. Open to graduate students for credit. Not offered 2001–2002. *Instructor: Staff*

GERM 421  SPECIAL TOPICS IN GERMAN LITERATURE (3-0-3)
Basic reading in language and literature taught in German. Open to graduate students for credit. Not offered 2001–2002. *Instructor: Staff*

GERM 422(S)  SOCIAL SPACE, NATION AND IDENTITY (3-0-3)
This course will explore how authors from a range of historical eras use prose to construct social space and, thereby, delineate national, class and personal identity. Authors considered will likely include but not be limited to Herder, Fichte, Goethe, Fontane, T. Mann, C. Wolf. Not offered 2001–2002. *Instructor: Staff*

GERM 431  ADVANCED STYLISTICS (3-0-3)
Analyses of different narrative styles. Prerequisite: GERM 305 or permission of instructor. Not offered 2001–2002. *Instructor: Staff*

GERM 432  SPECIAL TOPICS IN GERMANIC LINGUISTICS (3-0-3)
Study of early German literature from the 12th and 13th centuries and the Eddic poetry of Germanic mythology. Not offered 2001–2002. *Instructor: Staff*

GERM 433  LINGUISTIC STRUCTURE OF GERMAN (3-0-3)
Synchronic study of modern German phonology, syntax, and semantics, including aspects of discourse structure. Also offered as LING 433. Not offered 2001–2002. *Instructor: Staff*

GERM 434  HISTORY OF THE GERMAN LANGUAGE (3-0-3)
Survey of aspects of the history of German phonology, syntax, and semantics (with related systems) from its proto-Indo-European origins to the present. Also offered as LING 434. Not offered 2001–2002. *Instructor: Staff*

GERM 436  SPECIAL TOPICS: HARTMANN VON AUE (3-0-3)
Study of readings in the original 13th-century language of works by Hartmann von Aue, the most prolific writer of the first golden age of German literature. Includes selections from his Arthurian romances (e.g., Erec and Iwein), his religious fiction (e.g., Gregorius and Der arme Heinrich), and his Minnesang love poetry. Prerequisite: third-year competence. Not offered 2001–2002. *Instructor: Staff*

GERM 437  ADAPTATIONS: FROM TEXT TO FILM (3-0-3)
Many novels and short stories by prominent German writers have been brought to the screen. This course will focus on works by Kafka, Doeblin, Mann, Grass, Boell, Frisch, Bachmann and others. Questions will be assessed such as what have the two media in common, how do they express differently, and how should the literary author versus the film director be perceived. Interpretative readings and class discussions in English. German majors may read and write in German. Also offered as GMAN 406. Not offered 2001–2002. *Instructor: Eifler*
GERM 454  GERMAN WOMEN AUTHORS (3-0-3)
Critical analysis of literature and films by German-speaking feminists in theoretical and socio-political contexts. Includes writers such as Bachmann, Wolf, Morgner, Maron, and Jelinek, as well as filmmakers such as Sander, Bruckner, Export, and Treut. May be repeated for credit. Not offered 2001–2002. Instructor: Eifler

GERM 500  GRADUATE RESEARCH (hours variable)
Graduate research and thesis in partial fulfillment for the degree of Master of Arts.

GERM 510(F)  SEMINAR: TOPICS IN LANGUAGE METHODOLOGY (3-0-3)

GERM 511  TEACHING GERMAN: PRAXIS AND THEORY (hours variable)
Practical and theoretical considerations of foreign language teaching methodologies, instructional planning and evaluation, textbook evaluation and use, testing methods and design, and course planning. Peer instruction observations required. With approval of the graduate advisor. Instructor: Staff

GERM 512  GRADUATE INDEPENDENT WORK (hours variable)
Prerequisite: approval of the graduate adviser. Instructor: Staff

GERM 521  SPECIAL TOPIC (3-0-3)

GERM 522  SPECIAL TOPIC (3-0-3)
Study of the language and literature of the Old High German period (8th to 11th centuries). Includes texts from the pagan and the monastic traditions. Not offered 2001–2002. Instructor: Staff

GERM 526  SPECIAL TOPIC (3-0-3)
Exploration of specific aspects and problems of medieval literature. The topics vary from year to year. May be repeated for credit. Not offered 2001–2002. Instructor: Staff

GERM 531  LINGUISTIC STRUCTURE OF GERMAN (3-0-3)
Synchronic study of modern German syntax, phonology, and semantics, including discourse structure. Also offered as LING 433. Not offered 2001–2002. Instructor: Staff

GERM 532  HISTORY OF THE GERMAN LANGUAGE (3-0-3)

GERM 561  LITERARY THEORY (3-0-3)

GERM 563  LITERARY GENRES: NON-FICTIONAL PROSE IN EXILE (3-0-3)

GERM 565  SPECIAL TOPIC: CONTEMPORARY GERMAN LITERATURE (3-0-3)
Contents varies from year to year. The course will discuss authors such as Thomas Bernhard, Friedrich Delius, Max Frisch, Botho Strauß, Peter Weiss, etc. Not offered 2001–2002. Instructor: Staff
GERM 566  SPECIAL TOPIC: TURN-OF-THE-CENTURY LITERATURE (3-0-3)
Examination of specific aspects, problems, and authors of the period. Not offered 2001–2002. Instructor: Staff

GERM 571  THE RISE OF THE MODERN NOVEL (3-0-3)
The course will examine the rise of the modern novel in Germany during the Enlightenment and trace developments into the first half of the 19th century, with emphasis on changing notions of subjectivity. May be repeated for credit. Not offered 2001–2002. Instructor: Staff

GERM 572  GERMANY DURING THE WEIMAR PERIOD 1919–1933 (3-0-3)

GERM 578  SPECIAL TOPICS (3-0-3)

GERM 591  CONTEMPORARY GERMANY: RESULTS OF POSTUNIFICATION (3-0-3)
Review of heated German cultural debates current during “Abwicklung” (the changeover from East to West), with emphasis on an assessment of contextual aspects such as the sudden surge of biographical writing by former GDR authors (e.g., Kant, De Bruyn, and Muller), the unexpectedly numerous STASI-involvements, and the DEFA-film termination. Includes analyses of postunification literature, particularly the work of Wolf and Grass. Not offered 2001–2002. Instructor: Eifler

GERM 592  SELECTED PROBLEMS IN MODERN LITERATURE (3-0-3)
Content varies from year to year. Not offered 2001–2002. Instructor: Eifler

GERM 595(F)  GERMAN SOCIAL AND CULTURAL THEORY
This course will offer an introduction to the central currents and major theorists in contemporary German social and cultural theory. These will include critical theory (Habermas), system theory (Luhmann), theories of reflexive modernization and individualization (Beck), actor-centered-institutionalism (Mayntz/Scharpf), and cultural theories (Luckmann). Also offered as SOCI 490. Instructor: Kreutzer

GERM 600  GRADUATE RESEARCH (hours variable)
Prerequisite: approval of the graduate adviser.

GERM 611(S)  LANGUAGE METHODOLOGY PRACTICUM (hours variable)
The course, a continuation of GERM 510, allows students to gain further knowledge and expertise in aspects of language methodology by attending a series of workshops on topics such as technology and language learning, writing and content-based instruction. Students will also complete assignments that supplement or expand on the material presented in the workshops. Not offered 2001–2002. Instructors: Barlow, Kecht

GERM 700  GRADUATE SUMMER RESEARCH (hours variable)
Prerequisite: approval of the graduate adviser.

GERM 800  GRADUATE RESEARCH (hours variable)
Graduate research and dissertation in partial fulfillment of the requirements for the degree of doctor of philosophy.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
Germanics (GMAN) [Taught in English]

The School of Humanities/Department of German and Slavic Studies

GMAN 313 NATIONAL SOCIALISM AND EXILE (3-0-3)

GMAN 314 WEIMAR REPUBLIC AND THE AVANT-GARDE (3-0-3)

GMAN 321(F) DISCOURSE IN ALIENATION: FROM KAFKA TO THE HOLOCAUST 1910–1945 (3-0-3)
The socio-political and economic upheaval on the one hand and the religious and intellectual one on the other, which mark this period, manifest themselves in literature between the poles of artistic experimentation (expressionism, Kafka, Musil) and a forced ideological stabilization (fascism); Holocaust literature reflects the ultimate clash between these principles. This course is open to all and will be taught in English. German majors may complete readings and papers in German. Also offered as GERM 321 and HUMA 370. Not offered 2001–2002. Instructor: Weissenberger

GMAN 351(S) MYTHS OF MODERN INDIVIDUALISM: FAUST AND DON JUAN (3-0-3)
The course will examine the relevance of myth for modern culture, using the figures of Faust and Don Juan as primary examples. Readings of a few major works (by Goethe, Mozart, Thomas Mann, and others) in translation; discussions in English. Emphasis also on representations in visual arts and music. Also taught as HUMA 371. Instructor: Winkler

GMAN 355(F) SPECIAL TOPIC: YOUNG GOETHE: FROM LITERARY REVOLUTION TO WORLD LITERATURE (3-0-3)
In Germany in the 18th century, according to Walter Benjamin, revolutionaries were not enlightened and those who were enlightened were no revolutionaries. Goethe’s beginnings can be understood in this context. Like nobody else he has overthrown established rules—yet not those of society but those of poetry. Thus in his poetry of this early period, only the expression but not the success of protest is celebrated. On the other hand, Werther, which is an excellent example to illustrate this observation, became Goethe’s lifelong best-selling book, at the edge of classicism preparing the ground for the novel to become part of the canon of world literature. By reading selected biographical, theoretical, and poetical writings, the course will reconstruct the development of young Goethe, which finally culminated in the success of Werther. In order to illuminate the theoretical background readings include texts by Herder and Rousseau’s first discourse. This course will be taught in English. Also offered as HUMA 376. Instructor: Steiner

GMAN 361 IMPERIAL SPLENDOR MADE IN AUSTRIA: THE HABSBURG MONARCHY (3-0-3)
Habsburg dynasty ruling Austria from 1278–1918. Analyzes forces, which brought the collapse of the multinational, dynastic state of the Habsburgs at the beginning of the 20th century. Special emphasis on diverse cultural manifestations in music, architecture, fine arts, and literature. Not offered 2001–2002. Instructor: Kecht

GMAN 362(F) SPECIAL TOPIC: GERMAN NOBEL PRIZE LAUREATES (3-0-3)
The text and film study of four German Literary Nobel Prize winners of the 20th century: Thomas Mann, Hermann Hesse, Heinrich Boell and Gunter Grass. Analyses of some of their most famous novels into film. German majors are encouraged to read and write in German, class discussions are in English, films will be subtitled in English. Instructor: Eifler
GMAN 376(S)  SPECIAL TOPIC: GERMAN CULTURE AND CIVILIZATION IN THE 20TH CENTURY (3-0-3)
The course traces distinctly German developments in 20th-century society and culture. Readings and discussions (in English) will draw on a broad range of sources, including film, but with emphasis on literary texts (in translation). The major focus will be the German response to the challenges of modernity. Also taught as GERM 391. Instructor: Winkler

GMAN 391(F)  NEW GERMAN CINEMA (3-0-3)
From the 1960’s to 2000 Germany has developed a very distinct auteur cinema with independent filmmakers such as Fassbinder, Herzog, Wenders, Adlon, Trotta Sander, Brueckner, Doerrie, Garnier, Tykwer and others. The first 20 years of German film were oriented on coming to terms with the fascist past, the second 20 years focused on more contemporary issues. Film critical readings and class discussions in English. All films are subtitled in English and will be assessed with podium technology. Not offered 2001–2002. Instructor: Eifler

GMAN 392(S)  SPECIAL TOPIC: GERMAN FAIRY TALE—OLD AND NEW (3-0-3)
Discussion of several prototypes from the fairy-tale collection of the Brothers Grimm and the subsequent development of the “literary” fairy tale from Goethe and the romantics to the 20th century. Taught in German. Also offered as GERM 392. Instructor: Weissenberger

GMAN 395(S)  GERMAN SOCIAL ISSUES
This course focuses on contemporary social problems in Germany. Content varies from year to year. Also offered as SOCI 393. Instructor: Kreutzer

GMAN 402  WOMEN FILMMAKERS: A 20TH-CENTURY RETROSPECTIVE (3-0-3)
The course will concentrate on films by European and American women directors, taking into account historical pioneering, cultural identities, aesthetic particularities, gender commitment, subject orientations and post-feminist attempts. Importance will also be given to the contexts and conditions of women’s film production. Class discussions will be in English and all films viewed will be in English or with English subtitles. German majors are expected to concentrate on a final paper on women directors in German Cinema. Also offered as WGST 358. Please consult Eifler webpage for further information. Not offered 2001–2002. Instructor: Eifler

GMAN 406  ADAPTATIONS: FROM TEXT TO FILM (3-0-3)
Many novels and short stories by prominent German writers have been brought to the screen. This course will focus on works by Kafka, Doeblin, Mann, Grass, Boell, Frisch, Bachmann and others. Questions will be assessed such as what have the two media in common, how do they express differently, and how should the literary author versus the film director be perceived. Interpretative readings and class discussions in English. German majors may read and write in German. Also offered as GERM 437. Not offered 2001–2002. Instructor: Eifler

GMAN 565  LITERARY GENRES: NON-FICTONAL PROSE IN EXILE (3-0-3)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
**Greek (GREE)**

The School of Humanities/Department of Hispanic and Classical Studies

**GREE 101(F)  INTRODUCTION TO ANCIENT GREEK I (3-0-3)**
Introduction to fundamentals of ancient Greek, with emphasis on the acquisition of reading skills. Second semester must be completed to receive credit for GREE 101. **Instructor: George**

**GREE 102(S)  INTRODUCTION TO ANCIENT GREEK II (3-0-3)**
Continuation of GREE 101. **Instructor: George**

**GREE 201(F)  INTERMEDIATE GREEK I: PROSE (3-0-3)**
Review of forms and syntax readings of selections from Demosthenes: *On the Crown*. **Instructor: George**

**GREE 202(S)  INTERMEDIATE GREEK II: POETRY (3-0-3)**
Further study of grammar and syntax and reading of classical Greek poetry, Homer’s *Odyssey*. **Instructor: Mackie**

**GREE 301(F)  ADVANCED GREEK I (3-0-3)**

**GREE 302(S)  ADVANCED GREEK II (3-0-3)**

**GREE 491(F)  DIRECTED READING (3-0-3 each semester)**
**GREE 492(S)**
Independent work for qualified juniors and seniors in genres or authors not presented in other courses. **Instructors: (F) Yunis, (S) Mackie**

**History of Art and Architecture (HART)**

The School of Humanities/Department of Art and Art History

**HART 101(F)  INTRODUCTION TO THE HISTORY OF WESTERN ART I: PREHISTORIC TO GOTHIC (4-0-4)**
Survey of painting, sculpture, and architecture from the Paleolithic period to the 15th century. One additional hour of tutorial per week assigned during first week. Required for art history majors. Also offered as MDST 111. **Instructor: Staff**

**HART 102(S)  INTRODUCTION TO THE HISTORY OF WESTERN ART II: RENAISSANCE TO PRESENT (4-0-4)**
Survey of painting, sculpture, and architecture from the Renaissance through the 20th century. One additional hour of tutorial per week assigned during first week. Required for art history majors. **Instructor: Staff**

**HART 103(S)  INTRODUCTION TO ASIAN ART (3-0-3)**
Survey of the art of Asia from the Neolithic period to the present. Not offered 2001–2002.

**HART 207  SPECIAL TOPICS (hours variable, usually 3-0-3)**
Special topics and new courses. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. **Instructor: Staff**

**HART 208  SPECIAL TOPICS (hours variable, usually 3-0-3)**
Special topics and new courses. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. **Instructor: Staff**

(F) = fall; (S) = spring
HART 209  **INDEPENDENT READING** (hours variable, usually 3-0-3)
Independent study, reading, or special research in art history at the introductory level. Prerequisite: permission of instructor.  *Instructor: Staff*

HART 240  **ART IN CONTEXT: LATE MEDIEVAL AND RENAISSANCE CULTURE** (3-0-3)
This course will be concerned with the art, architecture, and history of the late Middle Ages and Renaissance. We will employ historical texts, literature, and illustrations of works of art, showing how historical documents and sources can illuminate the cultural context of art and architecture. Also offered as HUMA 108 and MDST 108.  *Instructors: Neagley, Manca*

HART 280(F)  **HISTORY AND AESTHETICS OF FILM** (4-0-4)
Introduction to the art and aesthetics of film as an artifact produced within certain social contexts. Includes style, narration, mise-en-scène, editing, sound, and ideology in classical Hollywood cinema, as well as in independent, alternative, nonfiction, and Third World cinemas.  *Instructor: Naficy*

HART 281(S)  **HISTORY AND AESTHETICS OF VIDEO** (4-0-4)
Overview of the history of American television and video, with emphasis on milestone genres, programs, and videos in the context of socioeconomic and political events and contemporary discourses. Includes mainstream TV and newer forms such as cable TV, video art, and ethnic TV.  *Instructor: Naficy*

HART 286  **SPECIAL TOPICS IN FILM AND MEDIA STUDIES**
(hours variable, usually 3-0-3)
Special topics and new courses in film and media studies. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor.  *Instructor: Staff*

HART 287  **SPECIAL TOPICS IN FILM HISTORY** (3-0-3)
Exploration of film, with emphasis on such topics as auteur theory, directorial signature, film and semiotics, film and social control, film and revolution, film and Christianity, surrealist film, and film and the other arts. Prerequisite: permission of the instructor.  *Instructor: Staff*

HART 289  **INDEPENDENT READING: FILM AND MEDIA STUDIES**
(hours variable, usually 3-0-3)
Independent study, reading, or special research in film and media studies. Prerequisite: permission of instructor.  *Instructor: Staff*

HART 300(F)  **MUSEUM INTERN PROGRAM** (hours variable, usually 3-0-3)
HART 301(S)
The aim of this course is to provide select students a practicum in museum work accompanied by an introduction to a history of museums, including the varieties of museums, their role in society, and significant issues in museums today. Prerequisite: permission of instructor. Not offered 2001–2002.  *Instructor: Camfield*

HART 308  **SPECIAL TOPICS IN MUSEUM STUDIES**
(hours variable, usually 3-0-3)
Special topics and new courses in museum studies. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. Not offered 2001–2002.  *Instructor: Staff*

HART 309  **INDEPENDENT READING IN MUSEUM STUDIES**
(hours variable, usually 3-0-3)
Independent study, reading, or special research in museum studies and art history. Prerequisite: permission of instructor. Not offered 2001–2002.  *Instructor: Staff*
HART 310  THE FIRST CIVILIZATIONS (3-0-3)
The early development of civilizations from the Paleolithic age to the first Bronze Age urbanizations in Mesopotamia, Egypt, Indus Valley, and China. Slide-illustrated lectures will focus on archaeology, history of religion, and history of art. Attention to contemporary cultural politics. 
_Instructor:_ McEvilley

HART 311  ART OF THE ANCIENT AEGEAN AND EASTERN MEDITERRANEAN (3-0-3)
A survey of the art and material culture of the ancient Aegean and Eastern Mediterranean civilizations to the early stages of Greek art and society. 
_Instructor:_ Staff

HART 312  GREEK ART AND ARCHAEOLOGY (3-0-3)
A survey of the art and society of Greece from its formative periods through the Hellenistic era. 
_Instructor:_ Staff

HART 313  THE DISCOVERY OF THE MIND (3-0-3)
The transition from the Bronze Age to the Iron Age. From myth to philosophy. First expressions of subjectivism and relativism. Primarily ancient near Eastern and Greek materials. Emphasis on art, philosophy, literature, and religion. 
_Instructor:_ McEvilley

HART 314  ART AND ARCHITECTURE IN THE HELLENISTIC WORLD (3-0-3)
This class will consider the art of the Classical Mediterranean from the rise of Alexander the Great in the late 4th century to the death of Cleopatra in 31 BCE. Emphasis will be placed on understanding works in the cultural contexts. 
_Instructor:_ Staff

HART 315(F)  ROMAN ARCHITECTURE (3-0-3)
This course will consider the architectural forms of the Roman world from its Etruscan roots to late imperial innovations. Although the course will cover some domestic architecture, emphasis will be placed on the design of public monuments and how the buildings functioned within their cultural contexts. 
_Instructor:_ Staff

HART 316  GREEK SCULPTURE (3-0-3)
This course focuses on the production and use of sculpture in the ancient Greek world from the second millennium BCE to the first century BCE. 
_Instructor:_ Staff

HART 317(F)  LATE ANTIQUE/EARLY CHRISTIAN ART AND ARCHITECTURE (3-0-3)
Examination of the accommodations made by 3rd-century A.D. abstraction and continuing Hellenism to Christian content in the centuries following Constantine’s Edict of Milan in 313. Includes questions of interaction between the “Cult of the Emperor” and Christianity as the prescribed state religion. Also offered as MDST 327. 
_Instructor:_ Staff

HART 318  SPECIAL TOPICS IN ANCIENT ART 
(hours variable, usually 3-0-3)
Special topics and new courses in ancient art. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. 
_Instructor:_ Staff

HART 319  INDEPENDENT STUDY IN ANCIENT ART 
(hours variable, usually 3-0-3)
Independent study, reading, or special research in ancient art history. Prerequisite: permission of instructor. 
_Instructor:_ Staff

HART 325  ART AND ARCHITECTURE IN THE MIDDLE EAST: THE MEDIEVAL PERIOD (632–1250) (3-0-3)
Survey of art and architecture of the Middle East from the 7th through 13th centuries. It examines the form and function of architectural settings and works of art, as well as the social and cultural contexts, patterns of use, and evolving meanings attributed to art by the users. Of special concern is the evolution of the Islamic tradition, analysis of urban patterns and rituals. Also offered as MDST 355. Not offered 2001–2002. 
_Instructor:_ Staff

(F) = fall; (S) = spring
HART 326(S) ART AND ARCHITECTURE IN THE MIDDLE EAST: LATE MEDIEVAL THROUGH THE MODERN PERIOD (3-0-3)
This course surveys the art and architecture of the Islamic Middle East from the 13th century onward. It examines the relationship of art to historical context, its social uses, and the construction of its meaning. Of special concern are the visual productions of the Mamluk, Il-Khanid, Timurid, Ottoman, and Safavid states, and the development of imperial capitals such as Cairo, Bukhara, Samarkand, Istanbul, and Isfahan. Enrollment limited to 40. Not offered 2001–2002. Instructor: Staff

HART 327 THE CITY IN THE EASTERN MEDITERRANEAN (3-0-3)
An introduction to the historical study of cities, with an emphasis on the Eastern Mediterranean. This course includes theoretical and historical discussions of the city and of methods for its study. Specific themes in urban history are explored through the study of major Islamic as well as European cities, including issues of spatial practice and the representation of cities in texts and images. Also offered as ARCH 327. Not offered 2001–2002. Instructor: Staff

HART 328 WOMEN AND VISUAL CULTURE IN ISLAMIC SOCIETIES (3–0–3)
This course places women at the center of explorations of visual culture in Islamic societies. In-depth analyses of selected works of art and architecture from various historical contexts highlight various issues, including women as patrons of art and women as objects of representation. Theoretical debates on women and gender in art history are introduced. Also offered as WGST 362. Not offered 2001–2002. Instructor: Staff

HART 329 INDEPENDENT STUDY IN EARLY CHRISTIAN, BYZANTINE, AND ISLAMIC ART (hours variable, usually 3-0-3)
Independent study, reading, or special research in the history of early Christian, Byzantine, or Islamic art. Prerequisite: permission of the instructor. Instructor: Staff

HART 330(F) EARLY MEDIEVAL ART FROM 5TH CENTURY TO THE ROMANESQUE PERIOD (3-0-3)
Study of medieval art, with emphasis in part one on the art and architecture produced in Europe during the Dark Ages (e.g., the work of the Visigoths, Celts, Anglo-Saxons, Merovingians, Carolingians, and Ottonians) and in part two on the major revival of art and architecture in the medieval monasteries of the Romanesque period. Also offered as MDST 330. Instructor: Neagley

HART 331(F) GOTHIC ART AND ARCHITECTURE IN NORTHERN EUROPE, 1140–1300: THE AGE OF CATHEDRALS (3-0-3)
Examination of the full array of sacred art and architecture produced in the early and high gothic periods in northern Europe. Includes cathedral architecture, sculpture, stained glass, manuscripts, and metalwork studied in relationship to the expansion of royal and episcopal power. Also offered as MDST 331. Instructor: Neagley

HART 332(S) LATE GOTHIC ART AND ARCHITECTURE IN NORTHERN EUROPE, 1300–1500 (3-0-3)
Examination of art and architecture produced in the late gothic period within three distinct settings—the court, the city, and the church. Includes private, public, and religious life as expressed in the objects, architecture, and decoration of the castle and palace, the house, the city hall and hospital, and the chapel and parish church. Also offered as MDST 332. Instructor: Neagley

HART 338 SPECIAL TOPICS IN MEDIEVAL ART (hours variable, usually 3-0-3)
Special topics and new courses in Medieval art. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. Also offered as MDST 338. Instructor: Neagley

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HART 339  INDEPENDENT STUDY IN MEDIEVAL ART  
(hours variable, usually 3-0-3)  
Independent study, reading, or special research in Medieval art. Prerequisite: permission of the instructor. Also offered as MDST 339. Instructor: Staff

HART 340(F)  ART OF THE NORTHERN RENAISSANCE (3-0-3)  
Study of art in northern Europe from Jan van Eyck to Peter Bruegel. Instructor: Manca

HART 341(F)  EARLY RENAISSANCE ART IN ITALY (3-0-3)  
Study of Italian art and architecture from Giotto to Botticelli, with an emphasis on painting and sculpture in the 15th century. Instructor: Manca

HART 342(S)  THE HIGH RENAISSANCE AND MANNERISM IN ITALY (3-0-3)  
Study of the High Renaissance, with emphasis on its leading masters (e.g., Leonardo, Raphael, Bramante, Michelangelo, and Titian). Includes a study of mannerism, the stylish art produced after the first quarter of the 16th century. Instructor: Manca

HART 343(F)  MASTERS OF THE BAROQUE ERA (3-0-3)  
Study of the works of the greatest painters and sculptors in Europe during the baroque period. Includes Rembrandt, Rubens, Caravaggio, Poussin, Claude, and Velazquez. Instructor: Manca

HART 345(F)  RENAISSANCE AND BAROQUE ARCHITECTURE IN ITALY (3-0-3)  
The course first considers architecture and planning in 15th-century Florence, moves on to 16th-century Rome before the Sack of 1527, then looks at a personally interpreted classicism that transforms Rome in the 17th century, and, finally, evaluates for the future the new directions that come to the fore in the area around Turin during the late 17th and early 18th centuries. Instructor: Staff

HART 346  19TH- AND 20TH-CENTURY ARCHITECTURE: UTOPIA AND MODERNITY (3-0-3)  
Survey of the history and theories of modern architecture. Also offered as ARCH 346. Instructor: Biln

HART 347(F)  THE 18TH CENTURY IN EUROPE (3-0-3)  
Study of the art and architecture of the Age of Enlightenment. Includes rococo, neoclassicism, and early romanticism. Instructor: Staff

HART 350(S)  19TH-CENTURY ART IN EUROPE (3-0-3)  
Exploration of major developments in painting and sculpture from late 18th-century neoclassicism and romanticism through realism, impressionism, and post-impressionism. Includes architecture, photography, and decorative arts. Instructor: Staff

HART 351(F)  20TH-CENTURY ART IN EUROPE (3-0-3)  
Exploration of major developments in painting and sculpture from the 1880s to the 1940s. Includes impressionism and post-impressionism, expressionism, cubism, abstraction, Dada, and surrealism, with a brief consideration of architecture and photography. Instructor: Staff

HART 355  MODERN TO POSTMODERN ART CRITICISM (4-0-4)  
The study of the history, function, and philosophical foundations of modern and postmodern art criticism. The relationship of artists to critic, the place of the artist/critic, and the instructional role of critics will be examined. Prerequisite: HART 101. Instructor: Staff

HART 356  FROM THE DEPRESSION TO THE COLD WAR: AMERICAN ART FROM 1930–1960 (3-0-3)  
This class will examine art and culture in the U.S. from 1930–1960. Emphasis will be on modern art movements, institutions, and criticism. In addition, the class will discuss the art object’s changing place in politics and the social sphere and institutions such as the Museum of Modern Art, the Works Project Administration (WPA), and the CIA’s use of modern art. Instructor: Staff

(F) = fall; (S) = spring
HART 357 ART SINCE 1960 (4-0-4)
A survey of major movements in art in the last 40 years. Includes the study of pop, earthworks, performance, 1980s paintings, installation, and others. Class will also include seminar format sessions focusing on significant theoretical texts of the period addressing gender, race, postmodernism, and aesthetics. Prerequisite: HART 101. Instructor: Staff

HART 358 REALISM TO SYMBOLISM: THE AVANT-GARDE (3-0-3)
This course will examine realism, impressionism, post-impressionism, and symbolism for major tendencies in French art from the late 19th century. Each broke with convention to form an artistic avant garde. Artists to be considered include: Courbet, Daumier, Monet Degas, and Gauguin. Instructor: Staff

HART 360 AMERICAN ARCHITECTURE AND DECORATIVE ARTS BEFORE 1900 (3-0-3)
Major topics will include the furniture styles of early America; the architecture of colonial cities; the life, thought, and architectural ideas of Thomas Jefferson; urban design and building projects in Washington, D.C., and other U.S. cities; and domestic life and interior design in 19th-century America. Instructor: Manca

HART 361 AMERICAN PAINTING AND SCULPTURE BEFORE 1900 (3-0-3)
The course will cover such topics as portraiture in colonial America, the neoclassical movement in American sculpture, the landscape painting of the Hudson River School, and the art of Winslow Homer and John Singer Sargent. We will study the relationship between American philosophy (especially transcendentalism) and painting during the first part of the 19th century. Instructor: Manca

HART 362(S) 20TH-CENTURY AMERICAN ART TO THE 1940S (3-0-3)
Survey of painting, sculpture, photography, and architecture in the U.S. from c. 1900 to 1940, with emphasis on painting. Includes European and Latin American art as relevant. Instructor: Staff

HART 363(S) AMERICAN AND EUROPEAN ART SINCE THE 1940S (3-0-3)
The course will explore the shift of the center of Western art production from Paris to New York evident in the Abstract Expressionists. Attention will be paid to the growing gallery structure, museum world, and critical responses to art in America in the 1940s and 1950s. Also, Dada influenced artists and Pop artists begin to explore the relationship of art to popular imagery and a new consumerist iconography. Postmodern theory and work will be discussed as a response to modernism. Instructor: Staff

HART 368 SPECIAL TOPICS IN AMERICAN ART (hours variable, usually 3-0-3)
Special topics and new courses in American art. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Staff

HART 370(S) THE ARTS OF CHINA (3-0-3)
Study of Chinese painting, sculpture, and decorative arts, with emphasis on recent archaeological finds. Prerequisite: HART 103 or permission of instructor. Not offered 2001–2002. Instructor: Staff

HART 371(S) THE ARTS OF JAPAN (3-0-3)
Survey from pre-Buddhist Japanese art, to the impact of Chinese and Korean culture on art in Japan, to the emergence of indigenous Japanese expression in the arts and architecture. Prerequisite: HART 103 or permission of instructor. Not offered 2001–2002. Instructor: Staff

HART 378 SPECIAL TOPICS IN NON-WESTERN ART (hours variable, usually 3-0-3)
Special topics and new courses in non-Western art. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Staff
HART 379  INDEPENDENT READING IN NON-WESTERN ART
(hours variable, usually 3-0-3)
Independent study, reading, or special research in non-Western art. Prerequisite: permission of instructor. Instructor: Staff

HART 380(S)  SEMINAR ON FILM AUTHORSHIP: SCORSESE, PENN, AND KUBRICK (4-0-4)
Focuses on issues of authorship in film and television. Presents a structuralist and poststructuralist reading of the films of Stanley Kubrick, Martin Scorsese, and Arthur Penn. Their films will be seen in the context of the social issues of the 1960s through the 1990s. Enrollment limited to 15. Instructor: Naficy

HART 382(F)  SEMINAR ON NON-WESTERN CINEMA: THIRD-WORLD CINEMA (4-0-4)
Study of significant national cinemas, film movements, and filmmakers of the Third World from Africa to Latin America and from the Middle East to China. Includes colonial and postcolonial discourses. Limited enrollment. Also offered as ANTH 382. Instructor: Naficy

HART 388  SPECIAL TOPICS IN FILM AND MEDIA STUDIES
(hours variable, usually 3-0-3)
Special topics and new courses in film and media studies. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of instructor. Instructor: Naficy

HART 389  INDEPENDENT READING: FILM AND MEDIA STUDIES (hours variable, usually 3-0-3)
Independent study, reading, or special research in film and media studies. Prerequisite: permission of instructor. Instructor: Naficy

HART 390(F)  THEORETICAL PERSPECTIVES ON THE VISUAL ARTS (3-0-3)
Exploration of overlapping themes central in the history of art, using texts from Plato to postmodernism. Includes the use of biography, style, connoisseurship, quality, the social basis of art, theories of change in the arts, psychology, iconography, and the modernist canon and postmodern challenges to that canon, as well as race, gender, class, authorship, and audience. Instructor: Staff

HART 399  INDEPENDENT READING IN THEORY AND CRITICISM (hours variable, usually 3-0-3)
Independent study, reading, or special research in art history theory and criticism. Prerequisite: permission of the instructor. Instructor: Staff

HART 400  BAYOU BEND INTERNSHIP (hours variable, usually 3-0-3)
Internship at Bayou Bend, the American Decorative Arts Center of the Museum of Fine Arts, Houston. Must be a Jameson Fellowship recipient to enroll. Prerequisite: permission of instructor. Instructor: Manca

HART 401  BAYOU BEND INTERNSHIP (hours variable, usually 3-0-3)
Internship at Bayou Bend and the American Decorative Arts Center of The Museum of Fine Arts, Houston. Must be a Jameson Fellowship recipient to enroll. Prerequisite: permission of instructor. Instructor: Manca

HART 406  THE CULTURE OF MUSEUMS (3-0-3)
This course will explore the museum as a central institution of Western culture since the 18th century. Topics include the politics of collecting and display, the representation of national past and ethnic “other” in museums as sites of knowledge and classification of objects. Also offered as HIST 370 and FREN 406. Instructor: Sherman

HART 407(F)  SENIOR THESIS (3-0-3 each semester)
HART 408(S)
Completion of a thesis under the direction of a member of the faculty. Open to senior art majors only. Prerequisite: permission of faculty.
HART 409 INDEPENDENT READING IN MUSEUM STUDIES
(hours variable, usually 3-0-3)
Independent study, reading, or special research in museum studies. Prerequisite: permission of the instructor. Not offered 2001–2002. Instructor: Staff

HART 410(F) ARCHAEOLOGICAL FIELDWORK AND
HART 411(S) RESEARCH (3-0-3 each semester)
Application of fieldwork and research to specific archaeological problems. Prerequisite: permission of instructor. Instructor: Staff

HART 419 ART & LIFE IN POMPEII (3-0-3)
This class will explore the archaeological remains of the ancient Roman city of Pompeii in Southern Italy. Emphasis will be placed on understanding the city in terms of the art and architecture experienced in the daily life of the town’s citizens. Instructor: Staff

HART 421 THE IMAGE OF THE ARTIST: SELF-REPRESENTATION (3-0-3)
The course concerns self-representations of artists and their environments, both personal and professional. The course topic is essentially iconographic, but considerable attention will be given to the history and techniques of printmaking through the early 19th century. Instructor: Staff

HART 425 ISSUES IN ISLAMIC ARCHITECTURE (3-0-3)
This course focuses on architecture and urban issues in the Islamic Middle East. The scope is comparative, and the content of the course is variable. Readings and discussions address historical and theoretical issues. Not offered 2001–2002. Instructor: Staff

HART 426 SEMINAR IN MIDDLE EASTERN ART (3-0-3)
This seminar focuses on topics in Middle Eastern art. The scope is comparative, and the content of the course is variable. Readings and discussions address historical and theoretical issues. Enrollment limited to 15. Not offered 2001–2002. Instructor: Staff

HART 430 THE GOTHIC PORTAL (3-0-3)
Seminar on the form and meaning of sculptural programs attached to French gothic cathedrals such as Chartres, Reims, and Amiens. Includes issues of iconography, style, and production, as well as more recent concerns of narrative, reception, and audience, all within the context of medieval church doctrine and political and social life. Also offered as MDST 430. Instructor: Neagley

HART 440(S) JAN VAN EYCK: PROBLEMS OF INTERPRETATION (3-0-3)
Seminar and in-depth research on the art and historiography of the early Netherlandish painter Jan van Eyck. Also offered as MDST 440. Instructor: Neagley

HART 444(S) LEONARDO AND MICHELANGELO (3-0-3)
Study of the art and thought of the two greatest geniuses of the Italian Renaissance. Instructor: Manca

HART 448 SPECIAL TOPICS IN RENAISSANCE AND BAROQUE ART (hours variable, usually 3-0-3)
Special topics and new courses in renaissance and baroque art. Not necessarily repeated. May be used in awarding transfer credit. Prerequisite: permission of the instructor. Instructor: Staff

HART 449 INDEPENDENT STUDY IN RENAISSANCE AND BAROQUE ART (hours variable, usually 3-0-3)
Independent study, reading, or special research in renaissance and baroque art. Prerequisite: permission of the instructor. Instructor: Staff
HART 450  ART, SOCIETY, AND POLITICS BETWEEN WWI AND WWII (3-0-3)
A study of art between World Wars I and II that is produced or used in the service of established
governments and cultural values or, to the contrary, stands in protest against them. Emphasis on
conditions in France, the Soviet Union, and Germany during the Weimar Republic and the Third
Reich. Some consideration of examples in Mexico and the U.S. Instructor: Staff

HART 451  FOUR MODERN MASTERS (3-0-3)
Exploration of the art, life, context, and criticism of Picasso, Duchamp, Ernst, and Mondrian.
Prerequisite: HART 351 or permission of instructor. Instructor: Staff

HART 459  INDEPENDENT STUDY IN MODERN EUROPEAN ART
(hours variable, usually 3-0-3)
Independent study, reading, or special research in modern European art. May be used in awarding
transfer credit. Prerequisite: permission of the instructor. Instructor: Staff

HART 469  INDEPENDENT STUDY IN AMERICAN ART
(hours variable, usually 3-0-3)
Independent study, reading, or special research in American art. Prerequisite: permission of the
instructor. Instructor: Staff

HART 479  INDEPENDENT READING IN NON-WESTERN ART
(hours variable, usually 3-0-3)
Independent study, reading, or special research in non-Western art. Prerequisite: permission of the
instructor. Instructor: Staff

HART 483(S)  SEMINAR ON DOCUMENTARY AND ETHNOGRAPHIC FILM (4-0-4)
Overview of the history of documentary and ethnographic cinema from a worldwide perspective.
Includes both canonical and alternative films and film movements, with emphasis on the shifting
and overlapping boundaries of fiction and nonfiction genres. Limited enrollment. Also offered as
ANTH 483. Instructor: Naficy

HART 484(S)  CULTURE, MEDIA, SOCIETY: EXILE AND DIASPORA CINEMA (4-0-4)
Examination of cultural productions as vehicles for communication across national, cultural, and
other boundaries, using contemporary theories of culture and media. Includes the creation of mean-
ing and cultural capital, the representation of minority and alternative views, and the construction
of individual and group identities. Also offered as ANTH 484. Instructor: Naficy

HART 489  INDEPENDENT STUDY IN FILM AND MEDIA STUDIES
(hours variable, usually 3-0-3)
Independent study, reading, or special research in film and media studies. Prerequisite: permission of the
instructor. Instructor: Staff

HART 490(S)  ART AND THE MIND (3-0-3)
Exploration of topics in art history, criticism, aesthetics, philosophy, and the psychology of art. Previous art history courses desirable but not required. Not offered 2001–2002. Instructor: McEvilley

HART 491(S)  UNDERSTANDING POSTMODERNISM (3-0-3)
A study of broad cultural change that is still unresolved, and still controversial. Attention will be
paid to postmodern issues in history, philosophy, postcolonial studies, Marxism, feminism, and
psychoanalytic theory, with less explicit attention to postmodern issues in literary criticism. The
visual arts, including film, will be presented not in isolation but in a matrix of cultural whole-
ness. Lectures, discussions, and slide and film showings. Enrollment limited to 12. Not offered

(F) = fall; (S) = spring
HART 494  ART AND THE WORLD’S RELIGIONS (3-0-3)
Art is presented as a way of thinking about reality. Slide-illustrated lectures will involve visual formulations of: origination, history, destiny, society, the individual, sexuality, gender, power, and the end of the world. Enrollment limited to 35. Also offered as RELI 494. Not offered 2001–2002.  
Instructor: McEvilley

HART 499  INDEPENDENT STUDY IN THEORY, THEMES, AND CRITICISM (hours variable, usually 3-0-3)
Independent study, reading, or special research in art history theory, themes, and criticism. Prerequisite: permission of the instructor.  
Instructor: Staff

HART 500(F)  INTERNSHIP PROGRAM (hours variable)

HART 501(S)  
Graduate level course that will provide select students a practicum in museum work accompanied by an introduction to a history of museums, including the varieties of museums, their role in society, and significant issues in museums today. Prerequisite: permission of instructor. Not offered 2001–2002.

HART 582(F)  SEMINAR ON NON-WESTERN CINEMA: THIRD-WORLD CINEMA (3-0-3)
Graduate version of HART 382. Also offered as ANTH 582. Prerequisite: permission of instructor.

HART 585(F)  INDEPENDENT READING IN FILM AND MEDIA
HART 586(S)  STUDIES (3-0-3 each semester)
Graduate level research, working independently under the supervision of a member of the faculty. Prerequisite: permission of instructor. Not offered 2001–2002.  
Instructor: Staff

HART 592  SPECIAL TOPICS
Graduate-level courses or special research and reading for master’s thesis. Prerequisite: permission of instructor. Not offered 2001–2002.

HART 683(S)  SEMINAR ON DOCUMENTARY AND ETHNOGRAPHIC FILM (4-0-4)
Graduate version of HART 483. Also offered as ANTH 683. Prerequisite: permission of instructor.

HART 684  CULTURE, MEDIA, SOCIETY: EXILE AND DIASPORA CINEMAS (4-0-4)
Graduate version of HART 484. Also offered as ANTH 684. Prerequisite: permission of instructor.  
Instructor: Naficy

Health Sciences (HEAL)

The School of Humanities/Kinesiology

HEAL 103(F)  NUTRITION (3-0-3)
Concepts underlying the science of nutrition: food composition, calories and needs for energy, special nutrients, and nutritional deficiencies.  
Instructor: Anding

HEAL 119(F)  CONCEPTS IN HEALTH SCIENCES (3-0-3)
Designed to acquaint prospective health educators with the structure and function of health in our society.  
Instructor: Adam

HEAL 132  MEDICAL TERMINOLOGY (2-0-2)
This course introduces the student interested in medical and health related professions to a large vocabulary of medical language which develops skills in understanding and remembering new words. It describes word origins, basic terms in anatomy and terms pertaining to each body system as well as pharmacology and medical equipment, and many frequently used medical terms, abbreviations and symbols.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HEAL 201(F)  INTRODUCTION TO ENVIRONMENTAL SYSTEMS (3-3-4)
The chemical, physical, and biological components of the environment as natural resources and the effect of pollution on their maintenance and utilization. Also offered as ENVI 201. Instructor: Ward

HEAL 206(S)  FIRST AID/EMERGENCY CARE/CPR (1-1-1)
The American Red Cross certification program for emergency care procedures for illness, traumatic injuries and cardiopulmonary resuscitation. Also offered as KINE 304. Instructor: Vandenberg

HEAL 208(S)  CHEMICAL ALTERATIONS OF BEHAVIOR (3-0-3)

HEAL 212(S)  CONSUMER HEALTH (3-0-3)
Study of factual information and guidelines that enable consumers to act intelligently in selecting health products and services, with emphasis on the economic aspects of health. Instructor: Iammarino

HEAL 222  PRINCIPLES OF PUBLIC AND COMMUNITY HEALTH
Examine aspects of the community that relate to health including: identification and analysis of community health programs; organizational pattern and functions of voluntary and governmental health agencies; organizing the community for health action; and coordination of community health programs. Instructor: Iammarino

HEAL 304(S)  FIRST AID/EMERGENCY CARE/CPR (1-1-1)
The American Red Cross certification program for emergency care procedures for illness, traumatic injuries and cardiopulmonary resuscitation. Also offered as KINE 304. Instructor: Vandenberg

HEAL 306  HUMAN SEXUALITY (3-0-3)
Designed to explore the physiological, psychological, and sociological parameters of human sexuality, while providing accurate sex information, and helping students develop healthy attitudes toward sexuality. Not offered 2001–2002.

HEAL 308(S)  EMT BASIC: INTRODUCTION TO EMERGENCY CARE (3-0-3)
Designed to develop the knowledge and skills necessary to recognize the symptoms of various illnesses and injuries, as well as competency in the appropriate emergency treatment for these conditions in the prehospital environment. Subjects include medical emergencies (diabetic, respiratory, cardiac, etc.), basic cardiology, traumatic emergencies, basic vehicle rescue and extrication, and basic pharmacology and medication administration. Requires outside internship in the emergency room and on the ambulance. Completion of the course allows the student to take the Texas Department of Health Emergency Medical Technician-Basic certification exam. Prerequisite: permission of instructor. Instructor: Reiter

HEAL 310(F)  EMT INTERMEDIATE: INTRODUCTION TO EMERGENCY CARE (3-0-3)
Designed to expand on introductory course. Includes instruction regarding intravenous lines, endotracheal tubes for artificial respiration, cardiology, defibrillation, and expanded pharmacology and medication administration. Includes extensive internship in emergency room, operating room, and on the ambulance, as well as a weekend course on basic trauma life support. Completion of this course allows the student to take the Texas Department of Health Emergency Medical Technician-Intermediate certification exam. Prerequisite: permission of instructor and current certification as an EMT-Basic in Texas. Instructor: Reiter

HEAL 350(S)  UNDERSTANDING CANCER (3-0-3)
Examination of cancer from a biological, psychological, and sociological perspective with emphasis on cancer epidemiology, prevention, and early detection. Instructor: Iammarino
HEAL 407(F)  EPIDEMIOLOGY (3-0-3)
Study of communicable, non communicable, and behavioral diseases with emphasis on the disease process and basic epidemiological methods. Instructor: Iammarino

HEAL 495/496  INDEPENDENT STUDY (HOURS VARIABLE)
For junior and senior students only. Prerequisite: Permission of advising faculty and Program Development Committee. Instructor: Iammarino

HEAL 498  TOPICS IN HEALTH SCIENCES (hours variable)
SECTION 1: HEALTH CARE IN THE UNITED STATES AND THE UNITED KINGDOM: A COMPARATIVE ANALYSIS (3-0-3)
The examination of the British National Health System including visitations to public health facilities, hospitals, and government offices. Three week travel/study in the United Kingdom offered during May/June on alternate years. Instructor: Iammarino

SECTION 2: SEMINAR ON INTERNATIONAL HEALTH PROBLEMS (3-0-3)
This upper level seminar is designed to increase student’s awareness of the multiple dimensions and complexities involved in understanding the health of people from diverse geographic, political, economic, and cultural backgrounds. Thus, the seminar course will explore issues and concepts of delivery and acceptance of health care, traditional health belief customs and practices, epidemiology and public health problems, demographic and environmental characteristics as well as intervention methods among selected worldwide populations. Instructor: Iammarino

HEAL 499  TEACHING PRACTICUM (hours variable)
Advanced teaching experience for upper level students who have demonstrated particular aptitude and interest in Public Health or the Health Sciences. Prerequisites: Junior or Senior standing, and permission of the instructor. Instructor: Iammarino

Hebrew (HEBR)

The School of Humanities/Center for the Study of Languages

HEBR 101(F)  INTRODUCTION TO MODERN HEBREW LANGUAGE AND CULTURE I (3-2-5)
No prior knowledge of Hebrew is assumed. The course covers elementary reading, writing, and conversation. A major portion of instruction is in Hebrew. Supplementary reading from biblical and modern texts. Additionally, aspects of the Israeli culture, tradition, and songs will be introduced. Not offered 2001–2002. Instructor: Staff

HEBR 102(S)  INTRODUCTION TO MODERN HEBREW LANGUAGE AND CULTURE II (3-2-5)

HEBR 125(F)  INTRODUCTION TO BIBLICAL HEBREW I (3-0-3)
An introduction to Biblical Hebrew (two semesters) with emphasis on grammar and vocabulary. Upon completion of this course, students will be able to read comfortably through biblical narratives and some poetic texts. Also offered as RELI 125. Offered with additional work as RELI 551. Instructor: Henze

HEBR 126(S)  INTRODUCTION TO BIBLICAL HEBREW II (3-0-3)
Continuation of HEBR 126. We will finish the grammar in the second half of this semester and then read selections from the Hebrew Bible, including the entire book of Ruth, short Rabbinic texts, and excerpts from the Dead Sea scrolls. Also offered as RELI 126. Offered with additional work as RELI 551. Instructor: Henze

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
HEBR 127 (F)  INTERMEDIATE BIBLICAL HEBREW (3-0-3)
Readings in the Hebrew Bible (Numbers, Ecclesiastes, Song of Songs), as well as in some unvo-
calized texts from the Dead Sea Scrolls. Review of grammar and vocabulary. For students who
have completed HEBR 125 and 126 or have some knowledge of Hebrew but lack a thorough
philological training. Also offered as RELI 127. Offered with additional work as RELI 552. Not

HEBR 201 (F)  INTERMEDIATE MODERN HEBREW LANGUAGE AND CULTURE I (3-1-4)
A continuation of HEBR 102. Vocabulary, grammar, and conversational skills develop through
daily student participation in Hebrew language dialogues and presentations. Students will attain
fluency in reading unpointed texts. Supplementary reading from biblical, rabbinic, and modern

HEBR 202 (S)  INTERMEDIATE MODERN HEBREW LANGUAGE AND CULTURE II (3-1-4)
A continuation of HEBR 201. Vocabulary, grammar, and conversational skills develop through
daily student participation in Hebrew language dialogues and presentations. Students will attain
fluency in reading unpointed texts. Supplementary reading from biblical, rabbinic, modern texts,
and poetry. Not offered 2001–2002. Prerequisite: HEBR 201. Instructor: Staff

HEBR 398 (F)  INDEPENDENT STUDY (hours variable)
HEBR 399 (S)
Prerequisite: permission of instructor. Instructor: Staff

History (HIST)
The School of Humanities

HIST 101 (F)  EUROPE’S FIVE HUNDRED YEARS, 1450–1815 (3-0-3)
Comprehensive exploration of how the world was thoroughly reshaped by the European experience.
Recommended for freshmen and sophomores. Offered with additional work as HIST 301. Fall 2001:
a French FLAC component will be offered with this course, FLAC 300. Instructor: Zammito

HIST 102 (S)  EUROPE’S FIVE HUNDRED YEARS, 1815–PRESENT (3-0-3)
Continuation of HIST 101. May take either course separately. Recommended for freshmen and
sophomores. Offered with additional work as HIST 302. Instructor: Bjork

HIST 105  U.S. HISTORY, I: COLONIAL TIMES TO RECONSTRUCTION
General survey of American history from colonial times to Reconstruction. This course may be
fulfilled by Advanced Placement examination/credit.

HIST 106  U.S. HISTORY, II: RECONSTRUCTION TO THE 20TH CENTURY
General survey of American history from Reconstruction to the 20th century. This course may be
fulfilled by Advanced Placement examination/credit.

HIST 113 (S)  GOD, TIME, AND HISTORY (3-0-3)
How is the passage of time given meaning, and what role—if any—is assigned to divinity in shap-
ing the direction of events? Course explores various forms of recording and interpreting events,
drawing from ancient Mesopotamia, Israel, and the Greco-Roman world—the cultures in which
modern ideas of history began. Limited enrollment. Also offered as HUMA 113 and RELI 123.
Instructors: Maas, Henze

(F) = fall; (S) = spring
HIST 118(S)  THE UNITED STATES, 1877–PRESENT (3-0-3)
A continuation of HIST 117 (though 117 is not a prerequisite), from the Reconstruction to the present. Also offered as HIST 318. Instructor: Schmeller

HIST 142(S)  FRESHMAN SEMINAR: MURDER TRIALS IN BRITAIN AND AMERICA (3-0-3)
Major murder trials have raised large questions about personal responsibility, social relationships, balancing public safety and personal liberty, and determining guilt and innocence. Such trials have frequently thrown a spotlight onto the darker corners of British and American society. A select number of these trials will be explored as windows into their worlds. Limited enrollment. Not offered 2001–2002. Instructor: Wiener

HIST 152(F)  FRESHMAN SEMINAR: ANCIENT HISTORY (3-0-3)
The Hero and his Companion from Gilgamesh to Sam Spade. How does presentation of heroic action illustrate the basic values of a society? Through consideration as historical sources of several ancient texts, modern mystery stories, and two “western” movies, we will see the development of a style of community service that links heroism with alienation. The extent to which women participate will be traced. Limited enrollment. Instructor: Maas

HIST 166(S)  FRESHMAN SEMINAR: THE CLASSIC IN ASIAN AND WORLD CULTURE
Over the past two millennia or so, the Yijing (I Ching: Classic of Changes) has been, with the notable exception of the Bible, the most widely read and extensively commented upon book in all of world literature. Having emerged in China about three thousand years ago as an occult prognostication text, the Yijing eventually attained the status of “classic” in 136 B.C.E. The next several hundred years saw its influence gradually spread to other areas within the Chinese cultural orbit in East Asia—notably Japan, Korea, Annam (Vietnam) and Tibet. During the 17th and 18th centuries, Jesuit missionaries brought knowledge of the classic to the West; and today there are dozens of different translations of the Yijing in various European languages. How do we account for these developments—particularly the transcultural spread and enduring influence of the Yijing? In what respects can the Yijing be compared to other “classic” works as a document of truly “global” significance? Limited enrollment. Instructor: Smith

HIST 188(F)  THE ATLANTIC WORLD: ORIGINS TO THE AGE OF REVOLUTION
Survey of the social, political, economic, and intellectual ligatures that bound the particular histories of Africa, Europe, and the Americas one to the other, until by the late 18th century, the Atlantic basin constituted a world unto itself. Offered with additional work as HIST 388. Instructor: Byrd

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 202(F)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE EARLY MIDDLE AGES (3-0-3)
Introduction to European culture of the “Dark Ages,” from the fall of Rome to the end of the Viking invasions. Includes the use of historical, literary, artistic, and archaeological sources to trace changes in European material, spiritual, and cultural life between 300 and 1000 A.D. Offered with additional work as HIST 325. Also offered as MDST 202. Instructor: Stahl

HIST 203(S)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE HIGH MIDDLE AGES (3-0-3)
Continuation of HIST 202 (not a prerequisite). Includes European culture from the year 1000 to the discovery of the Americas, which encompasses the Crusades, the “discovery of the individual,” chivalry and chivalric literature, the Black Death, and the beginnings of the Age of Exploration, using pictorial and architectural as well as literary and historical sources. Offered with additional work as HIST 326. Also offered as HUMA 103 and MDST 203. Instructor: Stahl

HIST 205(F)  MYTH, HISTORY, AND THE PROBLEM OF THE PAST (3-0-3)
Exploration of myth and history as two ways of interpreting the past that today evoke different responses: belief in history and pleasure in myth. Includes use of written texts and visual arts from classical antiquity and contemporary America, as well as cinema, to compare interpretive strategies. Limited enrollment. Also offered as HUMA 105. Not offered 2001–2002. Instructors: Maas, Mackie

HIST 207(S)  GREEK CIVILIZATION: FROM HOMER TO ALEXANDER THE GREAT (3-0-3)
The artistic, political, scientific, and religious achievements of Greek civilization imprinted themselves on the Western world in such a way that all of Western history, literature, art, and thought up to the present has been fundamentally influenced by the Greeks. This course will survey the Greek achievement from Homer through the birth of democracy in Athens to the spread of Greek civilization by the conquests of Alexander the Great. No prerequisites. Cross-listed with CLAS 207 and HUMA 109. Instructor: George

HIST 211(F)  AMERICAN THOUGHT AND SOCIETY, I (3-0-3)
Survey of 17th- and 18th-century American history, with emphasis on intellectual and social developments underlying the surface of events. Offered with additional work as HIST 311. Instructor: Haskell

HIST 212(S)  AMERICAN THOUGHT AND SOCIETY, II (3-0-3)
Continuation of HIST 212. Includes 19th- and 20th-century American history. May take HIST 211 and 212 separately. Offered with additional work as HIST 312. Instructor: Haskell

HIST 214(S)  CARIBBEAN NATION-BUILDING (3-0-3)
This course will focus on the slow, steady process through which nation-states emerged in the Caribbean from the 18th century to the present, as well as the difficulties they face amidst increasing globalization. Offered with additional work as HIST 314. Not offered 2001–2002. Instructor: E. Cox

HIST 215(S)  BLACKS IN THE AMERICAS (3-0-3)
This comparative survey of black people in the Americas from 1619 to the present examines the Atlantic slave trade, the movement toward slave emancipation in various countries, and 19th-century black self-help efforts. The course also concentrates on economic conditions for blacks at the turn of the 20th century. Offered with additional work as HIST 315. Instructors: E. Cox, Byrd

HIST 219(S)  PATTERNS OF THE CHINESE PAST (3-0-3)
This course will examine certain broad patterns of historical change in China from the Shang dynasty (c. 1800 B.C. to 1100 B.C.) to the 20th century. An emphasis will be placed not only on major political, social, economic, intellectual, and cultural transformations but also on a number of important individuals whose lives seem in some way to exemplify these changes or to reflect the debates and conflicts surrounding them. Not offered 2001–2002. Instructor: Smith

(F) = fall; (S) =
HIST 220(S) CONTEMPORARY CHINA (3-0-3)
This introductory (“foundational”) course is designed to encourage creative ways of thinking about “Cultural China”—a broad-ranging concept that includes the People’s Republic, the newly established Special Administrative Region (SAR) of Hong Kong, the Republic of China on Taiwan, and overseas Chinese communities throughout the world. The course will be team-taught and will employ a number of different media, including not only printed texts but also films, videotapes, slides, and materials on the World Wide Web. It will involve group projects (emphasizing cooperation rather than competition), wide-ranging discussions, and a number of interesting guest lecturers, including Wang Meng, former minister of culture of the PRC and one of China’s leading novelists. Also offered as ANTH 220. Offered with additional work as HIST 310. Not offered 2001–2002. Instructors: Smith, Lee

HIST 221(F) JAPANESE HISTORY I: EARLY JAPAN TO THE AGE OF THE SAMURAI (3-0-3)
From the Sun Goddess to samurai, images from early history continue to shape the way Japanese people think about themselves and their country. This survey of Japan from prehistoric times to the 18th century will introduce students to the country’s religious and intellectual traditions, social and political formations, and cultural and economic transformations. Offered with additional work as HIST 421. Not offered 2001–2002. Instructor: Thal

HIST 222(S) JAPANESE HISTORY II: MODERN JAPAN (3-0-3)
Over the last 200 years, the people of Japan have adopted Western dress, waged three international wars, experienced the atom bomb, and built one of the world’s leading economies. This survey of 19th- and 20th-century Japan examines the political, economic, and social forces that have shaped these events. Offered with additional work as HIST 422. Not offered 2001–2002. Instructor: Thal

HIST 228(F) MODERN LATIN AMERICA FROM INDEPENDENCE TO THE PRESENT (3-0-3)
Discussions of Latin America usually fall back upon facile generalizations that emphasize recent changes to explain “current events.” This lecture course will examine in detail the creation of modern Latin America. We will concentrate on the struggles over land and labor, the creation of nation-states, and the conflicts within those states over issues of citizenship and social justice. The course will also address the contentious role the United States has played in the region. Not offered 2001–2002. Instructor: Wolfe

HIST 231(F) AFRICA TO 1884 (3-0-3)
Survey of the changing historiography of Africa. Includes the emergence of the Bantu, early Christianity and Islam, trans-Saharan trade, the medieval Sudanic empires, statelessness and state formation, Portugal in Africa, the slave trade, South Africa to 1867, the Mfecane, the Sudanic jihads, long-distance trade, and African-European relations in the 19th century. Not offered 2001–2002. Instructor: Odhiambo

HIST 232(S) THE MAKING OF MODERN AFRICA (3-0-3)
Survey of the transformation of Africa from the late 19th century to the present. Includes Europe and Africa in the 19th century (e.g., the partition of Africa and the colonial state), economic change in the 20th century (e.g., plantation and peasant agriculture, mining and industrialization, wage and migrant labor, African capitalism, rural differentiation, and roots of hunger and poverty), social change in the 20th century (e.g., ethnic identity, emergence of elites, and changes in cultural policies regarding language, leisure, roles of women, religion, law and order, medicine and healing, and urbanization), political developments (e.g., ethnic unions, political parties, and decolonization), and Africa since independence. Not offered 2001–2002. Instructor: Odhiambo

HIST 235(F) THE WORLD AND THE WEST (3-0-3)
This course aims first to provide an introduction to the last 500 years of world history, focusing on those processes that define the modern period, including industrialization, democratization, colonialism, and the emergence of new forms of cultural production. Second, we explore how and why such processes have come to divide the modern world into a “west” and a “non-west.” Also offered as HUMA 235. Instructors: Quillen, Makdisi

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 237(S)  GENDER AND POLITICS IN EUROPEAN HISTORY
This lecture and discussion class explores relationships between ideas about sex difference and the political sphere through the study of key moments in the history of Western philosophy, literature, political theory, and colonialism from Periclean Athens to the contemporary U.S. Offered with additional work as HIST 337. Also offered as WGST 237. Instructor: Quillen

HIST 241(F)  HISTORY OF AMERICAN WOMEN I:
COLONIAL BEGINNINGS TO THE CIVIL WAR
Beginning with an examination of the similarities and differences in the lives of women across the colonies, this course will trace changes in the dominant cultural definitions of womanhood and women’s roles from the mid-17th century through the antebellum period. This survey highlights the importance of defining women’s “place” to the men and women who built America. Offered with additional work as HIST 391. Also offered as WGST 234. Instructor: Sneider

HIST 242(S)  HISTORY OF AMERICAN WOMEN II:
CIVIL WAR TO THE PRESENT
Continuation of HIST 241. This course traces the rise of women’s voluntary associations of the antebellum period through the highly organized national and international organizations of the late 19th and early 20th centuries to post-suffrage women’s participation in movements for social change across the 20th century. Emphasis on the shifting boundary between private and public in American women’s lives. Offered with additional work as HIST 392. Also offered as WGST 235. Instructor: Sneider

HIST 244(F)  INTRODUCTION TO WOMEN’S HISTORY (3-0-3)
Exploration of the idea of women’s history (is it the same as the history of women?) by examining the approaches and types of evidence that are used by scholars in the field. Includes the relationship of women’s history to related fields such as feminist theory, gender studies, and the history of sexuality. Offered with additional work as HIST 344. Also offered as WGST 214. Not offered 2001–2002. Instructor: Quillen

HIST 250(S)  TRADITIONAL CHINESE CULTURE (3-0-3)

HIST 256(F)  EUROPEAN POLITICS AND SOCIETY, 1890–1945 (3-0-3)
Examination of European history in the age of total war. Includes imperialism and the development of the welfare state, institutional responses to the demands of total warfare, the crisis of liberal constitutionalism, the Russian Revolution, and the rise of fascism. Not offered 2001–2002. Instructor: Caldwell

HIST 257(F)  JEWS AND CHRISTIANS IN MEDIEVAL EUROPE
Though Jewish and Christian history are often treated as separate fields, over the course of their long coexistence the two communities profoundly affected each other. Their histories are intimately related. This course will study these relations, focusing on Jewish communities within the context of Christian Europe. Offered with additional work as HIST 357. Also offered as MDST 257. Instructor: Haverkamp

HIST 259(S)  THE MEDIEVAL CULTURES OF JUDAISM AND CHRISTIANITY
Although Jewish and Christian history are often treated as separate fields, over the course of their long coexistence the two communities have profoundly affected each other. Their histories, therefore, are intimately related. This survey course will cover in a comparative and thematic approach various fields in medieval history of Jews and Christians concerning religion, theology, philosophy, mysticism, popular culture, social relations, communities, governmental structures, family life, economy, trade, and persecutions. Offered with additional work as HIST 359. Also offered as MDST 259. Instructor: Haverkamp.

HIST 269(S)  WORLD HISTORY

(F) = fall; (S) = spring
HIST 273(F)  ANCIENT AND MEDIEVAL JEWISH HISTORY, 70–1492
Jewish history from antiquity to the Jews’ expulsion from Spain. Jewish life under the Romans, Muslims, and Christians, seen from the perspective of settlement, assimilation, and the particularities of the Jewish historical experience. Lecture and discussion of primary sources in translation. Offered with additional work as HIST 373. Also offered as MDST 273. Not offered 2001–2002. 
_Instructor: Haverkamp_

HIST 274(S)  MEDIEVAL AND MODERN JEWISH HISTORY, 1500–1948
Continuation of HIST 273. The Jews’ expulsion from Spain to the establishment of the state of Israel. Life in western and eastern Europe as well as in Islamic countries, seen from the perspective of settlement, assimilation, and the particularities of the Jewish historical experience. Offered with additional work as HIST 374. Not offered 2001–2002. 
_Instructor: Haverkamp_

HIST 277(F)  AN INTRODUCTION TO THE 19TH-CENTURY MIDDLE EAST, 1798–1914 (3-0-3)
This course surveys the political, social, economic, and cultural history of the Middle East in the 19th century, with an emphasis on the Ottoman Empire and its peripheries in Syria and Egypt. Not offered 2001–2002. 
_Instructor: Makdisi_

HIST 278(S)  THE ARAB WORLD IN THE 20TH CENTURY, 1914–PRESENT (3-0-3)
The history and culture of the Arab world as it has developed from World War I to the present. Themes covered are nationalism, colonialism, and orientalism as they have been understood and discussed in the contemporary Arab world through debates about the question of Palestine, the status of women, and the rise of modern Islamic politics. 
_Instructor: Makdisi_

HIST 279(F)  THE CARIBBEAN IN THE AGE OF REVOLUTION, 1770–1820
An examination and analysis of Caribbean societies as they sought to adjust to forces unleashed by the American and French Revolutions and amidst mounting antislavery sentiment in the western world. Offered with additional work as HIST 379. 
_Instructor: E. Cox_

HIST 281(F)  THE MIDDLE EAST FROM THE PROPHET MUHAMMAD TO MUHAMMAD ALI (3-0-3)
An introduction to the history of the Middle East from the rise of Islam to the beginning of the 19th century. Topics include the Islamic conquests and the classical Islamic state, Arabization, Jewish and Christian communities, the impact of the Turkic peoples, and the Ottoman Empire, with an emphasis on the long-term social, cultural, and political trends that shaped the history of the region in the premodern period. Also offered as MDST 281. 
_Instructor: Sanders_

HIST 283(F)  WOMEN IN THE ISLAMIC WORLD
This course introduces students to the history of women in the Islamic world. Topics include women and law, family relations, work, women as political actors in Islamic history, the harem as a social and political institution, women as property owners, veiling, and modern feminist movements throughout the Islamic world. Also offered as WGST 283. 
_Instructor: Sanders_

HIST 286(S)  THE REFORMATION AND ITS RESULTS (3-0-3)
Study of theology and church-state issues from the 16th century Reformation to the 17th century. Includes the Reformation’s medieval background, Luther and Calvin, the Catholic Reformation, religious wars, Protestant orthodoxy, Pietist spirituality, Puritanism, and calls for toleration. Also offered as RELI 286. 
_Instructor: Stroup_

HIST 293(F)  THE ART OF WAR FROM MACHIAVELLI TO NAPOLEON (3-0-3)
Study of the theory and practice of warfare from the 15th century to the early 19th century. Includes Machiavelli, Saxe, and Napoleon. Offered with additional work as HIST 393. 
_Instructor: Gruber_

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 294(S)  WAR IN THE MODERN WORLD (3-0-3)

HIST 295(F)  THE AMERICAN SOUTH (3-0-3)
Survey of the history of the American South from the development of Native American cultures to the present. Includes social, cultural, and intellectual history, with emphasis on slavery and the plantation economy, the rise of southern distinctiveness, the Civil War and Reconstruction, sharecropping, political reform, the civil rights movement, the rise of the Sunbelt, southern religion, music, and literature, and the future of southern regionalism. Offered with additional work as HIST 395. Instructor: Boles

HIST 296(F)  MONEY AND AMERICAN CULTURE
A survey of European and American economic history from 1500 to the present that focuses on the cultural meanings and consequences of an expanding monetary economy. Through lectures and readings on such topics as public finance, banking, financial speculation, mining, gambling, insurance, counterfeiting, and consumer credit, we will ask how money has impacted social, political, and gender relations, influenced religious, ethical, and aesthetic values, and shaped everyday habits of thought. Instructor: Schmeller

HIST 297(F)  AMERICAN LEGAL HISTORY I (3-0-3)
This course surveys American legal and constitutional history from the colonial era to the post-Appomattox Reconstruction era. Offered with additional work as HIST 397. Not offered 2001–2002. Instructor: Staff

HIST 298(S)  AMERICAN LEGAL HISTORY II (3-0-3)
Continuation of HIST 297. From the Reconstruction era to the late 20th century. HIST 297/397 is not a prerequisite. Offered with additional work as HIST 398. Not offered 2001–2002. Instructor: Staff

HIST 300  INDEPENDENT STUDY (hours variable)
Independent study under the supervision of a history faculty member. Prerequisite: permission of instructor.

HIST 301(F)  EUROPE'S FIVE HUNDRED YEARS, 1450–1815 (3-0-3)
Enriched version of HIST 101. May not receive credit for both HIST 101 and 301. Recommended for juniors and seniors. Fall 2001: a French FLAC component will be offered with this course, FLAC 300. Instructor: Zammito

HIST 302(S)  EUROPE’S FIVE HUNDRED YEARS, 1815–PRESENT (3-0-3)
Enriched version of HIST 102. May not receive credit for both HIST 102 and 302. Recommended for juniors and seniors. Instructor: Bjork

HIST 303(F)  UNDERGRADUATE INDEPENDENT READING (3-0-3)
HIST 304(S)
Independent reading under the supervision of a faculty member. Open to a limited number of advanced students with special permission.

HIST 305(S)  RUSSIAN HISTORY (3-0-3)
Survey of Russian history from earliest times to present. Instructor: Stokes

HIST 306(F)  POLITICS AND SOCIETY IN ANCIENT GREECE (3-0-3)
Discussion of the main developments in the social, political, and intellectual life of the Greek world from the end of the Mycenaean age to the advent of Alexander the Great. Not offered 2001–2002. Instructor: Maas

(F) = fall; (S) = spring
HIST 307(S) IMPERIAL ROME FROM CAESAR TO DIOCLETIAN (3-0-3)
Examination of how Rome acquired, maintained, and understood her empire. Includes the development of a political, social, and ideological system reaching from Scotland to Mesopotamia during the three centuries of Rome’s greatest power. Instructor: Maas

HIST 308(S) THE WORLD OF LATE ANTIQUITY (3-0-3)
Study of the social, religious, and political history of the Roman world from Diocletian to the rise of Islam, with emphasis on the breaking of the unity of the Mediterranean world and the formation of Byzantine society in the Greek East. Also offered as MDST 308. Not offered 2001–2002. Instructor: Maas

HIST 309(F) DECLINE AND FALL OF THE ROMAN EMPIRE (3-0-3)
Examination of the circumstances surrounding the end of Roman political authority in Western Europe. Includes ancient and modern theories, with emphasis on the importance of the Germanic invasions. Not offered 2001–2002. Instructor: Maas

HIST 310(F) CONTEMPORARY CHINA (3-0-3)
Enriched version of HIST 220 and ANTH 220. Students may not receive credit for both HIST 220 and HIST 310 or ANTH 220/310 or any combination thereof. Not offered 2001–2002. Instructors: Smith, Lee

HIST 311(F) AMERICAN THOUGHT AND SOCIETY. (3-0-3)
Enriched version of HIST 211. May not receive credit for both HIST 211 and 311. Instructor: Haskell

HIST 312(S) AMERICAN THOUGHT AND SOCIETY, II (3-0-3)
Enriched version of HIST 212. May not receive credit for both HIST 212 and 312. Instructor: Haskell

HIST 313(S) MODERN MEXICO (3-0-3)
Mexico is run today by politicians who see themselves as the heirs to the 1910-1917 revolution. Yet their authoritarian government rules Mexico in nearly the same way as did the dictatorships they ousted. This lecture and discussion course will examine the roots of the Mexican Revolution; the development of the coalitions of peasants, workers, and middle-class politicians that participated in the conflict; and the slow institutionalization that followed. Not offered 2001–2002. Instructor: Wolfe

HIST 314(S) CARIBBEAN NATION BUILDING (3-0-3)

HIST 315(S) BLACKS IN THE AMERICAS (3-0-3)
Enriched version of HIST 215. May not receive credit for both HIST 215 and 315. Instructors: E. Cox, Byrd

HIST 317(F) THE UNITED STATES, 1776–1877 (3-0-3)
Enriched version of HIST 117. May not receive credit for both HIST 117 and 317. Instructor: Schmeller

HIST 318(S) THE UNITED STATES, 1877–PRESENT (3-0-3)
Enriched version of HIST 118. May not receive credit for both HIST 118 and 318. Instructor: Schmeller

HIST 320(F) SCIENCE IN ANTIQUITY AND THE MIDDLE AGES (3-0-3)
Survey of science from ancient Mesopotamia, Egypt, and Greece to the end of the Middle Ages. No expertise in science required. Also offered as MDST 320. Not offered 2001–2002. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 321(S)  THE SCIENTIFIC REVOLUTION (3-0-3)
Study of the radical transformation in content, method, and institutional setting of Greek science (which was assimilated during the High Middle Ages) between 1400 and 1700. Includes Copernicus, Kepler, Galileo, Descartes, Newton, and others, viewed within the general cultural history of this period. Not offered 2001–2002. Instructor: Staff

HIST 322(S)  PHYSICAL SCIENCE FROM NEWTON TO EINSTEIN (3-0-3)
Study of the physical sciences from the establishment of the Newtonian world view (c. 1700) to its breakdown in the 20th century. Not offered 2001–2002. Instructor: Staff

HIST 325(F)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE EARLY MIDDLE AGES (3-0-3)
Enriched version of HIST 202. May not receive credit for both HIST 202 and 325. Also offered as MDST 325. Instructor: Stahl

HIST 326(S)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE HIGH MIDDLE AGES (3-0-3)
Enriched version of HIST 203. May not receive credit for both HIST 203 and 326. Also offered as MDST 326. Instructor: Stahl

HIST 327(F)  SPANISH AND PORTUGUESE OVERSEAS EXPANSION (3-0-3)

HIST 328(F)  LATIN AMERICA GENDERS (3-0-3)
Although Latin America is a collection of extraordinarily diverse cultures, ranging from modern urban societies to Indian peasant villages, many people assume the region shares a simple and easily identifiable set of gender relations. Male dominance is supposedly demonstrated by the wide embrace of machismo. A close historical examination of Latin America, however, reveals a far more complicated and nuanced set of relations between the sexes. Also offered as WGST 328. Not offered 2001–2002. Instructor: Wolfe

HIST 329(S)  TOPICS IN THE FIRST EUROPEAN EXPANSION, 1492–1640 (3-0-3)
Study of early European expansion in the 16th century and the establishment of overseas colonial empires by France, Spain, Portugal, England, and the Netherlands, with emphasis on the rationales for empire-building created by concepts of “voluntary” subjection (through commercial treaties and conversion) and of involuntary submission (through conquest during a “just war”). Not offered 2001–2002. Instructor: Seed

HIST 331(F)  HEALTH AND MEDICINE IN AMERICA
Questions of health and medicine have deeply affected American life from pre-Columbian times to the present day. This course examines health and medicine from the colonial era to the present. Using a variety of sources and interpretations, we will trace important developments in these areas and will try to understand their immense impact on American society, culture, and intellectual life. Not offered 2001–2002. Instructor: Oliver

HIST 332(F)  ENGENDERING AMERICAN DEMOCRACY: THE HISTORY OF THE RIGHT TO VOTE
This course traces the complicated history of American voting rights from the colonial period through the present and focuses our attention on changing ideas about democracy, sovereignty, and consent. Centering our attention on a series of expansions and contractions in the America electorate, we will assess the importance of class, gender, and race to the cultural, political, and legal history of enfranchisement. Limited enrollment. Permission of instructor required. Also offered as WGST 232. Instructor: Sneider.
HIST 335(F)  CARIBBEAN HISTORY TO 1838 (3-0-3)
Study of Caribbean history from the arrival of the Europeans to the abolition of slavery in the British West Indies in 1838, with emphasis on the social and economic history of the region. Includes the question of why slavery and the plantation system both emerged and fell. Not offered 2001–2002.  Instructor: E. Cox

HIST 336(S)  CARIBBEAN HISTORY FROM 1838–PRESENT (3-0-3)
Study of the social, economic, and political history of the Caribbean people from the abolition of slavery to the emergence of independent nations in the modern era. Not offered 2001–2002.  Instructor: E. Cox

HIST 337(S)  GENDER AND POLITICS IN EUROPEAN HISTORY
Enriched version of HIST 237. Students may not receive credit for both HIST 237 and HIST 337. Also offered as WGST 437. Instructor: Quillen

HIST 338(S)  HUMANIST TRADITION AND ITS CRITICS (3-0-3)
Exploration of aspects of Western humanist and antihumanist traditions from the early modern period to the present, with emphasis on how writers within each tradition understood fundamental terms like human nature, self, community, morality, and freedom. Includes literary, theological, and philosophical texts, as well as contemporary critical theory. Must see the instructor before preregistration. Instructor: Quillen

HIST 339(S)  MORALITY AND HISTORY (3-0-3)
Exploration of the idea of morality as having a history and therefore being susceptible to change. Includes selected readings, drawn mainly from Anglo-American history and philosophy, that range over a period of several centuries. Not offered 2001–2002. Instructor: Haskell

HIST 340(S)  VICTORIAN INTELLECTUALS (3-0-3)

HIST 341(F)  PRE-MODERN CHINA (3-0-3)
Survey of Chinese history from antiquity to c. 1800, highlighting salient aspects of China’s heritage. Instructor: Smith

HIST 342(S)  MODERN CHINA (3-0-3)
Continuation of HIST 341. Includes China’s revolutionary transformation in the 19th and 20th centuries, from the Ch’ing dynasty to the People’s Republic. May take HIST 341 and 342 separately. Instructor: Smith

HIST 344(F)  INTRODUCTION TO WOMEN’S HISTORY (3-0-3)
Enriched version of HIST 244. May not receive credit for both HIST 244 and 344. Also offered as WGST 314. Not offered 2001–2002. Instructor: Quillen

HIST 345(S)  EARLY MODERN EUROPE: HUMANISM AND EXPANSION (3-0-3)
Exploration of major cultural developments in Western Europe from the rise of Italian humanism in the 14th century to European conquest and expansion in the 16th century. Also offered as MDST 345. Not offered 2001–2002. Instructor: Quillen

HIST 346(S)  REFORMATION EUROPE (3-0-3)
Survey of Western Europe in the 16th century, with emphasis on the interplay between politics and religion in the rise and consolidation of Protestantism and the Catholic revival. Not offered 2001–2002. Instructor: Quillen

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 349(S) WOMEN AND GENDER IN 19TH-CENTURY EUROPE (3-0-3)
Examination of the political and cultural discussions concerning the so-called “Woman Question” in 19th-century Europe. Includes the role of public and private legal rights in republicanism and the early feminist movement, the reformulation of notions of gender equality in the context of 19th-century socialist movements, and the challenges to gender identity posed by cultural modernism at the end of the century. Also offered as WGST 420. Not offered 2001–2002. Instructor: Caldwell

HIST 350(F) AMERICA FROM 1900–1940 (3-0-3)
Survey of major economic, social, and political developments in the U.S. from 1900 to 1940. Not offered 2001–2002. Instructor: Matusow

HIST 351(S) AMERICA SINCE 1945 (3-0-3)

HIST 352(F) COMPARATIVE MODERNIZATION OF CHINA AND JAPAN (3-0-3)
Comparison of the historical development of China and Japan in the 19th and early 20th centuries, with emphasis not only on domestic issues and Sino-Japanese relations but also on the larger international environment. Not offered 2001–2002. Instructor: Smith

HIST 354(F) GERMAN HISTORY, 1648–1890 (3-0-3)
Survey of the “Germanies” from the rise of the absolutist state following the Thirty Years’ War to the unification of Germany in 1871. Includes the development of the bureaucratic and military institutions of the modern state, changing conceptions of state and society, and the major social and economic changes of the period. Instructor: Staff

HIST 355(S) FROM DEMOCRACY TO DICTATORSHIP: GERMAN HISTORY, 1890–1945 (3-0-3)
From 1890–1945, Germans experienced dramatic changes in their political environment. This lecture class will examine these changes, taking into account not only political history, but also attempts to come to terms with the challenges posed by organized capitalism, the rise and fall of socialism, the development of an interventionist state, cultural critique and political culture, the Nazi social revolution, and the Holocaust. Not offered 2001–2002. Also offered as MDST 357. Instructor: Caldwell

HIST 357(F) JEWS AND CHRISTIANS IN MEDIEVAL EUROPE
Enriched version of HIST 257. May not receive credit for both HIST 257 and HIST 357. Also offered as MDST 357. Instructor: Haverkamp

HIST 359(S) THE MEDIEVAL CULTURES OF JUDAISM AND CHRISTIANITY
Enriched version of HIST 259. May not receive credit for both HIST 259 and HIST 359. Also offered as MDST 359. Instructor: Haverkamp

HIST 360(F) SOCIETY AND THE SEXES IN MODERN FRANCE (3-0-3)
Examination of gender roles, gender ideology, and sexual practices in the construction of French society and culture from the Enlightenment to World War II. Includes sexual politics and the emergent “public sphere” in the 18th century, masculine and feminine images of the state during the French Revolution, feminist discourses and politics in 1789, 1848, and during the campaign for women’s suffrage, and family structures, patriarchy, and notions of property. Taught in English. Some readings may be in French. Also offered as FREN 360 and WGST 311. Not offered 2001–2002. Instructor: Sherman

(F) = fall; (S) = spring
HIST 361(F)  HISTORY OF BRITAIN FROM HENRY VIII TO THE DEFEAT OF NAPOLEON, 1509–1815
Examination of the personalities and forces that changed England from a backwater of Europe into, by 1815, the United Kingdom and the British Empire, the leading nation, and empire, in the world. About equal amounts of lecture and discussion. Not offered 2001–2002. Instructor: Wiener

HIST 362(S)  MODERN BRITISH HISTORY, 1815–2000 (3-0-3)
Exploration of Britain’s take-off into the Industrial Revolution, the flourishing of the Empire, and the adjustment to the end of Empire and the diminishment of world political and economic stature from the First World War to Tony Blair’s “New Britain.” Includes the use of novels and films to examine these transformations. Instructor: Wiener

HIST 363(S)  GENDER AND SOCIETY IN EARLY MODERN EUROPE (3-0-3)
Exploration of the relationship between ideas about gender and the social, political, and legal institutions in Europe from c. 1350 to 1800. Includes the structure and role of the family, gender roles in religious institutions, and the regulation of sexuality. Also offered as WGST 338. Not offered 2001–2002. Instructor: Quillen

HIST 364(F)  THE HABSBURG MONARCHY, 1526–1918 (3-0-3)
This topical and chronological course examines the rise and fall of the Habsburg Monarchy. Several general themes will provide structure for weekly class discussions: the question of diversity of geography and peoples in the empire; the historical relationship between state and society in the Monarchy, focusing attention on “confessionalization” and “enlightened absolutism.” In addition to historical problems specific to the Habsburgs, the course analyzes “empire” as a form of polity, contrasting it to the nationalist movements that dominated the 19th and 20th centuries. An examination of the religious, political, and socio-economic conflicts arising between the Monarchy’s diverse populations will help us gain more insight into the centrifugal forces that challenged the very notion of an imperial state. Study will include sources of cohesion in the empire that enabled the Habsburgs to hold the monarchy together until the Great War. Instructor: Dunlap

HIST 366(S)  HISTORY OF MODERN BRAZIL (3-0-3)
Latin America’s largest and most economically powerful nation, Brazil boasts a history that is quite distinct from the histories of its Spanish American neighbors. This lecture and discussion course will examine Brazil’s history from its peaceful independence declaration in 1822 to its present struggles to create a democratic society in the aftermath of a twenty-year military dictatorship. We will pay close attention to Brazil’s legacy as the world’s largest slave-holding society in the 19th century, its struggle to conquer its huge territory, and the interaction of those factors in shaping its national identity. Fall 2001: a Portuguese FLAC component will be offered with this course FLAC–PORT 200. Instructor: Wolfe

HIST 367(F)  HISTORY OF SOUTH AFRICA
South Africa’s history over the past four centuries is one of brutality in conquest, ethnic and racial manipulation, land dispossession, and a deeply ingrained tradition of resisting the state—but also of joy, spiritual power, cross-racial affinities, and state compromise. This course will investigate these issues in a chronological and thematic way, starting from the early history of the subcontinent focusing on the 19th- and 20th centuries. Limited enrollment. Not offered 2001–2002. Instructor: Odhiambo

HIST 369(S)  FILM, LITERATURE AND THE JAPANESE PAST
Every day, we retell our past to find meaning in our present. Since 1945, authors and film directors in Japan have made sense of the horrors of war, the challenges of rapid economic growth, and the crisis of affluence through artistic reinterpretations of historical themes. In this seminar, we will examine both the historical allusions and the uses to which they have been put in 20th-century Japanese film and literature. Instructor: Thal

HIST 370(S)  EUROPEAN INTELLECTUAL HISTORY: BACON TO HEGEL (3-0-3)
Survey of major thinkers and intellectual movements from the scientific revolution to the French Revolution. Includes the use of primary and secondary sources to establish the main contours of philosophical, political, and cultural expression and to relate them to their historical context. Instructor: Zammito

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 371(F) OLD REGIME AND REVOLUTIONARY FRANCE (3-0-3)
Study of transformations in French society, culture, and politics before, during, and after the French Revolution. Taught in English. Also offered as FREN 371. *Instructor: Sherman*

HIST 372(S) THE MAKING OF MODERN FRANCE, 1815–1995 (3-0-3)

HIST 373(F) ANCIENT AND MEDIEVAL JEWISH HISTORY, 70–1492 (3-0-3)
Enriched version of HIST 273. May not receive credit for both HIST 273 and HIST 373. Also offered as MDST 373. Not offered 2001–2002. *Instructor: Haverkamp*

HIST 374(S) MEDIEVAL AND MODERN JEWISH HISTORY, 1500–1948 (3-0-3)
Enriched version of HIST 274. May not receive credit for both HIST 274 and HIST 374. Not offered 2001–2002. *Instructor: Haverkamp*

HIST 375(S) EUROPEAN ROMANTICISM, 1750–1850 (3-0-3)
Investigation of the emergence, triumph, and defeat of romanticism as a major cultural force in European History, with emphasis on national and epochal diversity within romanticism in Britain, Germany, and France. Includes Rousseau, Goethe, Schiller, Schlegel, Schelling, Wordsworth, Coleridge, Byron, Stendhal, Hugo, and Baudelaire, as well as music and art. Not offered 2001–2002. *Instructor: Zammito*

HIST 377(F) THE ANCIENT CITY (3-0-3)
Compares the historian’s and social scientist’s approaches to the emerging preindustrial city. Cities are the products of an interaction of physical and social environments and their histories may reflect their enormous symbolic weight. We use the comparative method to explore general principles of development lurking behind the different faces on ancient urbanism. Also offered as ANTH 377. Not offered 2001–2002. *Instructors: Maas, R. McIntosh*

HIST 379(F) THE CARIBBEAN IN THE AGE OF REVOLUTION, 1770-1820
Enriched version of HIST 279. May not received credit for both HIST 279 and HIST 379. *Instructor: E. Cox.*

HIST 382(S) CLASSICAL ISLAMIC CULTURE (3-0-3)
An introduction to the culture and religion of the Islamic world from the 9th through the 14th centuries. Topics include Islamic law and theology, philosophy, ritual, Islamic science and medicine, classical Arabic literature, the impact of Arabo-Islamic culture on Jewish and Christian cultures of the Islamic world. Also offered as MDST 382. Not offered 2001–2002. *Instructor: Sanders*

HIST 384(S) THE CRUSADERS: HOLY WAR IN MEDIEVAL CHRISTENDOM AND ISLAM (3-0-3)
Examination of the Crusades (11th to 15th centuries) from the point of view of both Christian Europe and the Islamic Near East. Includes the political and military history of the Crusades, as well as the social, cultural, and religious transformations that caused, and were wrought by, these conflicts. Also offered as MDST 384. Not offered 2001–2002. *Instructor: Sanders*

HIST 385(S) CHRISTIANS AND JEWS IN THE MEDIEVAL ISLAMIC WORLD (3-0-3)
Examination of Christian and Jewish communities in the Islamic world from the rise of Islam to the end of the Ottoman Empire. Includes the legal status of dhimmis (protected peoples), social and economic life, communal organization, the interplay of Jewish and Muslim laws, and political authority in these communities, as well as discussion of their modern historiography, a comparative study of Jewish communities in Christendom and Islam, and discussion of Muslim communities living under Christian rule in the Middle Ages. Also offered as MDST 385. Not offered 2001–2002. *Instructor: Sanders*
HIST 387(S)  LIFE ON THE NILE: EGYPTIAN POLITICS, CULTURE, AND SOCIETY, MEDIEVAL TO MODERN TIMES (3-0-3)
Examination of Egyptian history from the Arab conquest in 641 to the 20th century, with emphasis on major themes in Egypt’s political, social, and cultural life, on historical continuities and discontinuities, and on problems of historical interpretation. Also offered as MDST 387. Not offered 2001–2002. *Instructor: Sanders*

HIST 388(F)  THE ATLANTIC WORLD: ORIGINS TO THE AGE OF REVOLUTION
Enriched version of HIST 188. Students may not receive credit for both HIST 188 and HIST 388. *Instructor: Byrd*

HIST 389(F)  EASTERN EUROPE TO 1945 (3-0-3)
Study of the historical development of the countries of Eastern Europe in the central region (e.g., Poland, Czechoslovakia, and Hungary) and in the southeast (e.g., Romania, Bulgaria, Albania, and Yugoslavia) through the end of World War II. Not offered 2001–2002. *Instructor: Stokes*

HIST 390(S)  EASTERN EUROPE SINCE 1945 (3-0-3)
Continuation of HIST 389. Includes the development of Eastern Europe since 1945, with emphasis on the causes and results of the revolutions of 1989. HIST 389 recommended but not required. Not offered 2001–2002. *Instructor: Stokes*

HIST 391(F)  HISTORY OF AMERICAN WOMEN I: COLONIAL BEGINNINGS TO THE CIVIL WAR
Enriched version of HIST 241. Students may not receive credit for both HIST 241 and HIST 391. Also offered as WGST 381. *Instructor: Sneider*

HIST 392(S)  HISTORY OF AMERICAN WOMEN II: CIVIL WAR TO THE PRESENT
Enriched version of HIST 242. Students may not receive credit for both HIST 242 and HIST 392. Also offered as WGST 382. *Instructor: Sneider*

HIST 393(F)  THE ART OF WAR FROM MACHIAVELLI TO NAPOLEON (3-0-3)
Enriched version of HIST 293. May not receive credit for both HIST 293 and 393. *Instructor: Gruber*

HIST 394(S)  WAR IN THE MODERN WORLD (3-0-3)
Enriched version of HIST 294. May not receive credit for both HIST 294 and 394. Not offered 2001–2002. *Instructor: Gruber*

HIST 395(F)  THE AMERICAN SOUTH (3-0-3)
Enriched version of HIST 295. May not receive credit for both HIST 295 and 395. *Instructor: Boles*

HIST 397(F)  AMERICAN LEGAL HISTORY I (3-0-3)
Enriched version of HIST 297. May not receive credit for both HIST 297 and 397. Not offered 2001–2002. *Instructor: Staff*

HIST 398(S)  AMERICAN LEGAL HISTORY II (3-0-3)
Enriched version of HIST 298. May not receive credit for both HIST 298 and 398. Not offered 2001–2002. *Instructor: Staff*

HIST 403(F)  HONORS THESIS (3-0-3)
Restricted to students who have been admitted to the honors program; consent of the director of the honors program is required. Students must take both HIST 403 and 404 to gain credit. *Instructor: Wolfe*
HIST 404(S)  HONORS THESIS (3-0-3)
Continuation of HIST 403, which is a prerequisite for enrollment. Completion of this course is required to obtain credit for HIST 403. Instructor: Wolfe

HIST 405(F)  ISSUES IN COMPARATIVE HISTORY (3-0-3)
Exploration of the theory and practice of comparative history. Includes readings and discussions on methodology, then student oral presentations of select topics as a prelude to a final paper. Collaborative projects are possible and even encouraged. Not offered 2001–2002. Instructor: Smith

HIST 409(F)  HISTORY OF EAST AFRICA (3-0-3)

HIST 410(F)  KENYA IN MODERN HISTORY (3-0-3)
Study of Kenya’s transformation from tribal societies to a modern state. Includes a survey of migrations and settlement, the emergence of precolonial societies, their underlying cultural unities, and precapitalist socioeconomic formations, as well as the British conquest, the colonial state and economy, changes (e.g., educational, religious, social, and cultural), traditions of resistance and collaboration, the invention of tribes, politics (e.g., clan, district, and territorial), Mau Mau, decolonization and constitutional changes, the postcolonial state, and Kenya toward the end of the 20th century. Instructor: Odhiambo

HIST 415(S)  THE RISE AND FALL OF THE BRITISH EMPIRE
Seminar course that teaches how the largest empire in world history came into existence, the impact it had on people and states worldwide, and its decline and fall. Course work will consist of reading, viewing and evaluating films, and, most importantly, preparing and summarizing in class a research paper on a topic of choice. Some background desirable in either British history or the history of one of the areas impacted by the British. Not offered 2001–2002. Instructor: Wiener

HIST 416(S)  SEMINAR IN CONTEMPORARY AFRICAN AMERICAN HISTORY (3-0-3)
A reading- and writing-intensive seminar focusing on selected issues in black culture, politics, and community in the United States since the climax of the civil rights movement. Limited enrollment. Instructor: Byrd

HIST 421(F)  JAPANESE HISTORY I: EARLY JAPAN TO THE AGE OF THE SAMURAI (3-0-3)
Enriched version of HIST 221. May not receive credit for both HIST 221 and 421. Not offered 2001–2002. Instructor: Thal

HIST 422(S)  JAPANESE HISTORY II: MODERN JAPAN (3-0-3)
Enriched version of HIST 222. May not receive credit for both HIST 222 and 422. Not offered 2001–2002. Instructor: Thal

HIST 424(F)  NAVIGATION AND CARTOGRAPHY (3-0-3)
HIST 425(S)  COLONIAL/POSTCOLONIAL DISCOURSE
THEORY (3-0-3)
This seminar will focus on how Europeans and Americans have defined colonized peoples as subjects of knowledge from the 16th through the late 20th centuries. Themes vary. Offered with additional work as HIST 524. Prerequisite: a third-world history course, a course in literary or anthropological theory, or experience abroad. Not offered 2001–2002. Instructor: Seed

HIST 426(S)  COMPARATIVE SLAVERY AND RACE RELATIONS
IN THE AMERICAS (3-0-3)
Comparative analysis of slavery and race relations in the U.S., the Caribbean, and Latin America, chiefly to the late 19th century. Includes the relative harshness or mildness of the institution of slavery in various systems, opportunities for advancement for former slaves, and the resultant nature of race relations. Not offered 2001–2002. Instructor: E. Cox

HIST 427(F)  HISTORY OF THE CIVIL RIGHTS MOVEMENT,
1954 TO THE PRESENT (3-0-3)
Examination of the modern civil rights movement, with emphasis on the goals and strategies of major spokespersons and leaders, as well as the achievements of the campaign. Includes the extent of its success or failure and whether or not an “unfinished” agenda needs to be completed. Limited enrollment. Instructor: E. Cox

HIST 428(F)  COMPARATIVE LABOR HISTORY OF
THE AMERICAS (3-0-3)
The history of work and politics among free wage laborers in the Americas in the 19th and 20th centuries. We will read studies of workers’ experiences during the process of industrialization and urbanization as well as analyses of the creation of unions and progressive political movements. One goal will be to integrate the study of class, gender, and race as we consider workers’ lives in their homes, neighborhoods, at work, and in politics. We will compare the experiences of Latin America with those of the United States, but no prior background in Latin American history is required. Not offered 2001–2002. Instructor: Wolfe

HIST 429(F)  TECHNOLOGIES OF NATIONALISM (3-0-3)
The rise of the modern nation-state and the development of nationalism throughout the globe took place in an era of scientific and technological innovation. In this seminar we will analyze, through a series of case studies from around the world, the close relationship between nationalism and technology. Topics that will be studied include the advent of the railroad, urban reform and renewal, automobility, air travel and warfare, the space race, and the information technology revolution. Limited enrollment. Offered for graduate credit as HIST 579. Instructor: Wolfe

HIST 434(S)  ISLAM AND THE WEST (3-0-3)
This seminar explores issues of contact and exploration between the Western and Islamic worlds. Beginning with the Crusades and continuing through the Ottoman period, the seminar ends in the modern era. It investigates how identities are formed and reshaped through contact with other cultures, specifically how the ideas of the West and Islam were developed in association with one another. Rather than treating them as stable categories, this seminar seeks to understand how traditions are “invented” by tracing the relationship between civilization and despotism, freedom and tyranny, religious tolerance, and holy war. Instructor: Makdisi

HIST 435(S)  COLONIALISM AND NATIONALISM IN THE
MIDDLE EAST (3-0-3)
This seminar focuses on themes of colonialism and nationalism in the modern Middle East. Beginning with Napoleon’s invasion of Egypt in 1798, the seminar delves into specific case studies of European and Middle Eastern encounters and their representations that span both the 19th and 20th centuries. Not offered 2001–2002. Instructor: Makdisi

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
**HIST 436(F)  SEMINAR IN THE HISTORY OF THE MIDDLE EAST: AMERICA AND THE MIDDLE EAST**

Exploration of American political, cultural, and religious involvement in the Middle East. Includes how Americans represented themselves, how these representations have changed over time, how Americans represented the East, and how local inhabitants perceived America. Finally, how do these representations relate to the Ottoman empire, to World War I, and to the Arab-Israeli conflict? *Instructor: Makdisi*

**HIST 438(F)  WOMEN AND GENDER IN ISLAMIC SOCIETIES (3-0-3)**

Examination of some features of the legal position and social realities of men and women in the Islamic world, with emphasis on how boundaries of gender have traditionally been drawn. Includes family and sexual ethics, the harem, polygyny, divorce, and eunuchs (who played an important role both in the military and in certain religious institutions). Also offered as MDST 438 and WGST 455. Not offered 2001–2002. *Instructor: Sanders*

**HIST 444(S)  MEMORY AND COMMEMORATION IN THE MIDDLE AGES**

Memory and commemoration are in general terms described as intentions, attitudes, acts, and media that should prevent oblivion of individuals and communities (beyond death). In this way, they determine thought, emotions, and actions in fundamental ways. They possess universal dimensions which go back to antiquity and are influential up to the present. Today, they are often driven out either into the atomistic sphere of individual remembrance, into the institutional realm of politics, or into the secluded world of museums. However, this suppression enhances their importance for our life. *Instructor: Haverkamp*

**HIST 445(F)  JEWS AND CHRISTIANS: PERCEPTIONS OF THE OTHER**

This course will study how Jews and Christians imagined the other in the Middle Ages and how these perceptions persisted and changed during the modern times. Topic of discussion: just as the Jewish position towards Christianity was influenced by Christian attitudes towards Jews, we must assume that the Christian stance was influenced by Jewish attitudes towards Christianity. Also offered as MDST 465. *Instructor: Haverkamp*

**HIST 446(S)  JEWISH COMMUNITIES IN THE MIDDLE AGES AND EARLY MODERN TIMES (3-0-3)**

New forms of communal organizations developed in medieval Christian Europe that were different from the patterns of Jewish self-government in Babylon, Israel, and Islamic countries. This course will discuss characteristics of Jewish communal organizations, their parallel features and their connections with Christian communal organizations, and their relationships to rising modern states. Also offered as MDST 446. Not offered 2001–2002. *Instructor: Haverkamp*

**HIST 448(S)  CREATING MODERN JAPAN: THE MEIJI RESTORATION (3-0-3)**

The Meiji Restoration is often considered the founding event of modern Japan, similar in stature to the French and American Revolutions. This seminar examines the political, social, and cultural creation of modern Japan by investigating why the Meiji Restoration occurred and how the changes of the late 19th century shaped modern Japan. Not offered 2001–2002. *Instructor: Thal*

**HIST 450(S)  TRADITIONAL CHINESE CULTURE (3-0-3)**

Enriched version of HIST 250. May not receive credit for both HIST 250 and 450. Not offered 2001–2002. *Instructor: Smith*

**HIST 451(S)  PHILOSOPHIES AND THEOLOGIES OF HISTORY (3-0-3)**

Study of modern thought on the meaning and ultimate direction of history, from its roots in eschatology and Augustine to flowering in progress and historicism. Includes Vico, Lessing, Hegel, Ranke, Burckhardt, Nietzsche, Harnack, Troeltsch, Meinecke, Spengler, Heidegger, Butterfield, Dawson, Schweitzer, Jaspers, and Toynbee. Also offered as RELI 451. *Instructor: Stroup*
HIST 452(F)  ART, POLITICS, AND SOCIETY IN 19TH-CENTURY FRANCE (3-0-3)
Seminar on realism, impressionism, and “official” and institutional culture. Also offered as FREN 452. Not offered 2001–2002. Instructor: Sherman

HIST 453(F)  HISTORY AS TEXT IN MODERN FRANCE (3-0-3)
Examination of major 19th- and 20th-century historical texts both as narratives about the French past and as discourses embodying particular attitudes toward contemporary society and politics. Includes the emergence of a “scientific” history of the Revolution (e.g., Michelet, Tocqueville, and Taine) and its relation to the historical novel; the Annales school and the question of French identity (e.g., Bloch and Braudel); and the politics of theory in recent French history (e.g., Foucault and Chartier). Also offered as FREN 453. Offered with additional work as HIST 553. Not offered 2001–2002. Instructor: Sherman

HIST 456(F)  POLITICS AND CULTURE IN INTERWAR EUROPE, 1920–1940 (3-0-3)
Exploration of the cultural and political crisis in Europe between the wars, using selections from major thinkers of the time and recent secondary literature. Includes the political challenge of fascism and communism, new developments in art and literature (e.g., expressionism and surrealism), and the development of a new mass culture, especially in Nazi Germany, Stalinist Russia, and republican France. Not offered 2001–2002. Instructor: Caldwell

HIST 458(F)  SOCIAL AND POLITICAL THOUGHT IN POSTWAR GERMANY
This seminar investigates the reconstruction of German social and political thinking from 1945–1989. Among the topics are: the “end of history” in functionalist sociology (Schelsky, Gehlen), Ernst Bloch’s reformulation of Marxism, literary representations of the Nazi past (Grass) and the state socialist present (Heiner Mueller), reconsiderations of the public sphere (Kluge, Negt, Haug), Christa Wolf’s feminist critique, and Niklas Luhmann’s systems theory. Permission of instructor required for enrollment. Also offered as HIST 558. Not offered 2001–2002. Instructor: Caldwell

HIST 459(S)  TOPICS IN MODERN GERMAN HISTORY (3-0-3)
Seminar on selected topics in the history of Germany. Content varies from year to year. Also offered as GERM 405. Instructor: Bjork

HIST 460(F)  ADVANCED SEMINAR IN ANCIENT HISTORY: THE AGE OF JUSTINIAN (3-0-3)
Study of developments in law, religion, foreign affairs, art and architecture, the status of women, and science during the reign of the Roman emperor Justinian (527-565), exploring changes from the classical to the medieval Mediterranean world. Includes ancient texts in translation and modern scholarship, with emphasis on research techniques and writing. Limited enrollment. Prerequisites: HIST 201 and 307 or permission of instructor. Also offered as MDST 460. Not offered 2001–2002. Instructor: Maas

HIST 462(S)  NEWTON AND THE 18THcentURY
Seminar requiring three short research papers. Enrollment limited to 15. Prerequisite: permission of instructor. Not offered 2001–2002. Instructor: Matusow

HIST 463(S)  CRIME AND PUNISHMENT IN BRITISH HISTORY (3-0-3)
Examination of how the British over the past 400 years developed one of the world’s most orderly and peaceable societies, the price paid for that achievement, and how it gave way to the present “law and order crisis” not dissimilar to the American crisis. Includes a comparison of the British criminal justice history with that of continental Europe and the U.S. Substantial amount of writing and discussion required. Not offered 2001–2002. Instructor: Zammito

HIST 464(S)  FOREIGN POLICY OF NIXON AND KISSINGER (3-0-3)
Seminar requiring three short research papers. Enrollment limited to 15. Prerequisite: permission of instructor. Not offered 2001–2002. Instructor: Matusow

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 465(S)  
**COLONIAL AMERICA** (3-0-3)  

HIST 466(S)  
**THE AMERICAN REVOLUTION, 1754–1789** (3-0-3)  
Study of the origins and implications of the American Revolution, with emphasis on constitutional, social, and political developments. **Instructor: Gruber**

HIST 468(S)  
**WOMEN AND THE WELFARE STATE: SEXUAL POLITICS AND AMERICAN POVERTY**  
In contemporary America, women and children typically have been the major recipients of the federal and state aid that come under the heading of welfare. It is less well-known that women have also been some of the major architects of the social programs that together constitute the American welfare system. This seminar will focus on women’s contributions to the growth of the welfare state and will investigate how it has been shaped by understandings of gender, race, and class. Also offered as WGST 468. Not offered 2001–2002. **Instructor: Sneider**

HIST 469(S)  
**INTER-AMERICAN RELATIONS** (3-0-3)  
This seminar explores the long and contentious relationships between the U.S. and the Latin American nations. Focus will be placed on events from the late 19th and 20th centuries. Analysis of these events will be presented through the lenses of political, economic, social, and cultural history. Limited enrollment. Offered for graduate credit as HIST 569. **Instructor: Wolfe**

HIST 470(S)  
**THE CULTURE OF MUSEUMS** (3-0-3)  
This course will explore the museum as a central institution of Western culture since the 18th century. Topics include the politics of collecting and display, the representation of national pasts and ethnic “others” in museums, exhibitions and the cultural marketplace, the museum as public space, and museums as sites of knowledge and classification of objects. Readings will be drawn from a variety of approaches, both historical and theoretical, and will be supplemented by working visits to Houston-area institutions. The scope of the course is comparative in terms both of institutions and of cultures, but special attention will be paid to art museums and to France. Also offered as ENGL 493 and HART 493. Not offered 2001–2002. **Instructor: Sherman**

HIST 472(S)  
**GENDER, WAR, AND REPRESENTATION IN MODERN ENGLAND AND FRANCE** (3-0-3)  
This course explores the rhetoric of war as a central component in the construction of modern gender roles. Topics will include representations of the body, constructions of history, the places of memory and forgetting, and connections between high and popular culture. We will be looking at films, memoirs, poetry, tourist literature, painting, and sculpture, as well as novels. The course begins in the 19th century but will focus on the two world wars. Also offered as ENGL 479, FREN 469, and WGST 461. Not offered 2001–2002. **Instructors: Sherman, Michie**

HIST 476(S)  
**TRADITION, IDENTITY, AND HISTORICAL WRITINGS** (3-0-3)  
Exploration of the intersection of cultural tradition, collective identity, and historical writing in the modern West. Includes the uses made of the classical past in movements from Renaissance humanism to contemporary Afrocentrism, the development of nationalist traditions, and the creation of European identities through juxtapositions with other cultures. Limited enrollment. Also offered as FREN 476. Not offered 2001–2002. **Instructors: Quillen, Sherman**

HIST 481(S)  
**THE CIVIL WAR IN AMERICAN CULTURE: BEFORE, DURING AND AFTER**  
This seminar is comprised of three parts. First, an assessment of the causes of the Civil War. Second, an exploration of American culture during the war, asking how Unionists, Confederates, men, women, and African-Americans experienced and understood the conflict. Finally, an analysis of the role of the war in American political and cultural history from 1865 to the present by examining changing interpretations put forth by historians, politicians, novels, films, and public monuments and festivals. **Instructor: Schmeller**

(F) = fall; (S) = spring
HIST 488(F)  TOPICS IN MEDIEVAL HISTORY
Research seminar on selected issues, subjects or themes in medieval history. Also offered as MDST 488. Instructor: Stahl

HIST 492(S)  MODERNITY AND RELIGION
The role of religion and faith in the modern world has often been problematic. Considered antithetical to such hallmarks of European and American modernity as science, capitalism, and separation of church and state, religious beliefs and practices have nevertheless occupied a vibrant place in modern intellectual, social and political history. In this seminar, we will analyze the role of religion in the 20th century through case studies from around the world. Topics vary. Also offered as RELI 492. Offered for graduate credit as HIST 572. Instructor: Thal

HIST 493(F)  CULTURAL RESPONSES TO GERMANY DURING W.W.I.
Few Americans could now imagine that, from 1914 to 1917, equally good reasons could be articulated for the United States to enter W.W.I on the German side as on the side of England and France. Americans were subjected to a barrage of propaganda from England, and from Germany, but the British won what was undoubtedly one of the most important battles of the war by masterfully persuading Americans of the barbarity of the German nation. This seminar will focus on primary sources in this propaganda battle, and in so doing, will examine a profound transformation of the image of Germany in the west, as well as the self-image of the German people. Instructor: Good

HIST 494(S)  PROBLEMS IN 19TH- AND 20TH-CENTURY EUROPEAN HISTORY (3-0-3)

HIST 496(S)  A TURBULENT TIME: THE WORLD OF THE HAITIAN REVOLUTION (3-0-3)
This seminar examines the impact of the Haitian Revolution (1791–1804) on the Americas in the late 18th and early 19th centuries. This was the only time an enslaved people had successfully seized their freedom and created an independent state. Throughout the Americas, the event was both a warning to slaveholders and an inspiration to slaves. Limited enrollment. Not offered 2001–2002. Instructor: E. Cox

HIST 498(F)  PROJECTS IN AFRO-AMERICAN HISTORY
Intensive research seminar in which participants propose and execute a collaborative project in Afro-American history. The work of the seminar will culminate with a substantive piece of public history (a group publication, exhibit, broadcast, or electronic document, for example). For further information, or to suggest a possible project, contact the instructor. Repeatable for credit. Limited enrollment. Instructor: Byrd

The following 500-level courses are for graduate students only.

HIST 501(F)  MASTER’S HISTORICAL RESEARCH (hours variable)
HIST 502(S)  Research for master’s thesis. Must take both HIST 501 and 502 to receive credit.

HIST 503(F)  GRADUATE TOPICS (hours variable)

HIST 511(F)  DIRECTED READINGS IN AMERICAN HISTORY I (4-0-4 each semester)
HIST 512(S)  History I (4-0-4 each semester)
HIST 513(F)  DIRECTED READINGS IN AMERICAN HISTORY II (4-0-4 each semester)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 515 (F)  DIRECTED READINGS IN MILITARY HISTORY I (4-0-4)
Instructor: Gruber

HIST 516 (S)  DIRECTED READINGS IN MILITARY HISTORY II (4-0-4)

HIST 517 (F)  DIRECTED READINGS IN SCIENCE AND TECHNOLOGY (4-0-4 each semester)
Instructor: Staff

HIST 518 (S)  DIRECTED READINGS IN MILITARY HISTORY II (4-0-4)

HIST 519 (F)  DIRECTED READINGS IN SCIENCE AND TECHNOLOGY (4-0-4 each semester)
Instructor: Staff

HIST 520 (S)  DIRECTED READINGS IN MEDIEVAL HISTORY (4-0-4 each semester)

HIST 521 (F)  DIRECTED READINGS IN SCIENCE AND TECHNOLOGY (4-0-4 each semester)
Instructor: Staff

HIST 522 (S)  DIRECTED READINGS IN MEDIEVAL HISTORY (4-0-4 each semester)
Instructor: Staff

HIST 523 (S)  DIRECTED READINGS IN MEDIEVAL HISTORY (4-0-4 each semester)
Instructor: Staff

HIST 524 (S)  COLONIAL/POSTcolonial DISCOURSE THEORY (4-0-4)
Graduate version of HIST 425. Students may not receive credit for both HIST 425 and 524. Not offered 2001–2002. Instructor: Seed

HIST 525 (F)  DIRECTED READINGS IN AFRICAN HISTORY (4-0-4 each semester)
Instructor: Odhiambo

HIST 526 (S)  DIRECTED READINGS IN AFRICAN HISTORY (4-0-4 each semester)
Instructor: Odhiambo

HIST 527 (F)  DIRECTED READINGS IN NON-western HISTORY, I (4-0-4)

HIST 528 (S)  DIRECTED READINGS IN NON-western HISTORY, II (4-0-4)

HIST 529 (F)  DIRECTED READING—MODERN EUROPEAN HISTORY (4-0-4 each semester)

HIST 530 (S)  DIRECTED READING—MODERN EUROPEAN HISTORY (4-0-4 each semester)

HIST 531 (F)  DIRECTED READING—MODERN EUROPEAN HISTORY (4-0-4 each semester)

HIST 532 (S)  DIRECTED READING—MODERN EUROPEAN HISTORY (4-0-4 each semester)

HIST 540 (F)  REVISIONISM IN AFRICAN HISTORY (4-0-4)
Study of the impact on African historiography of theoretical constructs and debates organized around modernization, underdevelopment, dependency, world systems, and the Marxist/neo-Marxist theories originally derived from historical studies in Europe, Asia, and Latin America. Includes the histories of specific concepts such as feudalism, Oriental despotism, modes of production, capitalism, social classes, nationalism, race, ethnicity, peasantry, class consciousness, and the state, as well as the ways they have been applied to the study of African history and have influenced the evolution of specific historiographies (e.g., “Africanist,” “nationalist,” and “radical” historiography). Not offered 2001–2002. Instructor: Odhiambo

HIST 543 (F)  GRADUATE TOPICS IN MODERN EUROPEAN HISTORY
Graduate research seminar on selected themes in modern European history. Instructor: Bjork

HIST 544 (F)  AFTER THE DELUGE: WW I AND EUROPEAN HISTORY (4-0-4)
Graduate reading seminar that examines World War I and its effects on the societies, economies, and politics of postwar Europe. Topics include the transformation of the European states during wartime; the Russian and German Revolutions; limits to economic recovery and the Great Depression; radicalization of political ideologies, left and right; and the rise of fascism. Not offered 2001–2002. Instructor: Caldwell
HIST 548(S)  MARX (4-0-4)
This graduate seminar provides an introduction to key concepts of Marxist theory, including alienation, production, reification, and revolution, through close reading of original sources. The course further traces the dissemination of these concepts into literary theory, cultural studies, and the social sciences. A series of short secondary readings identify the impact and continuing charge provided by Marxist theory for addressing aporias of representation, theories of subjectivity, new political movements, transnationality, and postindustrial capitalism. Limited enrollment. Also offered as ENGL 587. Not offered 2001–2002. Instructors: Caldwell, Joseph

HIST 549(F)  WOMEN AND GENDER IN 19TH-CENTURY EUROPE (4-0-4)

HIST 550(S)  MAIN ISSUES IN CARIBBEAN HISTORY (4-0-4)
Examination of the major local and international forces and ideas that have shaped the course of the history of the Caribbean. Instructor: E. Cox

HIST 551(S)  WOMEN, POLITICS, AND POLITICAL HISTORY
Although women were not given the vote until the ratification of the Nineteenth Amendment in 1920, women have a long history of involvement with politics, partisanship, and parties. Since the nation’s founding women have petitioned legislatures, lobbied government officials, campaigned for Democratic and Republican candidates, formed women’s auxiliaries to the regular parties, and voted in municipal and school elections. In the post-suffrage decades women pioneered the single-issue, non-partisan approach to political reform and challenged the centrality of parties to American political life even as they rose to positions of prominence with those same parties. This course introduces students to a growing body of literature on women and politics that is changing our understanding of American political life. Instructor: Sneider.

HIST 552(S)  HISTORICAL INTERPRETATION (4-0-4)

HIST 553(S)  HISTORY AS TEXT IN MODERN FRANCE (4-0-4)
Graduate version of HIST 453. Also offered as FREN 553. Not offered 2001–2002. Instructor: Sherman

HIST 555(F)  GUIDE TO THE SOURCES OF MEDIEVAL HISTORY
This seminar will introduce the typology of the sources of medieval history and the auxiliary sciences of history. Not offered 2001–2002. Instructor: Haverkamp

HIST 558(F)  SOCIAL AND POLITICAL THOUGHT IN POSTWAR GERMANY
Graduate version of HIST 458. Students may not receive credit for both HIST 458 and HIST 558. Not offered 2001–2002. Instructor: Caldwell

HIST 562(S)  NEWTON AND THE 18TH CENTURY
Graduate version of HIST 462. Students may not receive credit for both HIST 462 and HIST 562. Not offered 2001–2002. Instructor: Zammito

HIST 564(F)  GRADUATE READING SEMINAR IN EARLY AMERICA I, 1607-1800
Study of major works on the English colonies of North America, as well as topics of particular interest to individual students. Instructor: Gruber

HIST 565(S)  GRADUATE READING SEMINAR IN EARLY AMERICA II, 1607–1800 (4-0-4)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HIST 566(F)  WAR AND REVOLUTION (4-0-4)
The emphasis in this graduate seminar will be on the Anglo-American world of the 17th and 18th
centuries, but students may choose topics that go beyond the immediate focus of the course. Not
offered 2001–2002. Instructor: Gruber

HIST 567(S)  20TH-CENTURY U.S. HISTORY (4-0-4)
For graduate students only. Not offered 2001–2002. Instructor: Matusow

HIST 569(S)  INTER-AMERICAN RELATIONS (3-0-3)
Graduate version of HIST 469. Students may not receive credit for both HIST 469 and 569. 
Instructor: Wolfe

HIST 570(F)  TOPICS IN FRENCH CULTURAL HISTORY (4-0-4)
A theoretical and methodological exploration of various approaches to, and issues in, the study of
French and European cultures since the 18th century. Topics vary from year to year. Taught in
English. Also offered as FREN 570. Topic for 2001–2002: Consuming Cultures. Considers the
development of the practices of mass consumption as a problem in cultural history and theory.
Includes theoretical readings as well as topics such as the art market, the rise of the department
store, the cultural functions of consumer durables, and primitivism as a form of resistance to
consumerism. Instructor: Sherman

HIST 572(S)  MODERNITY AND RELIGION
Graduate version of HIST 492. Students may not receive credit for both HIST 492 and HIST 572. 
Instructor: Thal.

HIST 573(S)  TOPICS IN EUROPEAN INTELLECTUAL HISTORY (3-0-
3)
Research seminar on selected themes and figures in modern European intellectual history. Not

HIST 575(F)  INTRODUCTION TO DOCTORAL STUDIES (4-0-4)
Introduction to a range of methodological and theoretical approaches to historical research, as
well as to important current debates about the nature of historical investigation and
interpretation. Discussion, short weekly essays, and one longer paper based on course readings
required. Instructor: Quillen

HIST 579(F)  TECHNOLOGIES OF NATIONALISM
Graduate version of HIST 429. Students may not receive credit for both HIST 429 and HIST 579. 
Instructor: Wolfe

HIST 582(S)  MAJOR ISSUES IN MODERN BRITISH AND
IMPERIAL HISTORY (4-0-4)
Open to all graduate students. Required for graduate students in British history. Instructor: 
Wiener

HIST 583(S)  SOUTHERN HISTORY (4-0-4)

HIST 584(F)  RESEARCH SEMINAR IN BRITISH HISTORY: 
TRIALS AS HISTORICAL SOURCES (4-0-4)
This seminar will explore a range of English trials spanning several centuries and various types of
contention—divorce, inheritance, libel, forgery, rape, and murder. The point will be not to decide
which party was right, or did the defendant do it, but to examine how trial records can be used to
illuminate their society—its politics, economics, social relations, and culture. It is meant to be ap-
licable to historical work in any time period and any county. Each participant will select one trial
of some significance, on which sufficient source material exists at Rice, and analyze it in depth. No
previous course work in British history is required. Not offered 2001–2002. Instructor: Wiener

(F) = fall; (S) =
HIST 587(F) GRADUATE READING SEMINAR IN U.S. INTELLECTUAL/CULTURAL HISTORY (4-0-4)
Intensive survey of the literature of cultural and intellectual history, with emphasis on 19th-century America. *Instructor: Haskell*

HIST 588(S) GRADUATE RESEARCH IN U.S. INTELLECTUAL/ CULTURAL HISTORY (4-0-4)

HIST 590(S) INTRODUCTION TO WORLD HISTORY (4-0-4)
This reading seminar will introduce graduate students to the rapidly growing field of world history. Because junior faculty often are asked to teach in a world history course, this course can be thought of as professional preparation. Highly qualified undergraduates admitted by permission of instructor. *Instructor: Stokes*

HIST 591–593 GRADUATE READING (1-0-1 each semester)
Graduate reading in conjunction with another course.

HIST 595(S) GRADUATE READING SEMINAR IN THE AMERICAN SOUTH (4-0-4)
Seminar on major scholarly literature of southern history. Includes readings, discussions, and a major paper on a historiographical topic decided in consultation with the instructor. *Instructor: Boles*

HIST 800(F) PH.D. RESEARCH (hours variable)
HIST 800(S) Research for doctoral dissertation.

Honors Courses (HONS)

HONS 470 RICE UNDERGRADUATE SCHOLARS PROGRAM—PROPOSAL DEVELOPMENT (2-0-3)
The RUSP is designed for juniors or seniors from any department who are considering graduate school and/or academic careers. Individual research projects form the program’s core. Research is pursued under the direction of a faculty member identified by the student. This faculty member serves as mentor and meets regularly with the student. The program provides modest funds to support the research. Weekly class meetings occur for discussion of relevant topics and for student presentations. The first semester carries 3 hours of credit and the second semester variable credit (generally 3–6 hours, depending on the project). An oral presentation and scholarly manuscript describing the research project conclude the course.
Humanities (HUMA)

The School of Humanities

HUMA 100  INTRODUCTION TO THE HUMANITIES: CONSTRUCTING WESTERN TRADITIONS  (3-0-3)
A one semester course combining selected readings from both HUMA 101 and HUMA 102. Enrollment is limited to 30. Instructor: Staff

HUMA 101(F)  INTRODUCTION TO HUMANITIES: CONSTRUCTING WESTERN TRADITIONS  (3-0-3)
Study of representative works in the Western tradition in literature, philosophy, and history, from Homer to Chaucer. Includes discussion sections. Instructor: TBA

HUMA 102(S)  INTRODUCTION TO HUMANITIES: CONSTRUCTING WESTERN TRADITIONS  (3-0-3)
Continued study, in discussion and occasional lectures, of representative works in the Western tradition, from Michelangelo to Martin Luther King. Instructor: TBA

HUMA 104(S)  SELF IN TEXT AND IMAGE  (3-0-3)
Exploration of representations of the self in Western culture from late antiquity to the present in film, autobiography, the novel, and visual portraits, as well as in the relationships among these genres. May include Columbus’s letters, Rousseau’s *Confessions*, John Singleton Copley’s portraits, Jane Austen’s *Emma*, and Freud’s *Dora*. Not offered 2001–2002. Instructors: Derrick, Joseph, Minter, Quillen

HUMA 105(F)  MYTH, HISTORY, AND THE PROBLEM OF THE PAST  (3-0-3)
Exploration of myth and history as two ways of interpreting the past that today evoke different responses: belief in history and pleasure in myth. Includes use of written texts and visual arts from classical antiquity and contemporary America, as well as cinema, to compare interpretive strategies. Also offered as HIST 205. Not offered 2001–2002. Instructors: Maas, Mackie

HUMA 107(S)  THE BIBLE IN WESTERN TRADITION  (3-0-3)
Explores multiple roles the Bible has played in Western culture. Emphasis will be on the Bible as catalyst in media history, as generator of the artistic imagination, and as author of ideas that shaped social history. Also offered as RELI 200. Instructor: Kelber

HUMA 108  ART IN CONTEXT: LATE MEDIEVAL AND RENAISSANCE CULTURE  (3-0-3)
This course will be concerned with Art, Architecture, and History of the late middle-ages and Rens. We will employ historical texts, literature, and illustrations of works of art, showing how historical documents and sources can illuminate the cultural context of art and architecture. Also offered as HART 240 and MDST 108. Instructors: Staff, Manca, Neagley

HUMA 109(S)  GREEK CIVILIZATION: FROM HOMER TO ALEXANDER THE GREAT  (3-0-3)
The artistic, political, scientific, and religious achievements of Greek civilization imprinted themselves on the Western world in such a way that all of Western history, literature, art, and thought up to the present has been fundamentally influenced by the Greeks. This course will survey the Greek achievement from Homer through the birth of democracy in Athens to the spread of Greek civilization by the conquests of Alexander the Great. No prerequisites. Cross-listed with CLAS 207 and HIST 207. Instructor: George

HUMA 113(F)  GOD, TIME, AND HISTORY  (3-0-3)
How is the passage of time given meaning, and what role—if any—is assigned to divinity in shaping the direction of events? Course explores various forms of recording and interpreting events, drawing from ancient Mesoptamia, Israel, and the Greco-Roman world—the cultures in which modern ideas of history began. Also offered as RELI 123 and HIST 113. Enrollment is limited. Instructors: Maas, Henze

(F) = fall; (S) = spring
HUMA 115(S)  PHILOSOPHERS LOOK AT RELIGION (3-0-3)
Inquiry into the ways in which selected Western and Asian philosophers have interpreted God, reality, the moral life, and religious experience. Plato, Augustine, Hume, and Kant will be compared with thinkers of the Vedic, Jain, Saukhya, and Buddhist traditions. Also offered as RELI 293. Instructor: Wyschogrod

HUMA 201  PUBLIC SPEAKING (3-0-3)
An introduction to the process of public speaking through the presentation of four or more in-class speeches. Prerequisite: permission of instructor. Instructors: Hescht, Huston, West

HUMA 212(F)  CAREER AND LIFE OPTIONS (1-0-1)
Designed to assist students in making college-major and career decisions. Exploration of interests and personality strengths through standardized tests, values, and abilities provide basis for exploring options. Follow-up research on specific careers and exercises in resume writing and interviewing. Instructor: Matherly

HUMA 235(F)  THE WORLD AND THE WEST (3-0-3)
This course aims first to provide an introduction to the last 500 years of world history, focusing on those processes that define the modern period, including industrialization, democratization, colonialism, and the emergence of new forms of cultural production. Second, we explore how and why such processes have come to divide the modern world into a “west” and “non-west.” Also offered as HIST 235. Instructors: Quillen, Makdisi

HUMA 295(F)  CURRENT ISSUES IN THE WORKPLACE (3-0-3)
Prerequisite: acceptance to Rice Joint Venture Program or permission of instructor. Preference given to humanities majors. Instructor: Matherly

HUMA 305(F)  ADVANCED PUBLIC SPEAKING (3-0-3)
Study of the ancient origins of speech theory. Includes the application of contemporary speech theory in four in-class speeches. Open to students with at least two years of course work or experience in public speaking. Prerequisite: permission of instructor. Instructor: West

HUMA 307(F)  ORAL INTERPRETATION/LITERATURE (3-0-3)
Comprehensive study of oral interpretation theory and techniques applied to the performance of dramatic literature, poetry, and prose. Instructor: Staff

HUMA 308(S)  BUSINESS AND PROFESSIONAL SPEAKING (3-0-3)
Practical application of communication theory, with emphasis on oral presentations, interviewing, and small group dynamics. Instructor: Staff

HUMA 309  ARGUMENTATION AND DEBATE (3-0-3)
Designed to help students develop their research and analytical abilities through the research, analysis, and presentation of arguments on questions of fact, value and policy. Debate assignments will explore current issues of the day. Instructor: West

HUMA 317(F)  CONSULTING WITH STUDENT WRITERS (1-0-1)
Study of the writing processes, writing problems, texts, and exercises in preparation for working with student writers. Includes role-playing. Meets for eight weeks. Instructor: Driskill

HUMA 318(S)  KOREAN LITERATURE AND CULTURE (3-0-3)
The course focuses on reading selected modern Korean literature and watching Korean films. Korean history, philosophy, and religion will be introduced as background information. Since the text and films will be translated into English, no previous knowledge of Korean is required. Also offered as ASIA 344 and KORE 344. Not offered 2001–2002. Instructor: Yang

HUMA 344(F)  THE DEATH OF THE EPIC (3-0-3)
A comparison of ancient and medieval topics. All works read in English translation. Also offered as CLAS 351. Instructor: Mackie.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
HUMA 370(S) DISCOURSE IN ALIENATION: FROM KAFKA TO THE HOLOCAUST (1910–1945) (3-0-3)
The sociopolitical and economic upheaval on the one hand and the religious and intellectual on the other, which mark this period, manifest themselves in literature between the poles of artistic experimentation (expressionism, Kafka, Musil) and a forced ideological stabilization (fascism); Holocaust literature reflects the ultimate clash between these principles. This course is open to all and will be taught in English. German majors may complete readings and papers in German. Also offered as GERM 381 and GMAN 321. Not offered 2001–2002. Instructor: Weissenberger

HUMA 371(S) SPECIAL TOPICS: MYTHS OF MODERN INDIVIDUALISM: FAUST AND DON JAUN (3-0-3)
The course will examine the relevance of myth for modern culture, using the figures of Faust and Don Juan as primary examples. Readings of a few major works (by Goethe, Mozart, Thomas Mann, and others) in translation; discussions in English. Emphasis also on representations in visual arts and music. Also offered as GMAN 351. Instructor: Winkler

HUMA 372 SPECIAL TOPIC: GERMAN FAIRY TALE—OLD AND NEW (3-0-3)
Discussion of several prototypes from the fairy-tale collection of the Brothers Grimm and the subsequent development of the “literary” fairy tale from Goethe and the romantics of the 20th century. Nonmajors read the texts in English. Also offered as GMAN 392 and GERM 392. Instructor: Weissenberger

HUMA 373(F) NEW GERMAN CINEMA (3-0-3)
From the 1960s to 2000, Germany has developed a very distinct auteur cinema with independent filmmakers such as Fassbinder, Herzog, Wenders, Adlon, Trotta Sander, Brueckner, Doerrie, Garmier, Tykwer, and others. The first 20 years of German film were oriented on coming to terms with the fascist past; the second 20 years focused on more contemporary issues. Film critical readings and class discussions in English. All films are subtitled in English and will be assessed with podium technology. Also offered as GERM 378 and WGST 361. Not offered 2001–2002. Instructor: Eifler

HUMA 376(F) SPECIAL TOPICS: YOUNG GOETHE: FROM LITERARY REVOLUTION TO WORLD LITERATURE (3-0-3)
In Germany in the 18th century, according to Walter Benjamin, revolutionaries were not enlightened and those who were enlightened were no revolutionaries. Goethe’s beginnings can be understood in this context. By reading selected biographical, theoretical and poetical writings, the course will reconstruct the development of young Goethe, which finally culminated in the success of Werther. In order to illuminate the theoretical background, readings include texts by Herder and Rousseau’s first discourse. This course will be taught in English. Also offered as GMAN 355. Instructor: Steiner

HUMA 380(F) CONTEMPORARY POLISH POLITICS AND CULTURE (3-0-3)
Highlights of Polish literature in the 20th century. Also offered as RUSS 320. Not offered 2001–2002. Instructor: Staff

HUMA 381(S) DOSTOEVSKY (3-0-3)
Study of the major works of Dostoevsky. No knowledge of Russian required. Novels and stories discussed include The Brothers Karamazov; Crime and Punishment; The Idiot; The Possessed; Notes from the Dead House; Notes from the Underground. Also offered as RUSS 352. Instructor: Thompson

HUMA 382(F) TOLSTOY (3-0-3)
Study of the major works of Tolstoy. No knowledge of Russian required. Novels and stories discussed include War and Peace; Anna Karenina; The Kreutzer Sonata; Family Happiness; The Cossacks; “The Devil;” “The Death of Ivan Ilyich;” “Father Sergius;” “The Confession” and “Hadji Murad.” Also offered as RUSS 351. Instructor: Thompson
HUMA 383(F)  CENTRAL AND EAST EUROPEAN FILM  (3-0-3)
Based on a selection of some of the best films by some of the best directors of the region (Forman, Holland, Kieslowski, Polanski, Szabo, Wajda), this course presents a panorama of Central-Eastern European filmmaking against a background of a totalitarian political system. Also offered as RUSS 412.  
*Instructor: Staff*

**Italian Language and Culture (ITAL)**

The School of Humanities/Department of French Studies

ITAL 101(F)  ELEMENTARY ITALIAN LANGUAGE AND CULTURE I  (3-2-5)
Concentration on all four language skills through classroom activities supplemented by work in the language lab. Includes the basic elements of Italian culture and civilization, an overview of current events and ideas, and a RAI (Radio Audizioni Italiane) video. Must complete ITAL 102 to receive credit for ITAL 101.  
*Instructor: Caflisch*

ITAL 102(S)  ELEMENTARY ITALIAN LANGUAGE AND CULTURE II  (3-2-5)
*Instructor: Caflisch*

ITAL 201(F)  INTERMEDIATE ITALIAN LANGUAGE AND CULTURE I  (3-0-3)
Review and consolidation of the structure of contemporary Italian, using literary and cultural readings as a basis for class discussion and conversation. Includes oral reports and compositions and a RAI (Radio Audizioni Italiane) video. Prerequisite: ITAL 102.  
*Instructor: Caflisch*

ITAL 202(S)  INTERMEDIATE ITALIAN LANGUAGE AND CULTURE II  (3-0-3)
Continuation of ITAL 201. *Crescendo*. Active practice of contemporary Italian; literary and cultural readings serve as a basis for class discussion and composition; includes a film by the Italian master Fellini. Prerequisite: ITAL 201 or placement exam. Extra work for ITAL 302 credit.  
*Instructor: Caflisch*

ITAL 301  MODERN ITALIAN LITERATURE I  (3-0-3)
*Instructor: Caflisch*

ITAL 302(S)  ADVANCED ITALIAN FOR WRITTEN AND ORAL COMMUNICATION  (3-0-3)
Active practice of composition, oral analysis, and discussion based upon the reading of texts; viewing of films on selected issues and problems in past and contemporary Italian society. *La Bottega del Racconto*. Prerequisite: ITAL 202 or placement exam. Repeatable.  
*Instructor: Caflisch*

ITAL 303  IMAGES OF ITALIAN CULTURE  (3-0-3)
*Instructor: Caflisch*
Japanese (JAPA)

The School of Humanities/Center for the Study of Languages

JAPA 101(F)  INTRODUCTION TO JAPANESE LANGUAGE AND CULTURE I (3-2-5)
Elementary Japanese emphasizes the learning of basic grammatical structures and vocabulary of modern Japanese to develop oral competence at the novice level. This goal is achieved primarily through aural-oral activities, and class is conducted almost exclusively in Japanese. The writing system, namely, *kana* and *kanji*, is taught with on-line technology throughout the semester to develop basic writing competence. Participation in a weekly tutorial and language lab is required. Enrollment limited to 20. *Instructor: Sato*

JAPA 102(S)  INTRODUCTION TO JAPANESE LANGUAGE AND CULTURE II (3-2-5)
Continuation of JAPA 101. Focus on establishing basic grammatical structures and increasing vocabulary of modern Japanese to develop oral competence and satisfy minimal communication skills. The goal of oral competence aims at the novice-high level. This goal is achieved primarily through aural-oral activities, and class is conducted almost exclusively in Japanese. Reading and writing *kanji* with on-line drill is required. Participation in a weekly tutorial and language lab is required. Enrollment limited to 20. *Instructor: Sato*

JAPA 201(F)  INTERMEDIATE JAPANESE LANGUAGE AND CULTURE I (3-2-5)
Continuation of elementary Japanese with further practice in conversation, grammar, reading, and composition. The goal of oral competence will aim at creating with the language for basic communication on daily activities. Developing skills of reading and writing *kanji* with on-line drill required. Class is conducted in Japanese. Participation in a weekly tutorial and language lab is required. Prerequisites: JAPA 101, 102, or equivalent. Enrollment limited to 15. *Instructor: Sato*

JAPA 202(S)  INTERMEDIATE JAPANESE LANGUAGE AND CULTURE II (3-2-5)
Continuation of JAPA 201 with further practice in conversation, grammar, reading and composition. The goal of oral competence aims at directing conversation with topics related to daily activities and personal environment. Developing skills of reading and writing *kanji* texts with on-line drill required. Participation in a weekly tutorial and language lab is required. Prerequisites: JAPA 101, 102, 201, or equivalent. Enrollment limited to 15. *Instructor: Sato*

JAPA 301(F)  ADVANCED JAPANESE READING AND COMPOSITION I (3-1-4)
Class will be conducted in Japanese. Students will read texts about Japanese culture, life in Japan, and social issues in comparison with the U.S. Active class participation in Japanese for discussions and writing in HTML format required for submission of assignments. *Instructor: Sato*

JAPA 302(S)  ADVANCED JAPANESE READING AND COMPOSITION II (3-1-4)
Continuation of JAPA 301. Class will be conducted in Japanese. Texts from various genres and excerpts from prominent literature, such as texts by Akutaga Ryunosuke and Natsume Sooseki, are introduced, as well as reading materials about Japanese culture, life in Japan, and social issues in comparison with the U.S. Active class participation in Japanese for discussions and writing compositions in HTML format for assignments required. *Instructor: Sato*

JAPA 398(F)  JAPANESE TEACHING PRACTICUM (hours variable)
JAPA 398(S)
Students will closely work with instructor to acquire teaching skills in tutoring in Japanese. Native proficiency is required. Prerequisite: Permission of instructor. *Instructor: Sato*
JAPA 498(F) INDEPENDENT STUDY (hours variable)
JAPA 499(S)
Content-based class in Japanese related to students’ major fields of study. Variety of topics, if not related to students’ practical needs and interests, will be discussed. Active participation in meetings with instructor required. Kyushu returnees are welcome for sustaining communication skills. Prerequisite: permission of instructor. Instructor: Sato

Kinesiology (KINE)

The School of Humanities/Department of Kinesiology

KINE 100(S) WRITING FOR PROFESSIONAL COMMUNICATION (3-0-3)
An intensive study of how to write for effective and successful professional communication. The course will focus on what distinguishes great prose from average prose, and how good writing contributes to career advancement in students’ targeted professions. Open to majors and nonmajors. Instructor: Eliot

KINE 120 FOUNDATIONS OF KINESIOLOGY (3-0-3)
An introduction to studies in the areas of human movement: anatomy and physiology, physiology of exercise, motor learning, biomechanics, sport history, sport psychology and sport management. Required for kinesiology majors. Instructor: Disch

KINE 205(F) SPORT SOCIOLOGY AND ETHICS (3-0-3)
This course examines the development of contemporary sport and its interrelationship with existing social institutions: educational, political and economic. Particular emphasis will be placed on solving ethical dilemmas that pertain to issues of race, gender, social class, violence and social deviance, capitalism, fame, religion, and moral value. Students will be expected to participate in the seminar by raising and supporting critical arguments. Instructor: Eliot

KINE 206 FIRST AID/EMERGENCY CARE/CPR (1-1-1)
The American Red Cross certification program for emergency care procedures for illness, traumatic injuries and cardiopulmonary resuscitation. Restricted enrollment to kinesiology majors only. Enrollment is limited to 25. Also offered as HEAL 206. Restricted enrollment to KINE majors only. Instructor: Vandenberg

KINE 250(S) HUMAN ANATOMY (3-0-3)
Introduction to human anatomy including basic concepts of function. Prerequisite: KINE 120 or permission of instructor. Instructor: Spence

KINE 260(F) INTRODUCTION TO SPORT MANAGEMENT (3-0-3)
An overview of the business of sport, including management theory and practice related to the professional and amateur sports and recreation industries. Instructor: Dixon

KINE 301(F) HUMAN PHYSIOLOGY (3-0-3)
Fundamental principles of human physiology at the molecular, cellular, tissue, organ, and organism level. Emphasis will be placed on mechanisms of function and homeostasis as achieved through the coordinated function of homeostatic control systems. Prerequisites: CHEM 121, KINE 120 or permission of instructor. Instructor: Gibson

KINE 302(S) BIOMECHANICS (3-0-3)
This course examines human movement by integrating anatomy with mechanics. Substantial emphasis will be placed on musculoskeletal anatomy and levers. Movement tasks will include normal ambulation, rehabilitative movements, as well as advanced sport and exercise skills. Prerequisites: PHYS 125, KINE 120 and KINE 250 or permission of instructor. Instructor: Gibson

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
KINE 310(S) PERFORMANCE PSYCHOLOGY (3-0-3)
This course is an interdisciplinary, applied exploration of how the mind influences performance in sport, medicine, business, music and the arts. Students will use real-world performance pursuits as a laboratory for understanding the principles of success and testing theories on the psychology of excellence. Lectures, discussion groups, and field experiences will be included. Non-kinesiology majors are strongly encouraged to enroll. Prerequisites: at least sophomore standing, and PSYC 101 or permission of the instructor. Instructor: Eliot

KINE 311(F) MOTOR LEARNING (3-0-3)
Physiological, neurological and psychological factors affecting voluntary skill acquisition and development. Corequisite: KINE 325. Instructor: Etnyre

KINE 319(F) MEASUREMENT AND STATISTICS IN KINESIOLOGY (3-0-3)
Introduction to descriptive and inferential statistics and classical measurement theory in kinesiology. Prerequisites: KINE 120, STAT 280 or permission of instructor. Instructor: Disch

KINE 321(S) EXERCISE PHYSIOLOGY (3-0-3)
This course examines the acute and chronic effects of exercise on physiological function. Topics include nutrition, energy transfer, fatigue, metabolism, disease, aging, preventative medicine, genetics, elite performance, ergogenic aids, exercise testing, and specificity of training. Prerequisites: KINE 120 and KINE 250 or permission of instructor. Instructor: Gibson

KINE 323(S) EXERCISE PHYSIOLOGY LABORATORY (0-2-1)
This course introduces a wide variety of physiological and health-related testing with an emphasis on research techniques in exercise physiology. Experiences include examination of diet, general fitness testing, mechanisms of fatigue, graded exercise stress testing, oxygen utilization, movement efficiency, body composition, myocardial work, and spectrophotometric analysis. Prerequisite: concurrent or previous enrollment in KINE 321. Instructor: Gibson

KINE 325(F) MOTOR LEARNING LAB (0-2-1)
This course includes the measurement of physiological, neurological and psychological factors affecting voluntary skill acquisition and development. Prerequisite: concurrent enrollment in KINE 311. Instructor: Etnyre

KINE 326(F) TRAINING ROOM PROCEDURES (0-3-1)
Field application in prevention, management and rehabilitation of athletic injuries. Instructor: Eggert

KINE 341(F) SPORTS MEDICINE AND TRAINING (3-0-3)
Considers athletic injury and disorders affecting athletes; mechanism of injury, assessment procedures, injury management, treatment modalities, and therapeutic exercise. Prerequisite: KINE 250 or permission of instructor. Instructor: Spence

KINE 360(F) SPORT AND FACILITY FINANCE (3-0-3)
Acquisition and expenditure of financial resources for sports enterprise and sports facilities from private, public, and external sources. Prerequisite: KINE 260 or permission of instructor. Instructor: Dixon

KINE 362(S) SPORT MARKETING AND PROMOTION (3-0-3)
This course examines, in depth, the role of communication media in sports, particularly the interrelationships between athlete, owner, and consumer. Television, radio, news, and print media will be considered, along with advertising theory, and sport product consumerism. Prerequisite: KINE 260. Instructor: Dixon

KINE 364(S) SPORT LAW (3-0-3)
Study of general legal principles and their particular application within the sports industry. Emphasis is on contract, tort, antitrust, and labor law. Study of antitrust and labor law principles and their particular application to collective bargaining procedures within the sports industry will also be considered. Prerequisite: KINE 364. Instructor: Dixon

(F) = fall; (S) = spring
KINE 375  SPORTS MEDICINE INTERNSHIP (0-0-3)
Practical experience for upper-level students majoring in sport medicine. Prerequisites: junior or senior standing, and approval of a written proposal by the Kinesiology Program Development Committee. Instructors: Gibson, Spence

KINE 376  SPORT MANAGEMENT INTERNSHIP I (hours variable)
Practical experience for upper-level students majoring in sport management. Prerequisites: KINE 260, junior or senior standing, and approval of a written proposal by the Kinesiology Program Development Committee. Instructor: Staff

KINE 377  SPORT MANAGEMENT INTERNSHIP II (hours variable)
Continued practical experience for upper-level students majoring in sport management—either as a two part, consecutive semester internship, or as a single-semester, greater than 3.0 credit hour experience. This course is intended for students wishing to move from a bachelor’s degree directly into a professional or collegiate athletics sport management career. Prerequisites: KINE 260 and 376, junior or senior standing, and approval of a written proposal by the Kinesiology Program Development Committee. Instructor: Staff

KINE 410(F)  CASE STUDIES IN PERFORMANCE ENHANCEMENT (3-0-3)
This course will focus on how to use the case study methodology for learning problem solving skills within the field of kinesiology. Emphasis will be placed on bringing together theories from many different disciplines in consideration of human performance as a synergistic concept. Prerequisites: KINE 120 and KINE 310, or permission of the instructor, preference given to seniors. Instructor: Eliot

KINE 412(S)  MOTOR CONTROL (3-0-3)
Exploration of neurophysiological, behavioral and biomechanical aspects of motor control. Instructor: Etnyre

KINE 421(F)  ADVANCED TOPICS IN EXERCISE PHYSIOLOGY AND PREVENTATIVE MEDICINE (3-0-3)
Designed to integrate advanced topics in exercise physiology/biochemistry with preventative medicine by addressing current health-related concerns in the United States and elsewhere. A significant part of the class will focus on research articles and critical reading. Prerequisites: KINE 321 and KINE 323. Instructor: Gibson

KINE 440(S)  RESEARCH METHODS (3-0-3)
Designed to introduce students to research methods and topics appropriate for sport management, sports medicine, and health science research. Instructor: Disch

KINE 441(F)  MUSCLE PHYSIOLOGY AND PLASTICITY (3-0-3)
This course will specifically address cardiac and skeletal muscle physiology and plasticity when introduced to various stimuli. These stimuli include exercise, electrical stimulation, hormones, aging, injury, altitude, microgravity, heat, and pharmacological agents. An emphasis will be placed on practical application to health, disease, and performance enhancement. Prerequisites: KINE 321 and KINE 323. Not offered 2001–2002. Instructor: Gibson

KINE 466(S)  SPORT MEDIA (3-0-3)
A study of popular media in sport with emphases on building and managing an effective media relations and athlete-media interaction. Additionally, this course will consider: news releases, contest management, press conferences, statistics, media publications and journalism, television contracts, and sports commenting. Prerequisites: KINE 260 or permission of instructor. Instructor: Staff

KINE 490  SEMINAR IN SPORTS MEDICINE (3-0-3)
Considers issues related to athletic injury including mechanisms, assessment, management, and rehabilitation. Prerequisites: KINE 250 and KINE 341. Limited enrollment both semesters. Instructor: Spence

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
KINE 495/496 INDEPENDENT STUDY (hours variable)
For junior and senior students only. Prerequisite: permission of advising faculty and program development committee. Instructor: Etnyre

KINE 498 SPECIAL TOPICS IN KINESIOLOGY (hours variable)
Individualized directed study in kinesiology.

KINE 498(F) SPECIAL TOPICS IN HUMAN PERFORMANCE (hours variable)
SECTION 2: VIDEO CONFERENCING SEMINAR WITH DARTMOUTH (3-0-3)
A hands on experiment in inter-university learning. Students at Rice will explore issues related to the psychology of excellence by interacting with students at Dartmouth College, a half a continent away and likely from a very different ‘university culture’. Enrollment is limited. Prerequisite: permission of the instructor. Instructor: Eliot

KINE 499 TEACHING PRACTICUM (hours variable)
Advanced teaching experience for upper level students who have demonstrated particular aptitude and interest in one area of kinesiology. Students will assist in conducting a course in which they have previously excelled. The student will learn techniques in course management, instruction, and evaluation. Prerequisites: junior or senior standing, declared major in kinesiology, and at least a A- in the course serving as the practicum. Instructor: Etnyre

Korean (KORE)
The School of Humanities/Center for the Study of Languages

KORE 101(F) INTRODUCTION TO KOREAN LANGUAGE AND CULTURE I (3-2-5)
Introduction to Korean language and culture. Acquisition of the fundamentals of the four language skills. The Korean alphabet is introduced from the first day and used throughout the course. Instructor: Yang

KORE 102(S) INTRODUCTION TO KOREAN LANGUAGE AND CULTURE II (3-2-5)
Continuation of KORE 101. This course concentrates on strengthening the four language skills and introduces some more elements of Korean culture. Instructor: Yang

KORE 201(F) INTERMEDIATE KOREAN LANGUAGE AND CULTURE I (3-1-4)
Continuation of the development of speaking, listening, reading, and writing skills. Instructor: Yang

KORE 202(S) INTERMEDIATE KOREAN LANGUAGE AND CULTURE II (3-1-4)
Emphasizes developing further the four language skills and focuses on systematic conversation and composition. Composition papers required during the semester. Prerequisite: KORE 201 or equivalent. Instructor: Yang

KORE 301(F) ADVANCED KOREAN LANGUAGE AND CULTURE I (3-0-3)
Emphasizes advanced reading and conversational skills. To improve listening comprehension, students will watch Korean films and drama without captions. Three composition papers are required during the semester. Prerequisite: KORE 201/202 or permission of instructor. Relatively good listening and reading skills required. Not offered 2001–2002. Instructor: Yang

(F) = fall; (S) =
KORE 302(S)  ADVANCED KOREAN LANGUAGE AND CULTURE II (3-0-3)
Continuation of KORE 301. There is a continuous development of advanced reading, speaking, listening, and writing skills. At the completion of this course, students should be able to converse at an advanced level. The class is conducted in Korean only. Not offered 2001–2002. Instructor: Yang

KORE 344(F)  KOREAN LITERATURE AND CULTURE (3-0-3)
Exploration of selections from modern Korean literature and watching of Korean films. Includes background survey of Korean history, philosophy, and religion. All texts and films in English translation. No previous knowledge of Korean required. Also offered as ASIA 344 and HUMA 344. Not offered 2001–2002. Instructor: Yang

KORE 345(S)  ORIGIN AND DEVELOPMENT OF KOREAN AND RELATED LANGUAGES IN EAST ASIA (3-0-3)
Focuses on the origin of Korean and related languages. An exploration of the way the Korean language evolved and interacted with other East Asian languages, including Chinese and Japanese. Exploration of the sociopolitical background of Korea when the Korean alphabet was invented as well as the sociolinguistic aspect of Korean and other East Asian languages. This will include, for example, the difference in male and female language usage and the honorific system. This class will be conducted in English; no previous knowledge of Korean is required. Also offered as ASIA 345 and LING 345. Not offered 2001–2002. Instructor: Yang

KORE 345(S)  LINGUISTIC STRUCTURE OF KOREAN (3-0-3)

KORE 346(S)  KOREAN CULTURE AND HISTORY (3-0-3)
Lecture, three-hour class. Knowledge of Korean not required. Korean culture evolved, in the span of nearly five millennia, into a uniquely artistic, politically resilient, and socio-economically dynamic existence in today’s global economy. This course aims to introduce students to the important elements of Korean cultural traditions and of Korean history. One goal of this course is to teach students to identify the salient patterns of cultural construction in the major aspects of history, religion, thoughts and beliefs, family/marriage, and literary works. Films (including videos) are used in conjunction with lectures and class discussions to provide students a better understanding of the basics of Korean culture and history. Class will concentrate more on modern than traditional times. Also offered as AISA 346. Instructor: Yang

Latin (LATI)
The School of Humanities/Department of Hispanic and Classical Studies

LATI 101(F)  ELEMENTARY LATIN I (3-0-3)
Study of the fundamentals of Latin grammar, with emphasis on the acquisition of reading skills. Must complete LATI 102 to receive distribution credit for LATI 101. Also offered as MDST 101. Instructor: McGill

LATI 102(S)  ELEMENTARY LATIN II (3-0-3)
Continuation of LATI 101. Also offered as MDST 102. Instructor: Wallace

LATI 201(F)  INTERMEDIATE LATIN I (3-0-3)
Review of grammar and readings in Latin prose. Prerequisite: Latin 101 or equivalent. Also offered as MDST 211. Instructor: Wallace

LATI 202(S)  INTERMEDIATE LATIN II (3-0-3)
Readings in Vergil’s Aeneid. Also offered as MDST 212. Instructor: Wallace

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
LATI 301(F)  ADVANCED LATIN: APULEIUS AND PETRONIUS (3-0-3)
Focus is on the Roman novel. An investigation of Petronius’ *Satyricon* and Apuleius’ *The Golden Ass*, focusing on a close reading of the *Cena* and *Cupid* and *Psyche* episodes but with additional readings in translation. Topics include the problem of genre, decadence and satire, allegory and the reception of the novel, and the presentation of Roman sexuality. The course will focus especially on the reflection and manipulation of Roman oral traditions and folklore. Not offered 2001–2002. *Instructor: Staff*

LATI 302(F)  ADVANCED LATIN: HORACE (3-0-3)
Readings from Horace. *Instructor: McGill*

LATI 310(S)  ADVANCED LATIN: VIRGIL (3-0-3)
Not offered 2001–2002. *Instructor: Staff*

LATI 312(F)  ADVANCED LATIN: OVID (3-0-3)
Study of Ovid's poetry both elegiac (*Amores I*) and epic (selections from *Metamorphoses*). Not offered 2001–2002. *Instructor: Wallace*

LATI 313(S)  ADVANCED LATIN: LITERATURE AND SOCIETY IN THE LATIN REPUBLIC: CATULLUS AND CICERO (3-0-3)
We will read Cicero’s Pro Caelio and several of Catullus’ longer poems as a vehicle for understanding politics and culture in the late Roman Republic. *Instructor: Yunis*

LATI 491(F)  DIRECTED READING (3-0-3 each semester)
LATI 492(S)  DIRECTED READING (3-0-3 each semester)
Independent work for qualified juniors and seniors in genres or authors not presented in other upper-level courses. *Instructor: Staff*

LATI 493(S)  COMPREHENSIVE EXAMINATION (3-0-3)
Reading course taken by all classics and Latin majors in the spring semester of their senior year in preparation for the comprehensive examination given the last week of the semester. Open to classics and Latin majors only. *Instructor: Staff*

**Linguistics (LING)**

The School of Humanities

LING 110(F)  LANGUAGES OF THE WORLD (3-0-3)
Survey of the world’s languages: what are they, where are they, how are they? With emphasis on their diversity. Selected languages will be examined in more detail. Not offered 2001–2002. *Instructor: Staff*

LING 200  INTRODUCTION TO THE SCIENTIFIC STUDY OF LANGUAGE (3-0-3)
Introduction to concepts and terminology in the scientific study of language. Includes sound systems (phonology), construction of words (morphology), organization of words in the sentence (syntax), meaning (semantics), and information flow (pragmatics), as well as a survey of interdisciplinary uses of linguistics such as historical linguistics (archaeology), dialectology (sociology), and language acquisition (psychology, cognitive sciences, and language teaching). Also offered as ANTH 200. *Instructors: Englebretson, Niedzielski*

LING 205(S)  LANGUAGE AND SOCIETY (3-0-3)
This course treats language as a social phenomenon to show how language, personal identity, and institutions of social control interrelate. The course focuses on linguistic interaction in daily life and how gender, ethnic, class, activity, and geographic variation affect language use. *Instructor: Niedzielski*
LING 215(S)   WORDS IN ENGLISH: STRUCTURE, HISTORY, USE (3-0-3)
Introduction to the study of English words, focusing on their internal structure and the nature and history of English vocabulary. Aims are to enhance knowledge of the rich lexical resources of the language and to facilitate the acquisition of scientific, technical, legal, and humanistic vocabulary. No previous linguistics background required. Also offered as ENGL 215. Not offered 2001–2002. Instructor: Kemmer

LING 300(S)   LINGUISTIC ANALYSIS (3-0-3)
Language as an object of scientific analysis, focused on how different languages organize semantic and pragmatic information into simple sentences. Topics: morphology, syntactic categories and constituency, propositional semantics, tense-aspect-modalitv, pragmatic information status, grammatical relations, and voice systems. Prerequisite: LING 200 or permission of instructor. Also offered as ANTH 300. Instructor: Kemmer

LING 301(F)   PHONETICS (3-0-3)
Introductory study of sound as it relates to speech and sound systems in the world’s languages. Speech sounds are examined in terms of production mechanisms (articulatory phonetics), propagation mechanisms (acoustic phonetics), and perception mechanisms (auditory phonetics). Includes a basic introduction to Digital Signal Processing. Prerequisite: LING 200 or permission of instructor. Not offered 2001–2002. Instructor: Niedzielski

LING 305(F)   HISTORICAL LINGUISTICS (3-0-3)
Exploration of the nature of language change in its phonological, morphological, syntactic, semantic, and sociocultural aspects, using the perspective of language acquisition. Includes techniques of internal and comparative reconstruction of proto-languages. Prerequisites: LING 200, 300, or 301 or permission of instructor. Also offered as ANTH 305. Not offered 2001–2002. Instructor: Staff

LING 306(F)   LANGUAGE AND THE MIND
Study of language as a cognitive system. Linguistic data as evidence for the cognitive structures and processes that enable people to learn and use language; how linguistic structure influences concept formation and patterns of thinking. Prerequisite: LING 200 or 300 or permission of instructor. Also offered as LING 506. Instructor: Staff

LING 309   PSYCHOLOGY OF LANGUAGE (3-0-3)
Human and other animal communication, structure of human language, word meaning and semantic memory, psychological studies of syntax, bilingualism, language and thought, language errors and disorders. Prerequisites: PSYC 101, 203, or permission of instructor. Enrollment limited to 50. Also offered as PSYC 309. Not offered 2001–2002.

LING 311(F)   PHONOLOGY (3-0-3)
Introduction to sound patterns in the languages of the world and to interpretation of these patterns in four theoretical traditions: distribution of holistic segments (phonemic theory), process-oriented feature models (generative and autosegmental models), constraint-based models (optimality theory), and cognitive approaches (natural generative phonology and cognitive phonology). Prerequisite: LING 200 or LING 301 or permission of the instructor. Instructor: Niedzielski

LING 312   OLD ENGLISH (3-0-3)
Also offered as ENGL 324. Prerequisite: permission of instructor. Also offered as MDST 311. Not offered 2001–2002. Instructor: Mitchell

LING 313(F)   LANGUAGE AND CULTURE (3-0-3)
Investigates the relation between language and thought, language and worldview, and language and logic. Also offered as ANTH 313. Instructor: Tyler
LING 315(S)  SEMANTICS: INTRODUCTION TO THE STUDY OF MEANING (3-0-3)
Basic approaches to the study of meaning in linguistics and related fields. Includes the cognitive representation of meaning, lexical categorization, conceptual structures, metaphor/metonymy, meaning change, pragmatic inference, and the relation of language and mind. Prerequisite: LING 200 or permission of instructor. Also offered as PSYC 315. Not offered 2001–2002.  Instructor: Kemmer

LING 317(S)  LANGUAGE AND COMPUTERS (3-0-3)
Introduction to the relation of computers and natural language. Includes exercises in programming computers to exhibit language-like behavior and using computers to analyze language, as well as an overview of different aspects of computational linguistics (e.g., speech recognition, syntactic parsing, semantic representation, and neural net models) and of the use of corpora and concordance programs to discover syntactic and semantic patterns of English. No programming experience required.  Instructor: Barlow

LING 318(S)  STRUCTURE OF FRENCH (3-0-3)
The primary objective of this course is to present contemporary French as a dynamic linguistic system shaped by historical, cognitive, and sociological developments. The historical section presents the diachronic evolution of French as a crucial factor in the current use of the “standard” and regional dialects. The linguistic section analyzes the language as a system of mental representation and presents the tools necessary to describe that system. Linguistic forms are shown to be motivated by cognitive principles, which are identified and carefully examined. The last part of the course is devoted to the socioeconomic conditions that preside over language use. Beyond the specific consideration of French, this course is concerned with the historical, psychological, and sociological dimensions that enter into the description of any language. Also offered as FREN 318. Not offered 2001–2002.  Instructor: Achard

LING 330(F)  CORPUS LINGUISTICS (3-0-3)
Investigation of the nature of linguistic representations from corpus-based analyses as compared to more traditional methodologies. Includes the collection of individual text data (or the exploration of existing text sources), the use of various text analysis programs (e.g., concordance software), and the production of lexical, syntactic, semantic, discourse, or cultural analyses of selected texts, using computer-based methods. Not offered 2001–2002.  Instructor: Barlow

LING 340(S)  THEORY AND METHODS OF TEACHING ESL (3-0-3)
Introduction to the theory and practice of teaching a second language. Includes the process of language learning viewed from social, psychological, and linguistic perspectives, as well as commonly used teaching “methods,” such as the audiolingual method, situational language teaching, the natural approach, and TPR, among others. Required for linguistics majors in second language acquisition concentration. Not offered 2001–2002.  Instructor: Barlow

LING 345(S)  ORIGIN AND DEVELOPMENT OF KOREAN AND RELATED LANGUAGES IN EAST ASIA (3-0-3)
This course focuses on the origin of Korean and related languages. It explores the way the Korean language evolved and interacted with other East Asian languages, including Chinese and Japanese. The sociolinguistic aspect of these languages will be studied, including the difference in male and female language usage and the honorific systems. This class will be conducted in English. No previous knowledge of Korean is required. Also offered as ASIA 345.  Instructor: Yang

LING 346(S)  HISTORY OF THE CHINESE LANGUAGE (3-0-3)
This course investigates major developments in the history of Chinese, emphasizing structural changes from Archaic to Modern Chinese. We will examine patterns of thought and cultural perceptions as reflected in vocabulary change. Introduction to sound changes in Chinese and the evolution of the writing system. Students are required to have a basic knowledge of Chinese or to have taken an introductory linguistics course. Also offered as CHIN 346.  Instructor: Mitchell

LING 351(F)  INTRODUCTION TO SANSKRIT I (3-0-3)
Also offered as SANS 301.  Instructor: Mitchell
LING 352(S)  INTRODUCTION TO SANSKRIT II (3-0-3)
Also offered as SANS 302. Instructor: Mitchell

LING 353(S)  THE PHILOSOPHY OF LANGUAGE (3-0-3)
Instructor: Margolis

LING 373(F)  THE LINGUISTIC TURN: NARRATION AND MODERNITY (3-0-3)
This course will look at the role of narration and the construction of some of the basic forms of modernity and postmodernity, ranging from nationalism to performative approaches to identity. The first half of the course will introduce the basic linguistic tools necessary to analyze a variety of cultural materials, and the second half will be devoted to analyzing specific texts and student presentations. The course does not presuppose any technical training in linguistic or literary analysis. Also offered as ANTH 373. Instructor: Lee

LING 394(S)  STRUCTURE OF THE ENGLISH LANGUAGE (3-0-3)
Introduction to modern English grammar, phonology, and semantics. Required for linguistics majors in second language acquisition concentration. Also offered as ENGL 394. Instructor: Shibatani

LING 395(F)  HISTORY OF THE ENGLISH LANGUAGE (3-0-3)
Survey of 6,000 years of language history. Includes the phonological, morphological, syntactic, and semantic history of the English language from its Indo-European origins, through the Anglo-Saxon and Middle English periods, and up to the present day. Also offered as ENGL 395 and MDST 395. Instructor: Mitchell

LING 402(S)  SYNTAX AND SEMANTICS (3-0-3)
Study of semantic categories and their formal expression in morphological, syntactic, and lexical units and patterns. Required for linguistics majors. Also offered as ANTH 402. Instructor: Davis

LING 403  MODERN LINGUISTIC THEORY (3-0-3)

LING 405(F)  TOPICS IN LANGUAGE CHANGE (3-0-3)
Survey of the current research on the nature of diachronic processes and their implications for linguistic theory. May include diachronic typology, issues in genetic classification, grammaticalization, syntactic change, and analogical change. Content varies from year to year. May be repeated for credit. Prerequisite: LING 305 (or equivalent). Instructor: Kemmer

LING 406(S)  COGNITIVE STUDIES IN ANTHROPOLOGY AND LINGUISTICS (3-0-3)
Relations between thought, language, and culture. Special emphasis given to natural systems of classification and their underlying logical principles. Also offered as ANTH 406. Instructor: Tyler

LING 407(F)  FIELD TECHNIQUES AND ANALYSIS (3-0-3)
Study of techniques and practice in the observation, analysis, and recording of a human language. Limited enrollment. LING 300, 301, and 402 recommended. Prerequisite: permission of instructor. Also offered as ANTH 407. Instructor: Davis

LING 408(S)  FIELD TECHNIQUES AND ANALYSIS (3-0-3)
Continuation of LING 407. Prerequisite: permission of instructor. Also offered as ANTH 408. Instructor: Davis

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
LING 409(F)  SPECIAL TOPICS (3-0-3)
Content varies from year to year. Topic for fall 2000: Current Approaches to Linguistic Theories. May be repeated for credit. Prerequisite: LING 300 or permission of instructor. Not offered every year.  *Instructor: Englebretson*

LING 410(F)  RHETORIC (3-0-3)
Overview of classical theories of rhetoric. Includes intensive discussion of contemporary theories and applications in a wide variety of disciplines. Also offered as ANTH 412.  *Instructor: Tyler*

LING 411(S)  NEUROLINGUISTICS (3-0-3)
Study of language and the brain. Includes the organization of the brain (e.g., the localization of speech, language, and memory functions), hemispheric dominance, and the pathologies of speech and language associated with brain damage. Also offered as ANTH 411.  *Instructor: Lamb*

LING 412(F)  LANGUAGE AND INTELLIGENCE (3-0-3)
Study of the primary basis of language in human intelligence. Includes exploration of conclusions from ethology, comparative psychology, and the study of learning and memory.  *Instructor: Davis*

LING 413(S)  FORMAL THEORIES OF SYNTAX (3-0-3)
Survey of current formal theories of syntax. Includes government and binding theory, lexical functional grammar, head-driven phrase structure grammar, and categorical grammar.  *Instructor: Barlow*

LING 414  HERMENEUTICS AND LINGUISTIC ANTHROPOLOGY (3-0-3)

LING 415(S)  SOCIOLINGUISTICS (3-0-3)
Topic: Issues of language and gender, race and class. The course will begin with an overview of contemporary sociolinguistic theory and methodologies. We will then examine the linguistic consequences to speakers of their membership in groups, defined in terms of gender, race, and class. Also offered as WGST 415. Not offered 2001–2002.  *Instructor: Niedzielski*

LING 416(F)  LANGUAGE UNIVERSALS AND TYPOLOGY (3-0-3)
Investigation of what human languages have in common and a range of ways in which they can differ. Includes marking patterns in particular linguistic domains (e.g., case marking, animacy, and passives) and theoretical and methodological issues.  *Instructor: Kemmer*

LING 417  COMPUTER-ASSISTED LANGUAGE INSTRUCTION (3-0-3)
Exploration of the theory and practice of using computers and other technologies in the language classroom. Includes language software, authoring systems, hypertext, e-mail, video, videodisc, and CD-ROM, as well as a survey of the ways that technology can be used in language teaching and various aspects of courseware development. Required for linguistics majors in second language acquisition concentration. Not offered 2001–2002.  *Instructor: Barlow*

LING 423(F)  LINGUISTIC STRUCTURE OF SPANISH (3-0-3)
Synchronic study of modern Spanish phonology and syntax, with emphasis on Hispanic American variants. Open to graduate students for credit. Also offered as SPAN 423, 424. Not offered 2001–2002.  *Instructor: Salaberry*
LING 424(S)  STUDIES IN HISPANIC LINGUISTICS (3-0-3)
Topic varies from year to year. This year's topic, The Evolution of Spanish, surveys the historical development of dialectal differences in Spanish, the factors that affect the formation of dialects (geography, social class, gender, etc.), prescriptive versus descriptive accounts of Spanish, and the future of Spanish as a world language. Also offered as SPAN 315/316. Not offered 2001–2002. Instructor: Salaberry

LING 425  DISCOURSE, SEMANTICS, AND PRAGMATICS (3-0-3)
Investigation of the relationship between the interpretation of utterances (e.g., semantics) and the context in which they are used (e.g., pragmatics) by examining how the intentions of the speaker/writer, as interpreted by the hearer/reader, influence the meaning assigned to an utterance. Includes contributions of both socially and linguistically defined contexts to discourse. Not offered 2001–2002. Instructor: Staff

LING 433  LINGUISTIC STRUCTURE OF GERMAN (3-0-3)
Synchronic study of modern German phonology, syntax, and semantics. Includes aspects of discourse structure. Also offered as GERM 433. Not offered 2001–2002. Instructor: Staff

LING 434  HISTORY OF THE GERMAN LANGUAGE (3-0-3)
Survey of aspects of the history of German phonology, syntax, and semantics (with related systems) from its proto-Indo-European origins to the present. Also offered as GERM 434. Not offered 2001–2002. Instructor: Staff

LING 435  TOPICS IN GERMANIC LINGUISTICS: OLD ICELANDIC (3-0-3)

LING 436  TOPICS IN SLAVIC LINGUISTICS (3-0-3)

LING 437  A HISTORY OF LINGUISTICS (3-0-3)
Survey of linguistic theories from the book of “Genesis,” the Pre-Socratics, Plato, Aristotle, the Alexandrians, the Stoics, the Modistae, the German Romantics, and the neo-grammarians down to de Saussure. Not offered 2001–2002. Instructor: Mitchell

LING 451(F)  ADVANCED SANSKRIT I (3-0-3)
Review of the nominal declensions and the classes of verbs to be followed by a series of readings from Lanman. Special attention will be given to the study of compounds and to Sanskrit verse forms. Instructor: Mitchell

LING 452(S)  ADVANCED SANSKRIT II (3-0-3)
Continuation of LING 451. Also offered as SANS 402. Instructor: Mitchell

LING 467  COMPUTATIONAL PROJECTS (3-0-3)

LING 470  LANGUAGE DESCRIPTION (3-0-3)
Study of the theory and practice of describing linguistic systems. Includes various notation systems and their relative advantages and disadvantages, types of information that should be included in a language description and ways of organizing it, computational techniques for testing descriptions, and devices to allow modification and expansion of the linguistic system in the course of its use. Not offered 2001–2002.
LING 481  INDEPENDENT STUDY (3-0-3)

LING 482  HONORS PROJECT (3-0-3)
Independent directed research toward preparation of an undergraduate honors project or thesis. Prerequisite: permission of instructor.

LING 490(F)  DISCOURSE ANALYSIS (3-0-3)
Examination of linguistic, social, and cultural constraints on the structure and interpretation of discourse. Instructor: Englebretson

LING 500(S)  LINGUISTIC ANALYSIS (3-0-3)
Graduate version of LING 300. Instructor: Englebretson

LING 501(F)  PHONETICS (3-0-3)

LING 502(S)  SYNTAX AND SEMANTICS (3-0-3)
Graduate version of LING 402. Instructor: Davis

LING 503  MODERN LINGUISTIC THEORY (3-0-3)

LING 504(F)  TOPICS IN LANGUAGE CHANGE (3-0-3)
Graduate version of LING 405. Instructor: Kemmer

LING 505  HISTORICAL LINGUISTICS (3-0-3)
Graduate version of LING 305. Not offered 2001–2002. Instructor: Staff

LING 506(F)  LANGUAGE AND THE MIND (3-0-3)
Graduate version of LING 306. Instructor: Lamb

LING 507(F)  FIELD TECHNIQUES AND ANALYSIS
Graduate version of LING 407. Instructor: Davis

LING 508(S)  FIELD TECHNIQUES AND ANALYSIS
Continuation of LING 507. Instructor: Davis

LING 511(F)  PHONOLOGY (3-0-3)
Graduate version of LING 311. Instructor: Staff

LING 515(S)  SEMANTICS: INTRODUCTION TO THE STUDY OF MEANING (3-0-3)

LING 517(S)  LANGUAGE AND COMPUTERS (3-0-3)
Graduate version of LING 317. Instructor: Barlow

LING 530(F)  CORPUS LINGUISTICS (3-0-3)

LING 540(S)  THEORY AND METHODS OF TEACHING ESL (3-0-3)

LING 550  DEPARTMENTAL COLLOQUIUM (1-0-1)
Weekly colloquium for faculty, graduate students, and invited guests to present reports on current research or to discuss current issues in linguistics. Instructor: Staff

(F) = fall; (S) =
LING 551  SEMINAR IN LINGUISTIC THEORY (3-0-3)
Topics vary from year to year. Not offered 2001–2002. **Instructor: Staff**

LING 552(S)  SEMINAR IN SYNTAX AND SEMANTICS (3-0-3)
Topic for spring 2002: Voice. **Instructor: Shibatan**

LING 553(S)  SEMINAR IN LINGUISTIC STRUCTURE (3-0-3)
Not offered 2001–2002. **Instructor: Staff**

LING 554(S)  SEMINAR IN SEMANTIC THEORY (3-0-3)
Continuation of LING 315/515, comprising advanced lexical semantic description and the semantics of grammatical constructions. Theoretical and descriptive constructs from cognitive grammar, construction grammar, event grammar, and other approaches. Eclectic deployment and integration of available ideas with focus on empirical coverage. Not offered 2001–2002. **Instructor: Achard**

LING 555  SEMINAR IN HISTORICAL LINGUISTICS (3-0-3)

LING 556(S)  SEMINAR IN LANGUAGE VARIATION (3-0-3)
*Instructor: Niedzielski*

LING 570  LANGUAGE DESCRIPTION (3-0-3)

LING 581(F)  GRADUATE RESEARCH (hours variable)
LING 582(S)

LING 590(F)  TEACHING LINGUISTICS (hours variable)
LING 591(S)

LING 610(F)  SEMINAR: TOPICS IN LANGUAGE METHODOLOGY (3-1-3)
Exploration and analysis of a range of theories, issues and problems in foreign language instruction. Areas of inquiry include: the nature of language acquisition, pedagogical methods, instructional technologies, development of teaching materials, and testing/assessment. Also offered as FREN 610, GERM 510, SPAN 610. Offered every year. Required course for all graduate language teaching assistants. **Instructors: Salaberry, Kecht**

LING 611(S)  LANGUAGE METHODOLOGY PRACTICUM (hours variable)
The course, a continuation of LING 610, allows students to gain further knowledge and expertise in aspects of language methodology by attending a series of workshops on topics such as technology and language learning, writing, and content-based instruction. Students will also complete assignments that supplement or expand on the material presented in the workshops. Also offered as GERM 611, FREN 611, SPAN 611. **Instructors: Salaberry, Kecht**

LING 800  DISSERTATION RESEARCH (hours variable)

**Lifetime Physical Activity Program (LPAP)**

**Student Affairs**

**LPAP 101**  LIFETIME PHYSICAL ACTIVITY (0-2-0)
Skill development, knowledge of rules and strategies, concepts of conditioning and wellness, and participation in physical activity. Required for baccalaureate degree. It is recommended that the requirement for LPAP 101/102 be completed during the freshman year. **Instructor: Staff**

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
LPAP 104 INTERMEDIATE INSTRUCTION IN LIFETIME PHYSICAL ACTIVITY (0-2-1 each semester)
See description for LPAP 103. Prerequisite: LPAP 101 and 102. Instructor: Staff

LPAP 105 INTERMEDIATE INSTRUCTION IN LIFETIME PHYSICAL ACTIVITY (0-2-1 each semester)
See description for LPAP 103. Prerequisite: LPAP 101 and 102. Instructor: Staff

LPAP 106 INTERMEDIATE INSTRUCTION IN LIFETIME PHYSICAL ACTIVITY (0-2-1 each semester)
See description for LPAP 103. Prerequisite: LPAP 101 and 102. Instructor: Staff

Managerial Studies (MANA)

The School of Social Sciences

MANA 404 MANAGEMENT COMMUNICATIONS IN A CONSULTING SIMULATION (3-0-3)
Capstone course. Includes communication processes related to the management function and the integration of knowledge and approaches from other courses in the managerial studies major. Open only to managerial studies majors who have completed 8 of the 10 other required courses. Instructor: Ferrill

MANA 497(F) INDEPENDENT STUDY (3-0-3)
Instructor: Soligo

MANA 498(S) INDEPENDENT STUDY (3-0-3)
Instructor: Soligo

Mathematics (MATH)

The Wiess School of Natural Sciences

MATH 101 SINGLE VARIABLE CALCULUS I (3-0-3)
Study of differentiation, extrema, Newton’s method, integration, fundamental theorem of calculus, area, volume, natural logarithm, exponential, and basic techniques of integration. May substitute MATH 111/112 or take MATH 101 after completing MATH 111.

MATH 102 SINGLE VARIABLE CALCULUS II (3-0-3)
Continuation of MATH 101. Includes further techniques of integration, arc length, surface area, Simpson’s rule, and L’Hôpital’s rule, as well as infinite sequences and series, tests for convergence, power series, radius of convergence, polar coordinates, parametric equations, and arc length.

MATH 111(F) FUNDAMENTAL THEOREM OF CALCULUS (3-0-3)
Study of calculus, forming with MATH 112 a slower-paced version of MATH 101/102. Includes less detail in the coverage of infinite series. May take MATH 111/112 followed by MATH 102 or MATH 111 followed by MATH 101/102.

MATH 112(S) CALCULUS AND ITS APPLICATIONS (3-0-3)
See MATH 111.
MATH 211 ORDINARY DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA (3-0-3)
Study of ordinary differential equations (e.g., solutions to separable and linear first-order equations and to higher-order linear equations with constant coefficients, the properties of solutions to differential equations, and numerical solution methods) and linear algebra (e.g., vector spaces and solutions to algebraic linear equations, dimension, eigenvalues, and eigenvectors of a matrix), as well as the application of linear algebra to first-order systems of differential equations and the qualitative theory of nonlinear systems and phase portraits. Use of the computers in Owlnet as part of each homework assignment required. Prerequisite: MATH 102.

MATH 212 MULTIVARIABLE CALCULUS (3-0-3)
Study of gradient, divergence, and curl, Lagrange multipliers, multiple integrals, and spherical coordinates, as well as line integrals, conservative vector fields, Green’s theorem, Stokes’s theorem, and Gauss’s theorem. May substitute MATH 221-222.

MATH 221(F) HONORS CALCULUS III (3-0-3)
This course and MATH 222 include the material of MATH 212 and more. Topology of $\mathbb{R}^n$, calculus for functions of several variables, linear and multilinear algebra, theory of determinants, inner product spaces, exterior differential calculus, and integration on manifolds. A student may not receive credit for both MATH 212 and 222. Prerequisite: permission of department.

MATH 222(S) HONORS CALCULUS IV (3-0-3)
See MATH 221.

MATH 321(F) INTRODUCTION TO ANALYSIS I (3-0-3)
Thorough treatment of basic methods of analysis (e.g., metric spaces, compactness, sequences, and series of functions). Includes topics in analysis (e.g., Hilbert spaces, Fourier series, and Sturm-Liouville theory). Prerequisite: MATH 212 or 222.

MATH 322(S) INTRODUCTION TO ANALYSIS II (3-0-3)
See MATH 321. Includes proofs of the basic results for multivariable calculus (MATH 321 provides proofs for single-variable calculus).

MATH 355(F) LINEAR ALGEBRA (3-0-3)
Study of linear transformations and matrices, the solution of linear equations, eigenvalues and eigenvectors, and quadratic, rational canonical, and Jordan canonical forms. May not receive credit for both MATH 355 and CAAM 310.

MATH 356(S) ABSTRACT ALGEBRA (3-0-3)
Groups: normal subgroups, factor groups, and Abelian groups. Rings: ideals, Euclidean rings, and unique factorization. Fields: algebraic extensions and finite fields. Students may not receive credit for both MATH 356 and MATH 463.

MATH 365(S) NUMBER THEORY (3-0-3)
Study of properties of numbers depending mainly on the notion of divisibility. Includes continued fractions.

MATH 366(S) GEOMETRY (3-0-3)
Study of Euclidean, spherical, hyperbolic, and projective geometry, with emphasis on the similarities and differences found in them. Includes the study and use of isometries and other transformations and a discussion of the history of the development of geometric ideas. Recommended for prospective high school teachers. Offered in alternate years.

MATH 368(F) TOPICS IN COMBINATORICS (3-0-3)
Study of combinatorics and discrete mathematics. Topics that may be covered include graph theory, Ramsey theory, finite geometries, combinatorial enumeration, combinatorial games. Prerequisite: MATH 211. Repeatable for credit with permission of instructor.

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
MATH 381(F)  INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)
Introduction to partial differential equations, with emphasis on equations from science and engineering, using elementary methods. Includes the use of separation of variables to study various boundary value problems and an in-depth coverage of Fourier series and various special functions (e.g., Bessel functions and Legendre polynomials).

MATH 382(S)  COMPLEX ANALYSIS (3-0-3)
Study of the Cauchy integral theorem, Taylor series, and residues, as well as the evaluation of integrals by means of residues, conformal mapping, and application to two-dimensional fluid flow. May not receive credit for both MATH 382 and MATH 427.

MATH 390  UNDERGRADUATE COLLOQUIUM (1-0-1)
Lectures by undergraduates on mathematical topics not usually covered in other courses. Presentation of one lecture and attendance at all sessions required.

MATH 401(F)  DIFFERENTIAL GEOMETRY (3-0-3)
Study of the differential geometry of curves and surfaces in $\mathbb{R}^3$. Includes an introduction to the concept of curvature and thorough treatment of the Gauss-Bonnet theorem.

MATH 402(S)  DIFFERENTIAL GEOMETRY (3-0-3)
Introduction to Riemannian geometry. Content varies from year to year. Prerequisites: MATH 401 and either MATH 443 or permission of instructor.

MATH 423(F)  PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)
Study of the wave equation, Laplace’s equation, and heat equation. Includes first-order hyperbolic systems, the Cauchy-Kowalewski theorem, potential theory, Dirichlet and Neumann problems, integral equations, and elliptic equations.

MATH 424(S)  PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)
Study of the theory of distributions and fundamental solutions. Content varies from year to year. Prerequisite: MATH 423.

MATH 425(F)  INTEGRATION THEORY (3-0-3)
Study of the Lebesgue theory of measure and integration.

MATH 426(S)  TOPICS IN REAL ANALYSIS (3-0-3)
Content varies from year to year. May include Fourier series, harmonic analysis, probability theory, advanced topics in measure theory, ergodic theory, and elliptic integrals.

MATH 427(S)  COMPLEX ANALYSIS (3-0-3)
Study of the Cauchy-Riemann equation, power series, Cauchy’s integral formula, residue calculus, and conformal mappings.

MATH 428(F)  TOPICS IN COMPLEX ANALYSIS (3-0-3)
Content varies from year to year. May include the Riemann mapping theorem, uniformization, Runge’s theorem, elliptic function theory, the prime number theorem, and Riemann surfaces.

MATH 443(S)  GENERAL TOPOLOGY (3-0-3)
Study of basic point set topology. Includes a treatment of cardinality and well ordering, as well as metrizability. MATH 321 or permission of instructor recommended.

MATH 444(F)  GEOMETRIC TOPOLOGY (3-0-3)
Introduction to algebraic methods in topology and differential topology. Includes elementary homotopy theory and covering spaces. Co-/Prerequisite: MATH 356 or 463 and MATH 321 or 443 or permission of instructor.

MATH 445(S)  ALGEBRAIC TOPOLOGY (3-0-3)
Introduction to the theory of homology. Includes simplicial complexes, cell complexes, and cellular homology and cohomology, as well as manifolds, and Poincaré duality. Prerequisites: MATH 444 and 356 or 463 or permission of instructor.

(F) = fall; (S) = spring
MATH 463(F) ALGEBRA I (3-0-3)
Study of groups, rings, fields, and vector spaces. Includes matrices, determinants, eigenvalues, canonical forms, and multilinear algebra, as well as the structure theorem for finitely generated Abelian groups and the Galois theory.

MATH 464(S) ALGEBRA II (3-0-3)
Continuation of MATH 463.

MATH 465(S) TOPICS IN ALGEBRA
Content varies from year to year. Prerequisites: MATH 356, MATH 463 or the permission of the instructor.

MATH 490 SUPERVISED READING (hours variable)

MATH 501(F) TOPICS IN DIFFERENTIAL
MATH 502(S) GEOMETRY (3-0-3 each semester)

MATH 517(F) MATHEMATICAL PHYSICS (3-0-3 each semester)

MATH 521(F) ADVANCED TOPICS IN REAL
MATH 522(F) ANALYSIS (3-0-3 each semester)
Seminar in real analysis. May include singular integral operators, maximal functions, Hardy spaces, Lipschitz spaces, and Sobolev spaces. Prerequisite: MATH 425 or permission of instructor.

MATH 523(S) FUNCTIONAL ANALYSIS (3-0-3)
Seminar on locally convex spaces, Banach spaces, Hilbert spaces, and special topics.

MATH 526(S) TOPICS IN COMPLEX ANALYSIS (3-0-3)

MATH 527(S) ERGODIC THEORY AND TOPOLOGICAL

MATH 590 CURRENT MATHEMATICS SEMINAR (1-0-1)
Lectures on topics of recent research in mathematics delivered by mathematics graduate students and faculty. Prerequisite: graduate student standing or permission of department.

MATH 591 GRADUATE TEACHING SEMINAR (1-0-1)
Discussion of teaching issues and practice lectures by participants as preparation for classroom teaching of mathematics. Prerequisite: graduate student standing or permission of department.

MATH 800 THESIS AND RESEARCH (hours variable)

Program in Medieval Studies (MDST)
The School of Humanities

MDST 101(F) ELEMENTARY LATIN I (3-0-3)
Study of the fundamentals of Latin grammar, with emphasis on the acquisition of reading skills. Also offered as LATI 101. Instructor: McGill

MDST 102(S) ELEMENTARY LATIN II (3-0-3)
Continuation of MDST 101. Also offered as LATI 102. Instructor: Wallace

MDST 108(F) ART IN CONTEXT: LATE MEDIEVAL AND RENAISSANCE CULTURE (3-0-3)
This course will be concerned with art, architecture, and history of the late Middle Ages and Renaissance. We will employ historical texts, literature, and illustrations of works of art, showing how historical documents and sources can illuminate the cultural context of art and architecture. Also offered as Hart 240 and HUMA 108. Instructors: Manca, Neagley

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
MDST 111(F)  INTRODUCTION TO THE HISTORY OF WESTERN ART I: PREHISTORIC TO GOTHIC (3-0-3)
Survey of painting, sculpture, and architecture from the Paleolithic period to the 14th century. One additional hour of tutorial per week assigned during first week. Also offered as HART 101. 
_instructor: Neagley_

MDST 201(F)  HISTORY OF PHILOSOPHY I (3-0-3)
Survey of the major philosophers and philosophical systems of ancient Greece, from Parmenides to the Stoics. Also offered as PHIL 201. _Instructor: Morrison_

MDST 202(F)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE EARLY MIDDLE AGES (3-0-3)
Introduction to European culture of the “Dark Ages,” from the fall of Rome to the end of Viking invasions. Includes the use of historical, literary, artistic, and archaeological sources to trace changes in European material, spiritual, and cultural life between 300 A.D – 1000 A.D. Offered with additional work as MDST 325. Also offered as HIST 202 and with additional work as HIST 325. _Instructor: Stahl_

MDST 203(S)  INTRODUCTION TO MEDIEVAL CIVILIZATION: THE HIGH MIDDLE AGES (3-0-3)
Continuation of MDST 202 (not a prerequisite). Includes European culture from the year 1000 to the discovery of the Americas, which encompasses the Crusades, the “discovery of the individual,” chivalry and chivalric literature, the Black Death, and the beginnings of the Age of Exploration, using pictorial and architectural as well as literary and historical sources. Offered with additional work as MDST 326. Also offered as HIST 203 and with additional work as HIST 326. Offered as HUMA 103. _Instructor: Stahl_

MDST 211(F)  INTERMEDIATE LATIN I: PROSE (3-0-3)
Review of grammar and readings in Latin prose. Also offered as LATI 201. Prerequisite: LATI 101 or equivalent. _Instructor: Wallace_

MDST 212(S)  INTERMEDIATE LATIN II (3-0-3)
Readings in Vergil’s Aeneid. Also offered as LATI 202. _Instructor: Wallace_

MDST 222(S)  MEDIEVAL AND RENAISSANCE MUSIC (3-0-3)
Historical study of musical style, concentrating on these medieval and Renaissance eras. Required for music majors. Prerequisite: MUSI 221. Also offered as MUSI 222. Note to Music Majors: Course will not be offered in 2002–2003. _Instructor: Meconi_

MDST 257(F)  JEWS AND CHRISTIANS IN MEDIEVAL EUROPE (3-0-3)
Though Jewish and Christian history are often treated as separate fields, over the course of their long coexistence the two communities profoundly affected each other. Their histories are intimately related. This course will study these relations, focusing on Jewish communities within the context of Christian Europe. Offered with additional work as MDST 357. Also offered as HIST 257 and with additional work as HIST 357. _Instructor: Haverkamp_

MDST 259(S)  THE MEDIEVAL CULTURES OF JUDAISM AND CHRISTIANITY (3-0-3)
Though Jewish and Christian history are often treated as separate fields, over the course of their long coexistence the two communities profoundly affected each other. Their histories, therefore, are intimately related. This survey will cover in a comparative and thematic approach various fields in medieval history of Jews and Christians concerning religion, theology, philosophy, mysticism, popular culture, social relations, communities, governmental structures, family life, economy, trade, and persecutions. Offered with additional work as MDST 359. Also offered as HIST 259 and with additional work as HIST 359. _Instructor: Haverkamp_

(F) = fall; (S) = spring
MDST 273(F)    ANCIENT AND MEDIEVAL JEWISH HISTORY, 70-1492 (3-0-3)
Jewish history from antiquity to the Jews’ expulsion from Spain. Jewish life under the Romans, Muslims, and Christians, seen from the perspective of settlement, assimilation, and the particularities of the Jewish historical experience. Lecture and discussion of primary sources in translation. Offered with additional work as MDST 373. Also offered as HIST 273 and with additional work as HIST 373. Not offered 2001–2002. Instructor: Haverkamp

MDST 281(F)    THE MIDDLE EAST FROM THE PROPHET MUHAMMAD TO MUHAMMAD ALI (3-0-3)
An introduction to the history of the Middle East from the rise of Islam to the beginning of the nineteenth century. Topics include the Islamic conquests and the classical Islamic state, Arabization, Jewish and Christian communities, the impact of the Turkic peoples, and the Ottoman Empire, with an emphasis on the long-term social, cultural, and political trends that shaped the history of the region in the pre-modern period. Also offered as HIST 281. Instructor: Sanders

MDST 300(F)    MEDIEVAL LITERATURE: MEDIEVAL WOMEN WRITERS (3-0-3)
A survey of major continental European women writers and their works, in translation and in Middle English, from the 5th to the 15th centuries, with attention to feminist, gender, and reader-response theory. Among the mystics, philosophers, scientists, and court-poets will be Hrotsvit of Gandersheim, Heloise, Hildegard of Bingen, Marie de France, Margery Kempe and Julian of Norwich, and Christine de Pizan. Refer to course web site at http://www.ruf.rice.edu/~jchance/mewom.htm. Also offered as ENGL 311 and WGST 300. Different topics may be repeated for credit. Instructor: Chance

MDST 301(S)    ANCIENT AND MEDIEVAL PHILOSOPHY (3-0-3)
Exploration of major philosophical writings from the 4th century B.C. through the 14th century A.D. Content varies from year to year. Normally offered every year. Also offered as PHIL 301. Instructor: Morrison

MDST 303(F)    UNDERGRADUATE INDEPENDENT READING

MDST 304(S)    UNDERGRADUATE INDEPENDENT READING
Independent reading under the supervision of a faculty member. Open to a limited number of advanced students with special permission. Prerequisite: Permission of instructor. Instructor: Staff

MDST 308(S)    THE WORLD OF LATE ANTIQUITY (3-0-3)
Study of the social, religious, and political history of the Roman world from Diocletian to the rise of Islam, with emphasis on the breaking of the unity of the Mediterranean world and the formation of Byzantine society in the Greek East. Also offered as HIST 308. Not offered 2001–2002. Instructor: Maas

MDST 311    OLD ENGLISH (3-0-3)
Also offered as LING 312 and ENGL 324. Prerequisite: permission of instructor. Not offered 2001–2002. Instructor: Mitchell

MDST 312    SURVEY OF OLD ENGLISH LITERATURE: GENDER AND POWER IN OLD ENGLISH (3-0-3)
Readings of poems and prose about Old English women, in translation, including “The Wife’s Lament,” “Wulf and Eadwacer,” “Beowulf,” “Juliana,” “Elena,” “Judith,” “Genesis B,” the Advent Lyrics on the Virgin, and materials from chronicle, myth, and legend (i.e. on the Amazons, Circe, and Eurydice). Also offered as ENGL 312, LING 312, and WGST 312. Not offered 2001–2002. Instructor: Chance

MDST 313    BEOWULF (3-0-3)
Also offered as ENGL 313. Not offered 2001–2002. Instructor: Chance

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MDST 314  **SURVEY OF MIDDLE ENGLISH LITERATURE** (3-0-3)
Content varies. A survey of Middle English lyrics, romances, dream visions, debate poems, mystery plays, and other philosophical and biographical treatises from 1250–1500. Also offered as ENGL 314. Not offered 2001–2002. *Instructor: Chance*

MDST 315  **INTRODUCTION TO MEDIEVAL CULTURE, 1000-1492** (3-0-3)
Also offered as ENGL 315. Not offered 2001–2002. *Instructor: Chance*

MDST 316  **CHAUCER** (3-0-3)
Focus will be primarily on *The Canterbury Tales*, their philosophical and material culture, and their dramatic and literary potential. Also offered as ENGL 316 and WGST 305. Refer to course web site at http://www.ruf.rice.edu/~jchance/chaucer2.html. Not offered 2001–2002. *Instructor: Chance*

MDST 317  **ARTHURIAN LITERATURE** (3-0-3)
A survey of the origins and development of the Arthurian legend from the earliest chronicles in the sixth century and later medieval French, Welsh, Irish, and English Arthurian poems to modern adaptations of Arthurian material, including films. Also offered as ENGL 317 and WGST 301. Refer to course web site at http://www.ruf.rice.edu/~jchance/arthurian2.html. Not offered 2001–2002. *Instructor: Chance*

MDST 318(S)  **J.R.R. TOLKIEN** (3-0-3)
J.R.R. Tolkien, an Oxford professor and eminent medievalist now recognized as one of the greatest writers of the 20th century for his masterpiece, *Lord of the Rings* (written ca. 1930s – early 1950s), wrote out of what he knew about Old English, Old Norse, and Middle English literature. This course will trace the tension between the exile (wraecca) and the community; otherness and heroism; identity and marginalization; and revenge and forgiveness. To locate Lord of the Rings within a broader historical and literary context, we will read *The Hobbit*, *The Silmarillion*, and Tolkien’s works on fantasy and mythmaking, “Mythopoiea,” “Leaf by Niggle,” and “On Fairy-Stories.” Refer to course web site at http://www.ruf.rice.edu/~jchance. Limited enrollment. Also offered as ENGL 318. *Instructor: Chance*

MDST 320(F)  **SCIENCE IN ANTIQUITY AND THE MIDDLE AGES** (3-0-3)
Survey of science from ancient Mesopotamia, Egypt, and Greece to the end of the Middle Ages. No expertise in science required. Also offered as HIST 320. Not offered 2001–2002. *Instructor: Staff*

MDST 321 (F)  **DIRECTED READINGS IN MEDIEVAL HISTORY**
*Instructor: Staff*

MDST 322 (S)  **DIRECTED READINGS IN MEDIEVAL HISTORY**
*Instructor: Staff*

MDST 325(F)  **INTRODUCTION TO MEDIEVAL CIVILIZATION: THE EARLY MIDDLE AGES** (3-0-3)
Enriched version of MDST 202. May not receive credit for both MDST 202 and MDST 325. Also offered as HIST 325. *Instructor: Stahl*

MDST 326(S)  **INTRODUCTION TO MEDIEVAL CIVILIZATION: THE HIGH MIDDLE AGES** (3-0-3)
Enriched version of MDST 203. May not receive credit for both MDST 203 and MDST 326. Also offered as HIST 326. *Instructor: Stahl*

MDST 327(F)  **LATE ANTIQUE/EARLY CHRISTIAN ART AND ARCHITECTURE** (3-0-3)
Examination of the accommodations made by 3rd century A.D. abstraction and continuing Hellenism to Christian content in the centuries following Constantine’s Edict of Milan in 313. Includes questions of interaction between the “Cult of the Emperor” and Christianity as the prescribed state religion. Prerequisite: permission of instructor. Also offered as HART 317. Not offered 2001–2002. *Instructor: Neagley*
MDST 330(F)  EARLY MEDIEVAL ART FORM 5TH CENTURY TO THE ROMANESQUE PERIOD (3-0-3)
Study of medieval art, with emphasis in part one on the art and architecture produced in Europe during the Dark Ages (e.g., the work of the Visigoths, Celts, Anglo-Saxons, Merovingians, Carolingians, and Ottonians) and in part two on the major revival of art and architecture in the medieval monasteries of the Romanesque period. Prerequisite: permission of instructor. Also offered as HART 330. Instructor: Neagley

MDST 331(F)  GOTHIC ART AND ARCHITECTURE IN NORTHERN EUROPE, 1140-1300: THE AGE OF CATHEDRALS (3-0-3)
Examination of the full array of sacred art and architecture produced in the early and high gothic periods in northern Europe. Includes cathedral architecture, sculpture, stained glass, manuscripts, and metalwork studied in relationship to the expansion of royal and episcopal power. Prerequisite: permission of instructor. Also offered as HART 331. Not offered 2001–2002. Instructor: Neagley

MDST 332(S)  LATE GOTHIC ART AND ARCHITECTURE IN NORTHERN EUROPE, 1300-1500 (3-0-3)
Examination of art and architecture produced in the late gothic period within three distinct settings—the court, the city, and the church. Includes private, public, and religious life as expressed in the objects, architecture, and decoration of the castle and palace, the house, the city hall and hospital, and the chapel and parish church. Prerequisite: permission of instructor. Also offered as HART 332. Not offered 2001–2002. Instructor: Neagley

MDST 336(S)  ART AND ARCHITECTURE IN THE MIDDLE EAST: THE LATE MEDIEVAL PERIOD THROUGH THE MODERN PERIOD (3-0-3)
This course surveys the art and architecture of the Islamic Middle East from the 13th century onwards. It examines the relationship of art to historical context, its social uses, and the construction of its meaning. Of special concern are the visual productions of the Mamluk, Il-Khanid, Timurid, Ottoman, and Safavid states, and the development of imperial capitals such as Cairo, Bukhara, Samarkand, Istanbul, and Isfahan. Enrollment is limited to 40. Prerequisite: permission of instructor. Also offered as HART 326. Instructor: Watenpaugh

MDST 338(F)  SPECIAL TOPICS IN MEDIEVAL ART
Special topics and new courses in medieval art. Not necessarily repeated. May be used in awarding transfer credit. Also offered as HART 338. Prerequisite: permission of instructor. Instructor: Staff

MDST 339(F)  INDEPENDENT STUDY IN MEDIEVAL ART
Independent study, reading, or special research in medieval art. Also offered as HART 339. Prerequisite: permission of instructor. Instructor: Staff

MDST 340  ANCIENT AND MEDIEVAL POLITICAL THEORY (3-0-3)
Study of the sources of ancient and medieval political thought, with emphasis on the historical analysis of political philosophy and mythology and the influence of Plato and Aristotle. Also offered as POLI 340. Not offered 2001–2002. Instructor: Cuthbertson

MDST 345(S)  EARLY MODERN EUROPE: HUMANISM AND EXPANSION (3-0-3)
Exploration of major cultural developments in Western Europe from the rise of Italian humanism in the 14th century to European conquest and expansion in the 16th century. Also offered as HIST 345. Not offered 2001–2002. Instructor: Quillen

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MDST 355(F)  ART AND ARCHITECTURE IN THE MIDDLE EAST: THE MEDIEVAL PERIOD (632-1450) (3-0-3)
Survey of art and architecture of the Middle East from the 7th through 13th centuries. It examines the form and function of architecture settings and works of art, as well as the social and cultural contexts, patterns of use, and evolving meanings attributed to art by the users. Of special concern is the evolution of the Islamic tradition, analysis of urban patterns and rituals. Prerequisite: permission of instructor. Also offered as HART 325. Instructor: Watenpaugh

MDST 357(F)  JEWS AND CHRISTIANS IN MEDIEVAL EUROPE (3-0-3)
Enriched version of MDST 257. May not receive credit for both MDST 257 and MDST 357. Also offered as HIST 357. Instructor: Haverkamp

MDST 359(S)  THE MEDIEVAL CULTURES OF JUDAISM AND CHRISTIANITY (3-0-3)
Enriched version of MDST 259. May not receive credit for both MDST 259 and MDST 359. Also offered as HIST 359. Instructor: Haverkamp

MDST 368(F)  MYTHOLOGIES (3-0-3)
This interdisciplinary course will introduce students to a variety of world mythologies and myth-makers, from the beginnings to the modern period. Designed to explore the relationship between a culture and its myths as expressed in specific literary or religious works, “Mythologies” offers a means of understanding cultural difference as well as the fundamental topics of human desire and aspiration (creation and birth, the purpose of life, heroic struggle against nature and death, the hope for rebirth, etc.). Included mythologies: Babylonian, Sumerian, Hindu, Egyptian, Greek, Roman, Irish, Welsh, Old Norse, Anglo-Saxon, Finnish, Mayan, Hopi, modern (Borges, Philip Glass). Also offered as ENGL 368 and WGST 368. Refer to course web site at http://www.ruf.rice.edu/~jchance/myth.htm. Instructor: Chance

MDST 373(F)  ANCIENT AND MEDIEVAL JEWISH HISTORY, 70-1492 (3-0-3)

MDST 382(S)  CLASSICAL ISLAMIC CULTURE (3-0-3)
An introduction to the culture and religion of the Islamic world from the 9th through the 14th centuries. Topics include Islamic law and theology, philosophy, ritual, Islamic science and medicine, classical Arabic literature, the impact of Arabo-Islamic culture on Jewish and Christian cultures of the Islamic world. Also offered as HIST 382. Not offered 2001–2002. Instructor: Sanders

MDST 384(S)  THE CRUSADES: HOLY WAR IN MEDIEVAL CHRISTENDOM AND ISLAM (3-0-3)
Examination of the Crusades (11th–15th centuries) from the point of view of both Christian Europe and the Islamic Near East. Includes the political and military history of the Crusades, as well as the social, cultural, and religious transformations that caused, and were wrought by, these conflicts. Also offered as HIST 384. Not offered 2001–2002. Instructor: Staff

MDST 385(S)  CHRISTIANS AND JEWS IN THE MEDIEVAL ISLAMIC WORLD (3-0-3)
Examination of Christian and Jewish communities in the Islamic world from the rise of Islam to the end of the Ottoman Empire. Includes the legal status of dhimmis (protected peoples), social and economic life, communal organization, the interplay of Jewish and Muslim laws, and political authority in these communities, as well as discussion of their modern historiography, a comparative study of Jewish communities in Christendom and Islam, and discussion of Muslim communities living under Christian rule in the Middle Ages. Also offered as HIST 385. Not offered 2001–2002. Instructor: Sanders

(F) = fall; (S) =
MDST 387(S)  LIFE ON THE NILE: EGYPTIAN POLITICS, CULTURE, AND SOCIETY, MEDIEVAL TO MODERN TIMES (3-0-3)
Examination of Egyptian history from the Arab conquest in 641 to the 20th century, with emphasis on major themes in Egypt’s political, social, and cultural life, on historical continuities and discontinuities, and on problems of historical interpretation. Also offered as HIST 387. Not offered 2001–2002. **Instructor: Sanders**

MDST 391(S)  HISPANIC WOMEN WRITERS (3-0-3)
Exploration of the ways in which women writers in the 8th through 17th centuries have developed their literary works (prose, poetry, and drama). Emphasis on historical, religious, and political contexts. Readings will include Hispanic and Latin American authors: Sor Teresa de Cartagena, Sor Isabel de Villena (15th century); Santa Teresa de Jesús, Beatriz Bernal (16th century); and María de Zayas and Sor Juana Inés de la Cruz (17th century), among others. Also offered as SPAN 391 and WGST 391. Refer to course web site at http://www.ruf.rice.edu/~merida/mdst_391.htm. **Instructor: Mérida-Jiménez**

MDST 395(F)  HISTORY OF THE ENGLISH LANGUAGE (3-0-3)
Survey of 6,000 years of language history. Includes the phonological, morphological, syntactic, and semantic history of the English language from its Indo-European origins, through the Anglo-Saxon and Middle English periods, and up to the present day. Also offered as ENGL 395 and LING 395. **Instructor: Mitchell**

MDST 406  CHRISTINE DE PIZAN IN 15TH-CENTURY ENGLAND (3-0-3)
The Franco-Italian woman poet Christine de Pizan was translated into English during the 15th century along with other poems dealing with the subject of female experience and the female hero, such as Jean d’Arras’s “Melusene” and Boccaccio’s “Concerning Famous Women.” This seminar will examine these and other English poems about women as early as Chaucer’s “Legend of Good Women” and as late as the “Assembly of Ladies,” “Floure and the Leafe,” “The Assembly of Gods,” and Thomas Hoccleve’s “Letter of Cupid.” Refer to course web site http://www.ruf.rice.edu/~jchance/christin.html. Also offered as ENGL 415 and WGST 406. Not offered 2001–2002. **Instructor: Chance**

MDST 410  LITERARY AND HISTORICAL IMAGES OF THE MEDIEVAL WOMAN (3-0-3)
Undergraduate version of MDST 411. Also offered as FREN 510. Prerequisites: FREN 301 and FREN 311. Not offered 2001–2002. **Instructor: Nelson**

MDST 411  LITERARY AND HISTORICAL IMAGES OF THE MEDIEVAL WOMAN (3-0-3)
Comparison and contrast of the presentation of the medieval woman in literature with extant evidence of historical women from contemporary documents and records. Also offered as FREN 510. Not offered 2001–2002. **Instructor: Nelson**

MDST 412  MEDIEVAL STUDIES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 412. Not offered 2001–2002. **Instructor: Staff**

MDST 414(S)  LITERATURE AND CULTURE OF THE MIDDLE AGES: SAINTS AND SINNERS (3-0-3)
Study of medieval French works that depict saints and sinners with the goal of assessing the cultural structure that sets the limits of these labels. Prerequisites: FREN 301 and FREN 311. Also offered as FREN 414. Not offered 2001–2002. **Instructor: Nelson**

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MDST 415(F) COURTY Love IN MEDEival FRANCE (3-0-3)
Undergraduate version of FREN 515. Examination of social, religious, philosophical, and historical aspects of the 12th Century that combined to produce a new concept of love expressed first in Occitan lyric poetry, lais, and romances of northern France. Included are medieval works based on this concept, such as lyric poetry of both langue d’oc and langue d’oil, the lais of Marie de France, and Le Chevalier à la charette by Chrétien de Troyes, as well as works from later centuries that demonstrate the continuation of what has become a social construct. Also offered as FREN 415. Prerequisites: FREN 301 and FREN 311. Also offered as FREN 415. Instructor: Nelson

MDST 416 CHAUCER AND THE SUBVERSIVE OTHER:
WOMEN, GENDER, NATION, CLASS (3-0-3)
A 14th-century poet who worked for the king as controller of customs and works, Chaucer nevertheless embedded in his poems with sympathetic treatments of women, the commons, homosociality, and otherness as expressed through multicultural indicators expressive of nation and religion. This seminar will explore exemplary treatments of alterity and difference in Chaucer and the complex poetic strategies he chose to conceal his sympathies. Previous topics include “Chaucer and the Learned Tradition.” Refer to course web site http://www.ruf.rice.edu/~jchance/ch.html. Also see course web sites for Chaucer and the Learned Tradition at http://www.ruf.rice.edu/~jchance/chaucer.html and Medieval Women Writers at http://www.ruf.rice.edu/~jchance/medwom.html. Also offered as ENGL 516 and WGST 305. Not offered 2001–2002. Instructor: Chance

MDST 417 MEDIEVAL WOMEN WRITERS (3-0-3)
A survey of major continental European women writers and their works, in translation and in Middle English, from the 5th to the 15th centuries, with attention to feminist, gender, and reader-response theory. Among the mystics, philosophers, scientists, and court-poets will be Hrotsvit of Gandersheim, Heloise, Hildegard of Bingen, Marie de France, Margery Kempe and Julian of Norwich, and Christine de Pizan. Refer to course web site at http://www.ruf.rice.edu/~jchance/medwom.html. Also offered as ENGL 517 and WGST 413. Not offered 2001–2002. Instructor: Chance

MDST 418(S) STUDIES IN MEDEival SPANISH LITERATURE (3-0-3)
This course offers analytical insight into the key development of the history of Iberian literature from the 10th to the 15th century. The approach will incorporate recent scholarship in women and gender studies, as well as some of the more important resources for the study of Hispanic cultures (e.g., printed and electronic editions, video, internet). Refer to course web site at http://www.ruf.rice.edu/~merida. Also offered as SPAN 418. Instructor: Mérida-Jiménez

MDST 424(F) STUDIES IN HISPANIC LINGUISTICS (3-0-3)
Content varies from year to year. Topics include the history of the Spanish language, Old Spanish, and Spanish American dialectology and the linguistic structure of Spanish. Also offered as SPAN 315 and LING 424. Not offered 2001–2002. Instructor: Salaberry

MDST 425 COURTY Love IN MEDEival FRANCE (3-0-3)
Examination of social, religious, philosophical, and historical aspects of the 12th century that combined to produce a new concept of love expressed first in Occitan lyric poetry and later in the poetry, lais, and romances of northern France. Included are medieval works based on this concept, such as lyric poetry of both langue d’oc and langue d’oil, the lais of Marie de France, and Le Chevalier à la charette by Chrétien de Troyes, as well as works from later centuries that demonstrate the continuation of what has become a social construct. Also offered as FREN 515. Not offered 2001–2002. Instructor: Nelson

MDST 426(S) WOMEN AND GENDER IN MEDIEVAL IBERIA (3-0-3)
Comparative introduction and analysis of the different cultures of the Iberian Middle Ages and the role of gender in literary genres. Exploration of the ways in which women have been represented in the 11th through 15th centuries. Some of the main topics will be (homo)eroticism, motherhood, and prostitution. Refer to course web site at http://www.ruf.rice.edu/~merida/msdt_426.htm. Also offered as SPAN 426 and WGST 426. Not offered 2001–2002. Instructor: Mérida-Jiménez

(F) = fall; (S) =
MDST 427 (F)  ISSUES IN ISLAMIC ARCHITECTURE  (3-0-3)
This course focuses on architecture and urban issues in the Islamic Middle East. The scope is comparative, and the content of the course is variable. Readings and discussion address historical and theoretical issues. Prerequisite: permission of instructor. Also offered as HART 425. Not offered 2001–2002. Instructor: Staff

MDST 428 (S)  STUDIES IN MEDIEVAL SPANISH LITERATURE  (3-0-3)
Graduate version of MDST 418. Refer to course web site at http://www.ruf.rice.edu/~merida. Also offered as SPAN 518. Instructor: Mérida-Jiménez

MDST 429 (F)  MUSIC OF THE MIDDLE AGES  (3-0-3)
Study of Western art music before 1400. Also offered as MUSI 429. Instructor: Meconi

MDST 430  THE GOTHIC PORTAL  (3-0-3)
Seminar on the form and meaning of sculptural programs attached to French gothic cathedrals such as Chartres, Reims, and Amiens. Includes issues of iconography, style, and production, as well as more recent concerns of narrative, reception, and audience, all within the context of medieval church doctrine and political and social life. Also offered as HART 430. Prerequisite: permission of instructor. Not offered 2001–2002. Instructor: Neagley

MDST 435  TOPICS IN GERMANIC LINGUISTICS: OLD ICELANDIC  (3-0-3)

MDST 438 (F)  WOMEN AND GENDER IN ISLAMIC SOCIETIES  (3-0-3)
Examination of some features of the legal position and social realities of men and women in the Islamic world, with emphasis on how boundaries of gender have traditionally been drawn. Includes family and sexual ethics, the harem, polygyny, divorce, and eunuchs (who played an important role both in the military and in certain religious institutions). Also offered as HIST 438 and WGST 455. Not offered 2001–2002. Instructor: Sanders

MDST 439 (S)  HIERONYMUS BOSCH: PROBLEMS OF INTERPRETATION  (3-0-3)
Also offered as HART 439. Prerequisite: permission of instructor. Instructor: Neagley

MDST 440 (S)  JAN VAN EYCK: PROBLEMS OF INTERPRETATION  (3-0-3)
Seminar and in-depth research on the art and historiography of the early Netherlandish painter Jan van Eyck. Also offered as HART 440. Prerequisite: permission of instructor. Not offered 2001–2002. Instructor: Neagley

MDST 441  HILDEGARD OF BINGEN  (3-0-3)
The course examines the life and works of 12th-century polymath Hildegard of Bingen, including her achievements in music, poetry, religious thought, medicine, natural science, and linguistics. Also offered as MUSI 724 and WGST 441. Not offered every year. Not offered 2001–2002. Instructor: Meconi

MDST 444 (S)  MEMORY AND COMMEMORATION IN THE MIDDLE AGES  (3-0-3)
Memory and commemoration are in general terms described as intentions, attitudes, acts, and media that should prevent oblivion of individuals and communities (beyond death). In this way, they determine thought, emotions, and actions in fundamental ways. They possess universal dimensions that go back to antiquity and are influential up to the present. Today, they are often driven out either into the atomistic sphere of individual remembrance, into the institutional realm of politics, or into the secluded world of museums. However, this suppression enhances their importance for our life. Also offered as HIST 444. Instructor: Haverkamp

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MDST 445  CHRISTINE DE PIZAN IN 15TH-CENTURY ENGLAND (3-0-3)
The Franco-Italian woman poet Christine de Pizan was translated into English during the 15th century along with other poems dealing with the subject of female experience and the female hero, such as Jean d’Arras’s “Melusene” and Boccaccio’s “Concerning Famous Women.” This seminar will examine these and other English poems about women as early as Chaucer’s “Legend of Good Women” and as late as the “Assembly of Ladies,” “Floure and the Leafe,” “The Assembly of Gods,” and Thomas Hoccleve’s “Letter of Cupid.” Refer to course web site at http://www.ruf.rice.edu/~jchance/christin.hrml. Also offered as ENGL 515 and WGST 406. Not offered 2001–2002. Instructor: Chance

MDST 446(S)  JEWISH COMMUNITIES IN THE MIDDLE AGES AND EARLY MODERN TIMES (3-0-3)
New forms of communal organizations developed in medieval Christian Europe that differed from the patterns of Jewish self-government in Babylon, Israel, and Islamic countries. This course will discuss characteristics of Jewish communal organizations, their parallel features and their connections with Christian communal organizations, and their relationships to rising modern states. Also offered as HIST 446. Not offered 2001–2002. Instructor: Haverkamp

MDST 455(F)  GUIDE TO THE SOURCES OF MEDIEVAL HISTORY (3-0-3)
This seminar will introduce the typology of the sources of medieval history and the auxiliary sciences of history. Also offered as HIST 555. Not offered 2001–2002. Instructor: Haverkamp

MDST 456  COLLEGIUM
Performance of music before 1600. Also offered as MUSI 436. Instructor: Meconi

MDST 460(F)  ADVANCED SEMINAR IN ANCIENT HISTORY: THE AGE OF JUSTINIAN (3-0-3)
Study of developments in law, religion, foreign affairs, art and architecture, the status of women, and science during the reign of the Roman emperor Justinian (527-565), exploring changes from the classical to the medieval Mediterranean world. Includes ancient texts in translation and modern scholarship, with emphasis on research techniques and writing. Limited enrollment. Prerequisites: HIST 201 and 307, or permission of instructor. Also offered as HIST 460. Not offered 2001–2002. Instructor: Maas

MDST 461(F)  DIRECTED READING
MDST 462(S)  DIRECTED READING
Instructor: Staff

MDST 465(F)  JEWS AND CHRISTIANS: PERCEPTIONS OF THE OTHER (3-0-3)
This course will study how Jews and Christians imagined the other in the Middle Ages and how these perceptions persisted and changed during modern times. Topic of discussion: just as the Jewish position towards Christianity was influenced by Christian attitudes toward Jews, we must assume that the Christian stance was influenced by Jewish attitudes toward Christianity. Also offered as HIST 445. Instructor: Haverkamp

MDST 472  OLD ENGLISH AND CONTEMPORARY THEORY (3-0-3)
An introduction to Old English grammar. Readings from selected Old English prose and poetry of the 8th–11th centuries, supplemented by current critical readings relating to feminist and gender theory, semiotics, postmodernism, and ethnic diversity. Also offered as ENGL 512. Not offered 2001–2002. Instructor: Staff

MDST 478  MEDIEVAL STUDIES SPECIAL TOPICS
Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 518. Not offered 2001–2002. Instructor: Staff

(F) = fall; (S) = spring
Mechanical Engineering (MECH)

The George R. Brown School of Engineering/Department of Mechanical Engineering and Materials Science

**MECH 200(S)  CLASSICAL THERMODYNAMICS (3-0-3)**
Explication of the fundamental laws of classical thermodynamics and deductions from them. Includes applications with particular attention to pure substances. Required for mechanical engineering majors. Prerequisites: PHYS 101 and 102. Instructor: Chapman

**MECH 211  ENGINEERING MECHANICS (3-0-3)**
Study of the equilibrium of static systems, the dynamics of a particle and particle systems, and rigid-body dynamics. Includes elements of vibrational analysis. Required for mechanical engineering and materials science and engineering majors. Prerequisites: PHYS 101 and MATH 101 and 102. Also offered as CIVI 211. Instructor: Staff

**MECH 308  SENIOR DESIGN JUNIOR OBSERVERS (hours variable)**

**MECH 311(S)  MECHANICS OF DEFORMABLE SOLIDS (3-0-3)**
Analysis of stress and the deformation of solids with applications to beams, circular shafts, and columns. Required for mechanical engineering majors. Prerequisite: MECH 211. Instructor: Staff

**MECH 314(S)  INTRODUCTION TO MECHANICAL DESIGN (3-0-3)**
Introduction to the design process. Includes materials selection and design methods. Prerequisite: MECH 311 or CIVI 300. Not offered every year.

**MECH 321(F)  COMPUTATIONAL MECHANICS IN DESIGN (3-0-3)**
Study of the fundamental theory of computational mechanics for thermal, fluid, and solid systems. Includes “hands-on” experience with commercial software and applications to open-ended design problems. Prerequisites: MECH 200, 311 (or CIVI 300), and 371. Not offered every year.

**MECH 331(S)  JUNIOR LABORATORY I (0-3-1)**
Instruction in static and impact testing of engineering materials. Includes beam deflection and shear center experiments, as well as the application and testing of strain gauges. Required for mechanical engineering majors in B.S. program. Instructor: Staff

**MECH 332(S)  JUNIOR LABORATORY II (0-3-1)**
Instruction in fluid mechanics and thermodynamics. Students work in groups and perform classic experiments in fluid flow with emphasis on boundary-layer theory, flow separation, laminar to turbulent transition, and Bernoulli equation. This laboratory course provides experimental support to MECH 372. Required course for mechanical engineering majors in B.S. program. Instructor: McStravick

**MECH 340  INDUSTRIAL PROCESS LAB (0-3-1)**
Practical experience in, and observation of, selected industrial processes. Must sign up in department office. Open only to mechanical engineering majors. Required for mechanical engineering majors in B.S. program. Instructor: Gesenhues

**MECH 343(F)  MODELING OF DYNAMICS SYSTEMS (4-0-4)**
Energy-based modeling of dynamic systems including particle and rigid body Lagrangian dynamics. Incorporates Bond Graph techniques for energy-based lumped-parameter systems. Includes modeling and simulation of mechanical, electrical, hydraulic, magnetic, and thermal energy systems with emphasis on multi-domain interaction. Instructor: Staff

**MECH 371(F)  FLUID MECHANICS I (3-0-3)**
Introduction to fluid statics and dynamics. Includes the development of the fundamental equations of fluid mechanics and their application to problems of engineering interest. Required for mechanical engineering majors. Prerequisites: MECH 200 and 211 and MATH 212. Instructor: Meade

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
MECH 372(S)  FLUID MECHANICS II (3-0-3)
Continuation of MECH 371. The fundamental principles of fluid mechanics are applied to the study of: potential flow, laminar and turbulent pipe and boundary-layer flow, flow separation, airfoil theory, compressible flow, and turbomachinery. Required for mechanical engineering majors in B.S. program. Prerequisite: MECH 371. Instructor: Collis.

MECH 380(S)  INTRODUCTION TO MECHANICAL EFFECTS IN TISSUES (3-0-3)
Development of a general background in physiology and in advanced mechanics for applications in medicine. Includes bone mechanics in remodelling, cartilage and ligament mechanics, and muscle mechanics, as well as an “on-paper” design project on a subject selected by students. Prerequisites: MECH 211 and 311 or CIVI 300. Instructor: Staff.

MECH 401(F)  MECHANICAL DESIGN APPLICATIONS (3-0-3)
Applications of the principles of mechanical design to the analysis and design of machine elements. Required for mechanical engineering majors in B.S. program. Prerequisite: MECH 311 or CIVI 300. Instructor: Staff.

MECH 403(F)  COMPUTER-AIDED DESIGN (3-0-3)
Investigation of the integration of the computer into the area of design. Includes such subjects as optimization, simulation, finite elements, and expert systems. Required for mechanical engineering majors in B.S. program. Prerequisite: CAAM 211. Instructor: Akin.

MECH 404(S)  SENIOR DESIGN PROJECT (1-9-4)
Project-based course with group or independent design project relating to mechanical engineering topics. Required for mechanical engineering majors in B.S. program; may substitute MECH 407–408. Instructor: McStravick.

MECH 407(F)  MECHANICAL DESIGN PROJECT I (0-9-3)
Team projects to develop designs for mechanical devices. Various areas of interest for designs are available for the student. Instructor: Cunningham.

MECH 408(S)  MECHANICAL DESIGN PROJECT II (0-12-4)
Team production, fabrication, and demonstration of devices developed for MECH 407. Prerequisite: MECH 407. Instructor: Cunningham.

MECH 411(F)  ANALYTICAL DYNAMICS (3-0-3)
Application of energy methods in the study of particle and rigid-body dynamics, electric circuits, electromechanical systems, and continuous dynamic systems. Required for mechanical engineering majors. Prerequisite: MECH 211. Instructor: Ghorbel.

MECH 412(S)  VIBRATIONS (3-0-3)
Analysis of discrete and continuous linear vibrating systems, with emphasis on multi-degree-of-freedom systems. Includes approximate methods. Required for mechanical engineering majors in B.S. program. Prerequisite: MECH 411. Instructor: Spanos.

MECH 417(S)  INTRODUCTION TO FINITE ELEMENT ANALYSIS (3-0-3)
An introduction to finite element analysis by Galerkin’s method and the method of least squares as applied to both ordinary and partial differential equations common in engineering applications. Element interpolations, numerical integration, computational considerations for efficient solutions and post-processing methods. Applications of educational and commercial codes to heat transfer and stress analysis. Prerequisites: MATH 212, CAAM 210 or 211. Also offered at CAAM 417 and CIVI 417. Instructor: Akin.

MECH 420(F)  FEEDBACK CONTROL OF DYNAMIC SYSTEMS (3-0-3)
Linear systems and the fundamental principles of classical feedback control, state variable analysis of linear dynamic systems, stability of linear control systems, time-domain analysis and control of linear systems, root-locus analysis and design and pole-zero synthesis, frequency domain techniques for the analysis and design of control systems. Instructor: Ghorbel.

(F) = fall; (S) = spring
MECH 431(F)  SENIOR LABORATORY I (0-3-1)
Laboratory instruction in heat transfer, thermodynamics, and engine cycles. Students work in small groups doing experiments with emphasis on applied thermodynamics and vibration analysis. Required for mechanical engineering majors in B.S. program. Instrucor: McStravick

MECH 435(F)  ELECTROMECHANICAL DEVICES AND SYSTEMS (3-0-3)
Introduction the physical and engineering aspects of electromechanical sensors and actuators. Includes underlying physical phenomena, practical devices, electrical and mechanical interfacing, and control of electromechanical systems. Prerequisite: ELEC 241, 242, or 243. Also offered as ELEC 435. Instructor: Wise

MECH 452(F)  FINITE ELEMENT METHODS IN FLUID MECHANICS (3-0-3)
Fundamental concepts of finite element methods in fluid mechanics, including spatial discretization and numerical integration in multidimensions, time-integration, and solution of nonlinear ordinary differential equation systems. Advanced numerical stabilization techniques designed for fluid mechanics problems. Strategies for solution of complex, real-world problems. Topics in large-scale computing, parallel processing, and visualization. Prerequisite: MECHE 371 or consent of instructor. Instructor: Tezduyar

MECH 471(F)  APPLICATIONS OF THERMODYNAMICS (3-0-3)
Applications of thermodynamics to various systems of interest in mechanical engineering, with emphasis on energy conversion, refrigeration, and psychrometrics. Required for mechanical engineering majors in B.S. program. Prerequisite: MECH 200. Instructor: Chapman

MECH 472(F)  THERMAL SYSTEMS DESIGN (3-0-3)

MECH 476  FLUID MACHINERY (3-0-3)

MECH 481(S)  HEAT TRANSFER (4-0-4)
Study of the general principles of heat transfer by conduction, convection, and radiation. Includes their application to problems of engineering practice. Required for mechanical engineering majors. Instructor: Bayazitoglu

MECH 482(F)  INTERMEDIATE HEAT TRANSFER (3-0-3)
Continuation of MECH 481. Includes applications to various problems in mechanical engineering. Prerequisite: MECH 481. Instructor: Bayazitoglu

MECH 483(S)  INTRODUCTION TO BIOMEDICAL INSTRUMENTATION AND MEASUREMENT TECHNIQUES (3-0-3)
Review of basic sensors and measurement principles. Includes design problems using operational amplifier circuits (e.g., instrumentation and isolation amplifiers, comparators, timer circuits). Introduction to development of virtual instruments (VIs) using LabView™. Discussion of micro- and macro-biopotential electrodes; cell cytometry; the measurement of blood pressure, blood flow, and heart sounds; temperature; and the principles of electrical safety (e.g., micro- and macro-shock hazards in the clinical environment). Includes discussion of pulmonary instrumentation and medical applications of ultrasound. Two lab exercises and a term project required. Prerequisite: ELEC 481 or permission of instructor. Also offered as ELEC 483 and BIOE 383. Instructors: Clark, Ghorbel

MECH 485(S)  BIOMECHANICS OF HUMAN MOVEMENT (3-0-3)
Application of basic mechanics to the study of human movement. Includes joint mechanics and locomotion analysis, Lagrange and Newton-Euler methods, and basic feedback control, signal analysis, and data acquisition techniques. Prerequisite: MECH 211. Instructor: Ambrose

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
MECH 496(F) ROBOTICS LABORATORY (0-3-1)
Lab for computer vision experiments, the programming of a mobile robot and industrial type PUMA robot, and operation of a Computer Numerical Control (CNC) mill and industrial-size CNC lathe, as well as projects. Corequisite: MECH 498. Also offered as ELEC 496. Instructor: Staff

MECH 498(F) INTRODUCTION TO ROBOTICS (3-0-3)
Introduction to the kinematics, dynamics, and control of robot manipulators and to applications of artificial intelligence and computer vision in robotics. Also offered as ELEC 498. Instructor: Staff

MECH 501(F) ANALYTICAL DYNAMICS (3-0-3)
Graduate version of MECH 411. Term project required. Instructor: Ghorbel

MECH 502(S) VIBRATIONS (3-0-3)
Graduate version of MECH 412. Term project required. Instructor: Spanos

MECH 503(F) COMPUTER-AIDED DESIGN (3-0-3)
Graduate version of MECH 403. Additional work required. Prerequisite: CAAM 211. Instructor: Akin

MECH 507(F) NONLINEAR DYNAMIC SYSTEMS ANALYSIS I (3-0-3)
Introduction to analytical methods describing functions (e.g., singular point and phase plane analysis) and to stability analysis via Lyapunov functions, digital computer simulation methods, parameter estimation, and sensitivity analysis. Includes an introduction to the chaotic behavior of nonlinear dynamic systems. Also offered as ELEC 507. Instructor: Clark, Jr.

MECH 508(S) NONLINEAR DYNAMIC SYSTEMS ANALYSIS II (3-0-3)
Review of the fundamental properties of nonlinear systems. Includes nonlinear ordinary differential equations (e.g., the existence and uniqueness of solution), Lyapunov stability (e.g., stability definitions, Lyapunov’s direct method, invariance theory, stability of linear systems, Lyapunov’s linearization methods, and converse theorems), and input-output stability (e.g., the small gain theorem and passivity theorem), as well as case studies showing applications to nonlinear and adaptive control and robotics. Also offered as ELEC 508. Instructor: Ghorbel

MECH 509(S) DYNAMIC ANALYSIS OF OFFSHORE STRUCTURES (3-0-3)
Description of loads on offshore structures on both a deterministic and probabilistic basis. Includes methods for calculating structural response, using examples of drill strings, marine risers, and fixed and compliant structures. Also offered as CIVI 509. Not offered every year. Instructor: Spanos

MECH 510(S) ELASTODYNAMICS (3-0-3)

MECH 511(S) CONTINUUM MECHANICS I (3-0-3)
Exploration of concepts and general principles common to all branches of solid and fluid mechanics. Includes non-Newtonian fluid mechanics and nonlinear elasticity. Not offered every year. Instructor: Staff

MECH 513(F) THEORY OF ELASTICITY (3-0-3)
Discussion of advanced topics in the linear and nonlinear theory of elasticity. Also offered as CIVI 513. Instructor: Staff

MECH 515(S) STRUCTURAL PLASTICITY, FATIGUE, AND FRACTURE (3-0-3)
Investigation of problems in limit analysis and design, the plastic behavior of structures, the flexure and torsion of prismatic members, fatigue failure, and the brittle fracture of structural components. Also offered as CIVI 515. Not offered every year. Instructor: Staff

(F) = fall; (S) = spring
MECH 517(S)  INTERMEDIATE FINITE ELEMENT ANALYSIS (3-0-3)

MECH 521(S)  FLIGHT MECHANICS I (3-0-3)
Introduction to the performance, stability, and control of flight vehicles. Not offered every year.

MECH 523(S)  PROBABILISTIC STRUCTURAL DYNAMICS (3-0-3)
Introduction to probability theory and random processes. Includes the dynamic analysis of linear and nonlinear structural systems subjected to stationary and nonstationary random excitations, reliability studies related to first excursion and fatigue failures, and applications to earthquake engineering, offshore engineering, and wind engineering. Prerequisites: MECH 412 or CIVI 521 and basic knowledge of probability theory. Also offered as CIVI 523. Not offered 2001–2002. Instructor: Staff

MECH 525(F)  PARALLEL COMPUTING METHODS IN COMPUTATIONAL MECHANICS (3-0-3)
Introduction to analysis techniques in computational mechanics that exploit high-performance computing. Overview of discretization methods, approximation issues, computational costs and capabilities. Memory hierarchies, scalar optimization, cache reuse. Shared-memory programming using compiler directives and data-parallel compilers. Distributed-memory programming using message-passing libraries. Aspects of parallel finite difference and finite element implementations. Prerequisites: Knowledge of FORTRAN or C-programming, and familiarity with the UNIX operating system. Also offered as CAAM 525. Instructor: Behr

MECH 530 HEAT EXCHANGER DESIGN (3-0-3)
Introduction to fundamentals of the thermal design of heat exchangers. Includes the design of a heat exchanger for a specified application. Not offered every year. Instructor: Bayazitoglu

MECH 538(F)  EXPERT SYSTEMS APPLIED TO ROBOTICS (3-0-3)
Introduction to expert systems and fuzzy logic control. Includes robotics and automation. Not offered every year.

MECH 554(F)  FINITE ELEMENT METHODS IN FLUID MECHANICS (3-0-3)
Graduate version of MECH 452. Additional work required. Prerequisites: MECH 371 and MECH 517 or consent of instructor. Instructor: Tezduyar

MECH 563(F)  ENGINEERING APPROACH TO MATHEMATICAL PROGRAMMING (3-0-3)
Study of the minimization of functions of variables that are either unconstrained, subject to equality constraints, subject to inequality constraints, or subject to both equality and inequality constraints. Includes analytical and computational methods. Also offered as CAAM 563. Instructor: Miele

MECH 564(S)  ENGINEERING APPROACH TO OPTIMAL CONTROL (3-0-3)
Study of optimal control theory and calculus of variations. Includes minimization of functionals depending on variables subject to differential constraints, nondifferential constraints, initial constraints, and final constraints, as well as analytical and computational methods. Also offered as CAAM 564. Instructor: Miele

MECH 573(S)  ADVANCED FLUID MECHANICS I (3-0-3)
Examination of conservation equations for viscous compressible fluids. Includes applications to viscous and inviscid flows, as well as simple flows of non-Newtonian fluids. Instructor: Collis

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
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<tbody>
<tr>
<td>MECH 574(S)</td>
<td>ADVANCED FLUID MECHANICS II (3-0-3)</td>
<td></td>
<td>Continuation of MECH 573. Advanced topics in fluid mechanics. Possible topics include: vortex dynamics, acroacoustics, fluid stability theory, receptivity theory. Prerequisite: MECH 573. Not offered every year. Instructor: Collis</td>
</tr>
<tr>
<td>MECH 580(S)</td>
<td>MECHANICAL MODELING AND ANALYSIS OF PHYSIOLOGICAL AND BIOLOGICAL SYSTEMS (3-0-3)</td>
<td></td>
<td>Survey of existing mathematical models for physiological systems. Includes bone remodeling around orthopedic devices, circulatory mechanics, and models for immune response, reaction-diffusion systems, and others. Not offered every year. Instructor: Staff</td>
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<tr>
<td>MECH 585(S)</td>
<td>BIOMECHANICS OF HUMAN MOVEMENT (3-0-3)</td>
<td></td>
<td>Graduate version of MECH 485. Term project required. Instructor: Ambrose</td>
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<tr>
<td>MECH 591(F)</td>
<td>GAS DYNAMICS (3-0-3)</td>
<td></td>
<td>Study of the fundamentals of compressible, one-dimensional gas flows with area change, normal shocks, friction, and heat addition. Includes oblique shocks, Prandtl-Meyer flows expansions, and numerical techniques. Prerequisite: MECH 371. Not offered 2001–2002. Instructor: Meade</td>
</tr>
<tr>
<td>MECH 593</td>
<td>MECHANICAL ENGINEERING PROBLEMS (hours variable)</td>
<td></td>
<td>Approved investigation or design project under the direction of a member of the staff. Only to mechanical engineering students.</td>
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<tr>
<td>MECH 594(F)</td>
<td>AN INTRODUCTION TO AERODYNAMICS (3-0-3)</td>
<td></td>
<td>Development of theories for the prediction of aerodynamic forces and moments acting on airfoils, wings, and bodies. Includes their design applications. Not offered every year.</td>
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<tr>
<td>MECH 595(F)</td>
<td>MODELING TISSUE MECHANICS (3-0-3)</td>
<td></td>
<td>Independent study and seminar course that focuses on modeling the mechanical properties of biological tissues. Data from experiments will be used to refine the predictions of nonlinear mathematical computer models. Designed for juniors, seniors, and graduate students. Laboratory work performed at Baylor College of Medicine and computer work done at Rice. Also offered as BIOE 595. Instructor: Boriek</td>
</tr>
<tr>
<td>MECH 601–605</td>
<td>SPECIAL TOPICS (hours variable)</td>
<td></td>
<td>Instructor: Staff</td>
</tr>
<tr>
<td>MECH 606</td>
<td>GRADUATE SEMINAR (1 hour credit)</td>
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<td>Instructor: Tezduyar</td>
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<tr>
<td>MECH 611(F)</td>
<td>INDEPENDENT STUDY (hours variable)</td>
<td></td>
<td>Instructor: Tezduyar</td>
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<tr>
<td>MECH 612(S)</td>
<td>INDEPENDENT STUDY (hours variable)</td>
<td></td>
<td>Instructor: Tezduyar</td>
</tr>
<tr>
<td>MECH 675(S)</td>
<td>TURBULENCE: THEORY AND MODELING (3-0-3)</td>
<td></td>
<td>Presentation of the theory and modeling of turbulence, including: vortex stretching, energy cascade, Reynolds stresses, law of the wall, Fourier analysis, and statistical methods. The properties of homogeneous turbulence, boundary layers, and free shear layers will be examined using computational and experimental databases. A hierarchy of turbulence models will be presented, including: algebraic, one-equation, two-equation, and full Reynolds stress closures, and Large Eddy Simulation. Prerequisites: MECH 673 and familiarity with partial differential equations, or permission of instructor. Not offered 2001–2002. Instructor: Collis</td>
</tr>
</tbody>
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(F) = fall; (S) = spring
MECH 676(F)  FINITE DIFFERENCE METHODS IN FLUID MECHANICS (3-0-3)
Numerical methods for solving partial differential equations emphasizing the equations of fluid dynamics, including the analysis of stability, convergence, and accuracy for numerical approximations. Topics include: high-order and explicit and implicit finite differences, numerical conservation, explicit and implicit time advancement, iterative methods for solution of linear systems, and methods for solution of nonlinear systems. The mathematical properties of the Navier–Stokes equations will be discussed, including: boundary conditions, flux-vector splitting for compressible flows, and pressure projection methods for incompressible flows. Computational projects will be assigned. Prerequisites: MECH 673, familiarity with linear algebra and partial differential equations. Instructor: Collis

MECH 678(F)  ADVANCED STOCHASTIC MECHANICS (3-0-3)
Presentation of nonlinear random vibrations, statistical linearization, ARMA filters modeling, Monte Carlo simulation, Wiener-Volterra series, time-variant structural reliability, and stochastic finite elements, with emphasis on their usefulness to aerospace, civil, marine, and mechanical applications. Also offered as CIVI 678. Not offered 2001–2002. Instructor: Spanos

MECH 679(F)  APPLIED MONTE CARLO ANALYSIS (3-0-3)
Discussion of probability density and power spectrum based simulation concepts and procedures as well as scalar and vectorial simulations. Presentations on spectral decomposition and digital filter algorithms. Course includes applications from aerospace, earthquake, marine, and wind engineering, and from other applied science disciplines. Also offered as CIVI 679. Instructor: Spanos

MECH 682(S)  CONVECTIVE HEAT TRANSFER (3-0-3)
Rigorous study of the transfer of heat by free and forced convection. Not offered every year. Instructor: Bayazitoglu

MECH 683(F)  RADIATIVE HEAT TRANSFER I (3-0-3)
Rigorous study of the transfer of heat by radiant exchange in the absence of absorbing media. Not offered every year. Instructor: Bayazitoglu

MECH 684(S)  RADIATIVE HEAT TRANSFER II (3-0-3)
Study of radiative transfer in the presence of absorbing, emitting, and scattering media. Includes combined radiation, conduction, and convection, as well as heat transfer in furnaces, fire propagation, and air pollution problems. Not offered every year. Instructor: Bayazitoglu

MECH 698(S)  ADVANCED TOPICS IN ROBOTICS (3-0-3)
Review of conventional robotics control, artificial neural networks for modeling, fuzzy logic control, neurofuzzy modeling and control, genetic algorithms, and genetic programming applications in robotics. Also offered as ELEC 698. Not offered every year.

MECH 699(S)  ADVANCED ROBOTICS LABORATORY (0-3-1)
Not offered every year.

MECH 800  RESEARCH AND THESIS (hours variable)
Management (MGMT)

The Jesse H. Jones Graduate School of Management

MGMT 501(F)  FINANCIAL ACCOUNTING  (2-0-2)
Introduction to the preparation, analysis, and use of corporate financial reports. Covers the basic techniques of financial reporting and analysis from the perspective of managers as well as external users of information such as investors. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 502(S)  COST MANAGEMENT  (1-0-1)
Introduction to the use of financial and cost information by managers in budgeting, resource allocation, pricing, quality control, and other contexts to help managers set goals and monitor and evaluate performance. Required for M.B.A. Prerequisites: MGMT 501, graduate standing, and permission of the school.

MGMT 503(S)  MANAGEMENT CONTROL  (1-0-1)
This course builds on earlier courses on cost management and corporate strategy and focuses on the management control systems that can be used for the effective implementation of strategy. Included topics are the balanced scorecard, stretch budgets, performance evaluation and incentives, organizational and operational controls, and the development of metrics to motivate and evaluate performance. Prerequisites: MGMT 502, graduate standing, and permission of the school.

MGMT 507(S)  LEADERSHIP  (1-0-1)
Explores different perspectives on leadership and management. Considers how leadership and management complement each other and what constitutes effective leadership in business situations. Required for M.B.A. Prerequisites: graduate standing and permission of the school. Not offered 2001–2002.

MGMT 508(S)  POWER, INFLUENCE, AND POLITICS  (1-0-1)
Development of action-oriented skills in organizational politics, personal influence, and impression management, grounded in an integration of intellectual understanding of relevant theories and cases with experiential exercises. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 509(S)  NEGOTIATION  (1-0-1)
Development of analytical and behavioral skills for effective negotiation, including topics such as diagnosing conflict, decision making, adversarial versus cooperative strategies, ethical and cultural factors, and third-party intervention. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 510(F)  ORGANIZATIONAL BEHAVIOR  (1-0-1)
Study of the many factors, which influence how individuals, groups, and teams behave and function in complex organizations and how they can be effectively managed. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 511(S)  ORGANIZATIONAL THEORY AND CHANGE MANAGEMENT  (1-0-1)
Emphasizes understanding what constitutes effective organizational designs; considers both the “macro” designing of change initiatives and the “micro” execution of those initiatives. Required for M.B.A. Prerequisites: graduate standing and permission of the school. Not offered 2001–2002.

MGMT 530(F)  INFORMATION TECHNOLOGY  (1-0-1)
Overview of information technology and its applications in organizations, with emphasis on effectively managing the use of information technology. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 540(F)  MANAGERIAL ECONOMICS  (1-0-1)
We study production and pricing decisions under different assumptions about firm market power. Emphasis is placed on understanding the relevant costs in firm decision-making. Examples are used from marketing and accounting areas. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

(F) = fall; (S) = spring
MGMT 541(S)  ECONOMIC ENVIRONMENT OF BUSINESS  (1-0-1)
Examination of the global economic environment that serves as a backdrop for business decision making, with emphasis on the key macroeconomic policy goals and tools and how they affect exchange rates, interest rates, business cycles, and long-term economic growth. Required for M.B.A. Prerequisites: MGMT 540, graduate standing, and permission of the school.

MGMT 543(F)  FINANCE  (3-0-3)
Introduction to the theory and practice of corporate finance, with emphasis on topics such as valuation, capital budgeting, risk and return, and capital structure. Required for M.B.A. Prerequisites: graduate standing and MGMT 501.

MGMT 560(F)  BUSINESS ETHICS  (1-0-1)

MGMT 561(F)  BUSINESS-GOVERNMENT RELATIONS  (1-0-1)
Study of how public policy influences the private competitive environment of the firm. Examines the major political institutions and actors—Congress, the President, interest groups, the media, and administrative agencies—that shape U.S. public policy. Students analyze business political strategies and formulate several of their own. Required for M.B.A. Prerequisites: graduate standing and permission of the school. Not offered 2001–2002.

MGMT 565(F)  GLOBALIZATION OF BUSINESS  (1-0-1)
Examination of the increasing importance of trade and globalization to U.S. business. Course first focuses on the industrial winners and losers of free trade and protectionism, and then examines the institutions governing trade between the U.S. and its industrial competitors. Finally, the course examines the main challenges for foreign investment in important markets such as Japan, and China’s. Required for M.B.A. Prerequisites: MGMT 561 and permission of the school. Not offered 2001–2002.

MGMT 570(F)  COMPETITIVE STRATEGY  (1-0-1)
Systematic examination of models and techniques used to analyze a competitive situation within an industry from a strategic perspective. Examines the roles of key players in competitive situations and the fundamentals of analytical and fact-oriented strategic reasoning. Examples of applied competitive and industry analysis are emphasized. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 571  STRATEGY FORMULATION AND IMPLEMENTATION  (1-0-1)
Examination of executive formulation and implementation of strategy at corporate and business-unit levels of enterprise, with emphasis on processes involved in formulating, executing, controlling, monitoring, and evaluating strategy of world-class organizations operating in a global economy. Required for M.B.A. Prerequisites: MGMT 570 and permission of the school.

MGMT 574(S)  OPERATIONS MANAGEMENT  (1-0-1)
Introduction to the design and improvement of operations, including manufacturing technologies, quality management and control, and organizational issues in operations. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 580(F)  MARKETING MANAGEMENT  (3-0-3)
Introduction to the key concepts underlying the function of marketing and its interaction with other functions in a business enterprise. Explores marketing’s role in defining, creating, and communicating value to customers. Primarily case-based with capstone simulation exercise, providing a foundation for advanced course work in marketing. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MGMT 595(F)  DATA ANALYSIS (2-0-2)
The ever-increasing capacity of computers to analyze data and the explosion of the amount of data available have resulted in an increased role for data analysis as an aid to business decision-making. This course exposes the student to the most important ideas and methods relevant for data analysis in business context. Emphasizing practical applications to real problems, the course covers the following topics: sampling, descriptive statistics, probability distributions, and regression analysis. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 596(F)  COMMUNICATIONS I (2-0-2)
Introduction to the strategy and practice of management communication. Assignments are based on core courses integrated across the curriculum. Includes individual communication skills assessment and development and team-based oral and written communication instruction. Required for M.B.A. Prerequisites: graduate standing and permission of the school.

MGMT 597(S)  ALP FOUNDATIONS (1-0-1)
This course is designed to provide problem solving, project management, research methods, client relations, and communications and team skills needed for the Action Learning Projects. Students will work in their ALP teams on skill development, and conduct the preliminary industry and firm research, and prepare the preliminary proposal for ALP. Required for M.B.A. Prerequisites: successful completion of MGMT 596 and graduate standing and permission of the school.

MGMT 598(S)  ACTION LEARNING PROJECT I (1-0-1)
ALP I focuses completely on the group project, including interacting with the faculty and corporate liaison to refine the scope and proposal, developing data gathering methods (surveys, interviews, research, etc.), completing research, beginning analysis, conducting progress reviews, and adjusting the project as necessary to ensure satisfactory completion of the project in ALP II. Required for M.B.A. Prerequisites: successful completion of MGMT 597 and graduate standing and permission of the school.

MGMT 599(S)  ACTION LEARNING PROJECT II (4-0-4)
Group project in which students, under the guidance of faculty and a corporate liaison, study the scope of improvements needed, examine a company’s processes, and then provide written recommendations and present findings to senior management. Required for M.B.A. Prerequisites: successful completion of MGMT 598 and graduate standing and permission of the school.

MGMT 601(F)  FINANCIAL STATEMENT ANALYSIS (3-0-3)
Study of how investors, financial analysts, creditors, and managers use financial statement information in evaluating firm performance and in valuing firms. Emphasizes industry and firm-level analysis of accounting information using financial accounting concepts and finance theory. Prerequisites: MGMT 501 and permission of instructor.

MGMT 603(F)  FEDERAL TAXATION (3-0-3)
Survey of the basic federal tax law concepts of business income and deductions, proceeding to tax aspects of different forms of business organizations, emphasizing corporations. Includes sections of tax planning for mergers and acquisitions, compensation planning, and international tax effects. Introduces tax research. Prerequisite: MGMT 501.

MGMT 606(S)  INTERNATIONAL FINANCIAL REPORTING (2-0-2)
Course covers aspects of interest to corporate finance officers and financial statement readers on a number of critical financial reporting issues, including those related to merchandise inventories, fixed and intangible assets, liabilities, shareholders’ equity, business combinations, consolidated financial statements and segment reporting, and the effects of changing prices on net income and rate of return. The strategic role of the newly restructured International Accounting Standards Committee, especially as viewed by the Securities and Exchange Commission and the European Commission, will be explored. Students will be apprised of the sweeping and fundamental changes that are occurring today in the milieu of international financial reporting. Prerequisites: graduate standing or instructor’s permission. Not offered 2001–2002.

MGMT 613(S)  MANAGING FOR CREATIVITY (2-0-2)
Study of the nature of creativity, creative thinking skills and ways to encourage, promote, and effectively manage creativity and innovation in complex organizations. Prerequisites: graduate standing, MGMT 510 and MGMT 511 or equivalent, and permission of the school.

(F) = fall; (S) = spring
MGMT 615(S)  STRATEGIC HUMAN RESOURCE MANAGEMENT (2–0–2)
Exploration of contributions of human resource management to the formulation and implementation of business strategy, with emphasis on obtaining sustainable competitive advantage through human resource management practices. Prerequisites: MGMT 510 and MGMT 511 or permission of instructor.

MGMT 617(S)  MANAGERIAL DECISION MAKING (3–0–3)
Examination of current advances in managerial decision-making theories, processes and practices. Advances featured in the 2002 course include: problem-finding and solving; enhancing decision-making creativity; avoiding cognitive decision traps; using the major decision-making approaches (decision analysis, logical incrementalism, and intuition); understanding team, inclusive, participative, and distributed decision making; and implementing decisions effectively. Prerequisites: graduate standing and instructor’s permission.

MGMT 620(F)  THE NEW ENTERPRISE (2–0–2)
Evaluating opportunities and developing a business concept; analyzing new ventures; pricing, selling, and cost control; attracting stakeholders and bootstrap finance; the legal form of business and taxation; financing, deal structure and venture capital; harvesting value. Emphasis on case method. Prerequisites: MGMT 540. (Note: MGMT 620 and MGMT 621 provide much of the same content and may not both be taken for credit.)

MGMT 621(F)  THE NEW ENTERPRISE AND BUSINESS PLAN DEVELOPMENT (3–0–3)
Evaluating opportunities and developing a business concept; analyzing new ventures; pricing, selling, and cost control; attracting stakeholders and bootstrap finance; the legal form of business and taxation; financing, deal structure and venture capital; harvesting value; developing a business plan. Prerequisites: MGMT 540 (Note: MGMT 620 and MGMT 621 provide much of the same content and may not both be taken for credit.)

MGMT 624(S)  REAL ESTATE INVESTMENT AND DEVELOPMENT (3–0–3)
Identification and analysis of real estate investment and development opportunities. Limited enrollment. Prerequisites: MGMT 540 and permission of instructor.

MGMT 625(S)  CREATIVE ENTREPRENEURSHIP (2–0–2)
This seminar is designed for those who may wish to form their own business. It takes the prospective entrepreneur from the conception stage through the opening of the doors on the first day of business. Students will form teams to make final presentations of their business plans. The winning team of the final presentation will be eligible to participate in the Southwest Business Plan Competition held each spring at Rice University. Numerous invited speakers. Prerequisites: MGMT 540 and MGMT 621.

MGMT 626(S)  VENTURE CAPITAL (3–0–3)
Overview of the venture capital industry, the organization and operation of venture capital funds, investment methodology, monitoring and portfolio liquidation, leveraged investing, and specialized investments. Prerequisites: MGMT 540 and permission of instructor.

MGMT 627(S)  ENTERPRISE EXCHANGE (2–0–2)
The “needs” approach to buying and selling businesses; enterprise valuation; deal and contract structuring; mergers and acquisitions; leveraged buyouts; and consolidating fragmented industries. Limited enrollment. Prerequisites: MGMT 540 and permission of instructor.

MGMT 632(S)  E-BUSINESS (2–0–2)
An overview of electronic commerce, including an examination of methods used to create and manage a business on the Internet. Prerequisite: MGMT 530 or permission of instructor.

MGMT 633(S)  BUSINESS PROCESS REENGINEERING (1–0–1)
The origins of reengineering, current methods for reorganizing a corporation around business processes, reengineering’s relationship to systems development, and the relevance of developing modern information systems around business processes. Prerequisite: MGMT 530 or permission of instructor.

(0–0–0) = class hours/week - lab hours/week - credit hours/semester
MGMT 634(F) INTELLECTUAL CAPITAL (1-0-1)
Exploration of intellectual capital—knowledge, information, intellectual property, experience—that can be put to use to create wealth. This course focuses on intellectual capital asset mapping (human, structural, customer capital), knowledge work, role of collaborative information technologies, and creating networked organizations. Prerequisite: MGMT 530 or permission of instructor.

MGMT 635(F) EMERGING TECHNOLOGIES (2-0-2)
Leaders of 21st-century companies are digital business architects requiring insight into the emerging technology landscape in order to exploit potential disruptions rather than being made irrelevant by them. The goal is not to predict the future, but to make better decisions in the present. What will be the important technologies in two to three years? What will be the impacts of these new technologies on work? Organizations? New value propositions? In this course, we will scan new technologies by looking at innovations in development as well as discuss cases of the recent past to learn from companies that were both successful and not so successful in exploiting them. Prerequisites: graduate standing and permission of the school.

MGMT 636(S) SYSTEMS ANALYSIS AND DATABASE DESIGN (1-0-1)
Modern approaches to software systems analysis and design, and the fundamentals of database design, including the process of data normalization. The course presents the major approaches to systems development, including data-driven analysis, process modeling, and object-oriented analysis and design techniques; including project life-cycle methodologies and newer iterative approaches to systems development. Students gain experience with the major components of structured query language (SQL), including referential integrity and the use of triggers and stored procedures. Prerequisite: MGMT 530 or instructors permission.

MGMT 637(S) COMPETITIVE USES OF INFORMATION TECHNOLOGY (1-0-1)
Examination of the strategic use of information technology to provide a competitive advantage. Exploration of business models, case studies, IT trends and “hot topics”. Prerequisite: MGMT 530 or permission of instructor.

MGMT 638(F) KNOWLEDGE MANAGEMENT (2-0-2)
Overview of knowledge management, a wide set of tools and strategies designed to leverage intellectual capital. This course focuses on knowledge-management strategy formulation, knowledge work process redesign, business intelligence function, drivers for exploring technology frontiers, and outsourcing/insourcing/hybrid trade-off. Students utilize collaborative technologies to support case discussion and class projects. A significant portion of the course is designed around a knowledge management action learning project. Prerequisite: MGMT 530 or instructor’s permission.

MGMT 639(S) E-BUSINESS IN MATURE MARKETS (2-0-2)
Considers the diffusion of electronic commerce applications within the oil and gas sector of the U.S. economy, with particular emphasis on how mature firms are using these technologies to redefine the competitive landscape. Prerequisites: MGMT 530, graduate standing, and permission of the school.

MGMT 640(F) SEMINAR IN INVESTMENTS AND PORTFOLIO ANALYSIS (1-0-1)
This course, conducted in seminar format, will review recent advances in financial theory and research concerning asset pricing and portfolio management. The course will focus on both classic as well as new, cutting edge issues in both investment and corporate finance. Prerequisites: MGMT 645 (previous or concurrent). Recommended: MGMT 647 and/or MGMT 643/644.
MGMT 641(S)  SEMINAR IN INVESTMENTS AND PORTFOLIO ANALYSIS (B) (1-0-1)
This continues the study of financial theory and research concerning asset pricing and portfolio management that was initially started in MGMT 640. The course focuses on classic issues in investment finance as well as new and exciting issues at the cutting edge of finance. The course is conducted in an interactive, seminar-like format and is open to all second year students who satisfy the prerequisites regardless of whether they have or have not taken MGMT 640. Prerequisites: MGMT 543, MGMT 645, graduate standing, and permission of the school.

MGMT 642(F)  FUTURES AND OPTIONS I (1-0-1)
An introduction to forward, futures, option, and swap contracts, including the basic valuation principles, the use of these contracts for hedging financial risk, and an analysis of option-like investment decisions. Recommended for finance students. Prerequisites: MGMT 543, graduate standing, and permission of instructor.

MGMT 643(F)  PORTFOLIO MANAGEMENT I (3-0-3)
Exploration of professional money management by students managing an actual portfolio (the M.A. Wright Investment Fund). Includes all aspects of asset management and performance measurement with emphasis on the class’s effort to evaluate securities and arrive at actual buy/sell decisions. Students are expected to continue to MGMT 644. Limited enrollment (individual applications reviewed by instructor). Prerequisites: MGMT 543 and instructor’s permission.

MGMT 644(S)  PORTFOLIO MANAGEMENT II (3-0-3)
Continuation of MGMT 643: Exploration of professional money management by students managing an actual portfolio (the M.A. Wright Investment Fund). Includes all aspects of asset management and performance measurement with emphasis on the class’s effort to evaluate securities and arrive at actual buy/sell decisions. Limited enrollment. Prerequisites: MGMT 643 or instructor’s permission.

MGMT 645(F)  INVESTMENTS (2-0-2)
Review of classic investment theory, with emphasis on measuring and managing investment risk and return. Includes the development of modern portfolio theory and asset pricing models, an introduction to option and futures contracts, market efficiency, and stock valuation. Recommended for most finance students. Prerequisites: MGMT 543 and permission of school.

MGMT 646(S)  CORPORATE FINANCIAL STRATEGY (2-0-2)
Exploration of value creation, diversification, risk-benefit analysis, tax policy, and present value, with emphasis on practical problems of the corporation. Prerequisite: MGMT 647 and permission of instructor. Enrollment limited.

MGMT 647(F)  CORPORATE FINANCIAL MANAGEMENT (2-0-2)
Examination of corporate investment and financing, with emphasis on valuation methods and how financial policy impacts corporate value. Includes the implications of agency costs, asymmetric information and signaling, taxes, mergers and acquisitions, corporate restructuring, real and embedded options, and financial risk management. Recommended for finance students. Prerequisite: MGMT 543 and MGMT 648 or instructors permission.

MGMT 648(S)  APPLIED FINANCE (2-0-2)
Study of the theory and practice of the fundamental principles in finance emphasizing hands-on experience with a wide range of corporate finance and investments applications. The course provides extensive opportunity to implement finance theory at a practical level and to develop advanced analytical spreadsheet expertise. Prerequisite: MGMT 543. Designated as a first year elective.

MGMT 650(S)  FUTURES AND OPTIONS II (3-0-3)
In-depth analysis of the theory and practice of derivative securities. Develops a general set of valuation, hedging, and risk management techniques which are then applied to the equity, interest rate, currency, and commodity markets. Prerequisites: MGMT 543 and MGMT 642 or permission of instructor.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MGMT 651(S)  FIXED INCOME MANAGEMENT  (3-0-3)
Study of fixed income securities and markets in the U.S. and abroad, with an emphasis on the term structure of interest rates and the pricing of fixed income securities, derivatives, and portfolios. Include Treasury, Corporate Debt, and Mortgage-Backed Securities. Prerequisites: MGMT 645 or MGMT 647 or instructor's permission.

MGMT 652(S)  MERGERS AND ACQUISITIONS  (1-0-1)
This course examines the merger and acquisition process from the perspectives of buyers and sellers. Attention is paid to the internal (make) versus external (buy) growth opportunities and their value consequences. The course also analyzes the M&A transaction process through the study of cases. An additional focus will be the interaction of strategic planning, value planning, financial strategies, and investment decisions. Prerequisite: MGMT 543 and fall finance elective or permission of instructor.

MGMT 653(S)  PRIVATE EQUITY  (1-0-1)
This course provides an overview of the private equity process. Private equity is a rapidly growing, segment of the capital markets that fund mature and growing companies during the pre-public growth phase. Many of these companies are sold to strategic buyers as an alternative to going public. The private equity market also provides capital for LBOs and MBOs. We will examine the private equity market from three perspectives: (1) the organization and operation of private equity funds; (2) the due diligence investigation, negotiation of terms, and valuation analysis necessary to make private equity investments; and (3) exiting private equity investments. Prerequisites: MGMT 543, graduate standing, and permission of the school.

MGMT 654(F)  COMMERCIAL BANKING  (1-0-1)
Role of commercial banks in: Payments and clearing; new money creation, financing enterprise; reacting to monetary policy, credit criteria, services, economic and competitive environment, and global issues. Prerequisites preferred: MGMT 543. Enrollment limit for each class is 25.

MGMT 656(S)  ENERGY DERIVATIVES  (1-0-1)
Examines the physical energy markets, common financial instruments, and their applications, including cross-commodity hedges, dual variable assets, synthetic options, and swaps. Decision criteria for both outright and risk management trading are covered with respect to both fundamental and technical analysis. Eight guest speakers from various companies throughout the industry will participate. Prerequisites: MGMT 642 and MGMT 650 (concurrently).

MGMT 657(F)  INTERNATIONAL FINANCE  (2-0-2)
Exploration of special problems encountered by financial officers in international arenas. Includes the economics of the foreign exchange market, exchange rate, risk management, international portfolio management, capital budgeting for international projects, and international financing strategy. Prerequisite: MGMT 543, and MGMT 642 or permission of instructor.

MGMT 658(S)  APPLIED RISK MANAGEMENT  (1-0-1)
This course focuses on an applied risk management projects. The hands-on experience allows in-depth analysis and understanding of practical risk management issues and exposure to different risk management tools, including Value at Risk and Monte Carlo simulations. The course emphasizes student development and application of skills rather than lectures. Prerequisites: MGMT 543 and MGMT 642.

MGMT 660(F)  PUBLIC—NON PROFIT FINANCIAL MANAGEMENT  (2-0-2)
Introduction to the key elements of financial management in the public and nonprofit sectors: noncommercial accounting, appropriations process, budgeting procedures, social cost-benefit and cost-effectiveness analyses, financial supervision, and related topics. Suitable for students interested in government, health care, nonprofit management, or consulting practice in those areas. Prerequisite: graduate standing or permission of instructor.

MGMT 661(S)  INTERNATIONAL BUSINESS LAW  (3-0-3)
Exploration of U.S. and foreign law as it relates to the law-business interface of importing-exporting trade problems, foreign operations, and foreign investments. Includes the extraterritorial impact of U.S. law, corporate organization, foreign exchange, joint ventures, withdrawal from foreign ventures, and third-country manufacturing. Prerequisite: MGMT 561 or permission of instructor.

(F) = fall; (S) = spring
MGMT 662(F) BUSINESS LAW (3-0-3)
Explores the nuts-and-bolts legal issues in a modern business environment. Purpose is to enhance an awareness and appreciation of business legal problems in order to minimize exposure to liability. Topics include legal challenges in entrepreneurship, business rules and regulations, employer-employee relationships, general business matters, global legal issues, and communicating in a litigious environment. Prerequisite: graduate standing or permission of the school. Not offered 2001–2002.

MGMT 663(S) ADVANCED CORPORATE FINANCE (1-0-1)
This course provides students an in-depth study and analysis of advanced topics in corporate finance such as financial restructuring through mergers and acquisitions and spin-offs and financial engineering such as issue of complex securities. The course requires a solid understanding of the theory and practice of corporate finance. Prerequisites: MGMT 647

MGMT 664(S) BUSINESS FORECASTING (2-0-2)
This course focuses on statistical techniques useful in modeling and forecasting data. Simple linear and multiple regression analysis is developed, including model diagnostic procedures, and model selection and validation. Emphasis is on analysis of time series data. Practical applications are extensively developed on various topics from sales growth to technical trading rules. Prerequisite: MGMT 595.

MGMT 665(S) U.S. BUSINESS AND THE WORLD ECONOMY (3-0-3)
Examination first of the major institutions and policies shaping business in the developed economies of the U.S., Germany, and Japan, demonstrating how each presents a unique managerial environment, largely because of political, social, and institutional differences among the nations. Then the class will study the emerging economies that are increasingly important to the global economy—China, Russia, Eastern Europe, Latin America, and India. Prerequisite: MGMT 565 or permission of instructor.

MGMT 667(F) CORPORATE FINANCE FOR NON-FINANCIAL MANAGERS (2-0-2)
This course focuses on the essentials of corporate finance for students who do not wish to pursue finance-oriented careers. It builds on the basic principles of valuation, financing and budgeting and introduces new issues such as personal taxes, agency problems, real options and mergers and acquisitions. The emphasis of the course is on getting the concepts across through an overview of leading financial theories, empirical evidence and case studies. The course requires an understanding of the basic principles of finance. Prerequisite: graduate standing or permission of the school.

MGMT 668(F) INTERNATIONAL TRADE (3-0-3)
An overview of the economic and political environment of international trade, foreign investment, and competitiveness, focusing on institutions that affect international commerce. Prerequisites: graduate or upper-division undergraduate standing and permission of instructor.

MGMT 669(F) BUSINESS STRATEGY IN THE ENERGY INDUSTRY (1-0-1)
This course is designed to examine business in the energy industry from a strategic standpoint, and provides students with a basic understanding of major business issues in the energy industry, including historical and current events. Emphasis will be on oil and gas, but may also touch on other energy subsets such as utilities. Prerequisites: graduate standing and permission of the school.

MGMT 670(S) STRATEGIC PLANNING AND CREATIVITY (2-0-2)
Examination of strategic planning approaches and methods for managing 21st-century organizations. Emphasizes design and implementation of planning systems that are highly responsive to the dynamic, competitive, stakeholder–influenced planning contexts facing modern organizations. Examples of excellent planning performed by a variety of actual companies and industries are analyzed. Prerequisites: MGMT 570 and instructors’ permission.
MGMT 671(F) CORPORATE CRISIS MANAGEMENT COMMUNICATION (1-0-1)
Studies current methods of crisis communications with practical application utilizing numerous recent real-world case studies. Class will research and prepare strategies, make recommendations, then dissect and analyze each crisis situation, the processes, policies and results. This process will enhance strategic thinking, allow the consideration of pros and cons of alternative courses of action and provide a better understanding of the management decision making process. Class time will be interactive with individual and small group participation. Prerequisites: graduate standing, and permission of the school.

MGMT 673(S) INTERNATIONAL COMMUNICATIONS (3-0-3)
Students taking this course will learn how to assess communication requirements for a broad range of global business situations and develop successful communication strategies appropriate to specific international engagements. Students will also become familiar with a variety of resources available to assist with international and intercultural communication issues. Prerequisites: MGMT 596.

MGMT 674(F) PRODUCTION AND OPERATIONS MANAGEMENT (3-0-3)
Study of the latest approaches to production and operations management, such as flexible manufacturing techniques, just-in-time inventory, and quality control. Prerequisite: MGMT 571 or permission of instructor.

MGMT 675(S) MANAGEMENT OF INNOVATION (1-0-1)
This course is a study in the creation and maintenance of competitive advantage through both incremental and radical innovation. We learn to formulate innovation strategies consistent with a firm’s business strategies. We study processes, management systems, and organizational structures that promote and support innovation. The scope of the course ranges from new product development to business model innovation. We also seek to understand the key drivers of innovation and sources for new ideas. The focus is primarily on large firms. The perspective is that of general management. Readings and case studies are used. Prerequisites: graduate standing and instructor’s permission.

MGMT 676(S) PROJECT MANAGEMENT/PROJECT FINANCE (3-0-3)
Examination of the practice of developing, managing and financing projects, and managing the expectations of project stakeholders. Includes introduction to project alignment methodology, decision analysis, risk analysis and mitigation for project application, and the introduction of the innovative ‘project finance’ discipline which is substantially different from organic corporate financing of projects. Prerequisites: MGMT 571 or instructor’s permission.

MGMT 678(F) U.S. HEALTHCARE MANAGEMENT (3-0-3)
Sequence of offerings that provide an introduction to the business of health care in the U.S. Topics include healthcare systems, health service organizations, and issues relating to the aging population and the technology explosion in health care. Prerequisite: graduate standing or permission of instructor.

MGMT 679(S) COST AND QUALITY IN HEALTHCARE (3-0-3)
Sequence of offering’s that provides further analysis of the business of health care in the U.S. Topics include issues of cost and quality, health care financial management, and national and international solutions to the challenge of providing health care to a population. This class is designed to stand-alone, yet build upon MGMT 678. Prerequisites: graduate standing or instructor’s permission.

MGMT 682(S) PRICING AND DISTRIBUTION (3-0-3)
Study of the paradigm that success of a product lies not only in its acceptance by the end consumer but also in how it is priced and how it reaches the intended consumer, with emphasis on understanding and analyzing the issues, problems, and opportunities characteristic of the channel relationship and of the various faces of pricing. Prerequisites: MGMT 581 and instructor’s permission. Not offered 2001–2002.

(F) = fall; (S) = spring
MGMT 684(F)  PRODUCT MANAGEMENT (3-0-3)
Application of various dimensions of marketing strategy and management to the role of the product manager responsible for all marketing activities of a given product. Prerequisite: MGMT 580.

MGMT 686(S)  MARKETING RESEARCH (2-0-2)
The objective of the course is to provide a comprehensive look at the marketing research process and the associated data collection techniques that can be used to collect information to better manage the marketing mix. Qualitative, survey-based, and experimental research designs will be discussed. Prerequisite: MGMT 580. Designated as an elective for first year graduate students.

MGMT 687(F)  MARKETING STRATEGY (3-0-3)
Considers key elements of marketing strategy namely, segmentation, targeting, positioning, new product introduction, product line policies, and competition. Also treats development of strategic marketing plan. The concepts are discussed through cases, lectures, and a simulation game called MARKSTRAT. Prerequisites: MGMT 580 and permission of instructor.

MGMT 688(F)  BUYER BEHAVIOR (3-0-3)
Drawing on established theoretical frameworks of cognitive and social psychology, this course examines three aspects of consumer behavior: (1) individual, social and cultural influences on consumers, (2) psychological mechanisms of pre- and post-consumption processes such as decision-making and attitude formation and change, and (3) methodological issues in consumer analysis. Implications for strategy as well as marketing program design, measurement and execution are discussed. These topics will be studied through discussion of academic articles, cases and projects. Prerequisites: graduate standing and permission of the school.

MGMT 689(F)  MARKETING MODELS (3-0-3)
Development and analysis of state-of-the-art marketing models that utilize consumer-level data and statistical software packages (SAS, SPSS, and GAUSS) to uncover the various key marketing measures such as price and advertising elasticities, to study the impact of promotions and advertising on sales, to analyze the diffusion of new products such as answering machines and cellular phones, and to do segmentation and market structure analysis. Prerequisites: MGMT 580, MGMT 595, and instructor’s permission.

MGMT 692(F)  INTERNET MARKETING (3-0-3)
This course examines the opportunities and challenges of marketing on the Internet, focusing on three distinct areas: strategy, communications and consumers. First, we consider strategic issues facing internet marketers, and examine emerging and traditional theoretical frameworks and concepts of value. Second, we examine the media characteristics and potential of the digital environment, and compare it to traditional forms of marketing communication. Third, we study demand-side issues, examining consumer behavior in digital environments with implications for marketers. These topics will be studied through cases, discussions of academic and trade articles, and projects. Prerequisites: graduate standing and permission of the school.

MGMT 693(S)  NEW PRODUCT DEVELOPMENT (3-0-3)
Exploration of the critical role of new products within the corporation and in small businesses, focusing on consumer products. Discusses the steps in new product development from ideal generation to business analysis and cross-functional team management to product launch into the marketplace. Students will work in groups to develop their own new products and to prepare the key elements of a new product introduction. Prerequisites: MGMT 580 and permission of instructor.

MGMT 697(S)  ADVERTISING MANAGEMENT (2-0-2)
This course will delve into the strategies needed for developing successful advertising programs, from a manager’s perspective. We will examine all phases of the decision-making process, including: market analysis, budget setting, media selection and integration, and results evaluation. Both traditional and new forms of advertising will be explored. Prerequisites: MGMT 580 and instructor’s permission.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MGMT 699(S)  ADVANCED MARKETING RESEARCH (1-0-1)
In this course we develop a thorough understanding surrounding the design of studies to measure perception and preference in a market. Topics covered include: Projective Techniques, Multidimensional Scaling, Factor Analysis, Conjoint Analysis, and Choice Models. Design of data collection instruments, collection, analysis, and reporting of results are emphasized in a project context. Prerequisites: graduate standing and permission of the school.

MGMT 700  INDEPENDENT STUDY (variable credits)
Independent study or directed reading on an approved project under faculty supervision. Prerequisites: graduate standing and special permission.

MGMT 701(S)  MANAGEMENT CONSULTING (2-0-2)
This course will introduce students to the finer points of management consulting with a focus on succeeding in a career as a management consultant. The course will include discussions on managing client relations and projects, using effective problem solving approaches, working effectively in and leading teams, coaching and mentoring, and appreciating the differences in the field of management consulting. Guest speakers will include consultants from major consulting firms as well as from specialized firms. Prerequisites: graduate standing or instructor’s permission.

MGMT 703(S)  FIELD STUDY IN AMERICAN BUSINESS (0-0-0)
The purpose of this course is to expose students to the “American” business enterprise. This exposure is accomplished through two primary means: (1) readings about the drivers of success in U.S. firms; and (2) an internship with a firm in the United States. The readings are meant to complement much of your course work in the first year of the MBA Program. Prerequisites: graduate standing and permission of the school.

MGMT 704(S)  SPANISH COMMERCE I (3-0-3)
This class focuses on business vocabulary, and places high emphasis on listening and speaking skills. Project presentations, performed in teams, are a final component of the course. Cultural issues are addressed throughout and some grammatical points are reviewed. The course is taught entirely in Spanish. The course prepares students to take the exam for the Business Certificate from Madrid. Prerequisite: one year of Spanish. (Native Spanish speakers can talk to the instructor for an appointment.)

MGMT 705(F)  SPANISH COMMERCE II (3-0-3)
This course covers business topics and is taught entirely in Spanish. Guest speakers in the classes include business executives, academic and government officials who are native speakers of the language. The course exposes students to topics on the current business climate and trends in Latin America and Spain. The students at the end of this course take the exam (in the Jones School with previous approval of Dean Westbrook) for the Business Certificate from Madrid. Prerequisites: MGMT 704, one year Spanish, graduate standing, and permission of instructor.

MGMT 706(F)  MANAGEMENT OF TECHNOLOGY (1-0-1)
This course is a study in the creation and maintenance of competitive advantage through the development and exploitation of technology in both core products and enabling processes. We study the formulation and implementation of technology strategy and seek to understand how new and improved technologies are exploited through innovation. We learn to formulate technology strategy. We explore the appropriate scope and dimensions of technology strategy, forces that shape it, processes for crafting it, and integration of technology strategy into the firm’s corporate and business-level strategies. We also study processes, management systems, and organizational structures that promote effective technology development. The focus is primarily on large firms. The perspective is that of general management. Prerequisite: graduate standing. Not offered 2001–2002.
MGMT 708(S)  STRUCTURAL EQUATIONS MODELS (3-0-3)
This course will explore issues related to measurement and hypothesis testing interpretation in management research and the behavioral sciences. Structural equations methodology (also known variously as simultaneous equation systems, path analysis, and causal modeling) will be used as the primary means of analysis, but the course also considers reliability, validity, explanation, prediction, control, and understanding of individual, group, and organizational phenomena. Examples drawn from management, the social sciences, and psychology will be used to illustrate the approaches and concepts examined. An introductory background in probability and statistics, preferably including multiple regression, will be assumed. Prerequisites: MGMT 595 and instructor’s permission, or STAT 310 or equivalent, STAT 410 or equivalent recommended, or PSYC 502 and PSYC 503, or POLI 502 and POLI 503, or ECON 510 and ECON 511, and graduate standing.

MGMT 710(S)  BUSINESS TO BUSINESS MARKETING (3-0-3)
The objective of this course is to provide the student with an understanding of the various concepts and tools relevant to the marketing of products in a business-to-business setting. Prerequisites: graduate standing and permission of the school.

MGMT 712(S)  DATABASE MARKETING (3-0-3)
This course on database marketing will provide students with an understanding of: (1) The managerial issues related to database marketing and customer relationship management; (2) The importance of integrating internal processes with customer relationship management processes, (3) Technology issues in developing relationship tools such as data architecture, data warehousing, content personalization, etc.; (4) Data models used in understanding and predicting customer behavior for improved customer relationships from large databases, and will provide students with the ability to develop and utilize specific data mining techniques to integrate customer data and business processes. Prerequisites: graduate standing and permission of the school.

MGMT 730(S)  ADVANCED INVESTMENT MANAGEMENT (3-0-3)
Advanced theory and practice in investment management, including security analysis, optimal asset allocation for active fund managers, dynamic portfolio insurance programs, arbitrage-free pricing, bond fundamentals and arbitrage, and interest rate swaps and derivatives. Prerequisites: MGMT 645 or MGMT 647 or instructor’s permission.

MGMT 732(S)  E-BUSINESS: APPLICATIONS AND INFRASTRUCTURE (2-0-2)
Analysis of the technologies and alternative business models for Internet business, including the launch of a new Internet business and Internet extensions of established businesses. We will explore Internet infrastructure components, including the Internet itself, creative and content management tools, Internet application servers, wireless technologies, neutral marketplaces and exchanges, and the integration of these components. Students will study several existing e-Businesses and present their analyses of the strengths and weaknesses of the technologies and business models that are represented. Prerequisite: MGMT 530, or permission of instructor.

MGMT 734  TECHNOLOGY/ENTREPRENEURSHIP INTERNSHIP (2-0-2)
Through exposure to literature on technology entrepreneurship and active involvement with technology entrepreneurs, the student will deepen his/her knowledge of the process of starting, funding, and growing an entrepreneurial company that is based on a science, engineering, software, or e-commerce innovation. Involvement with technology entrepreneurs will be made through the Rice Alliance for Technology and Entrepreneurship (http://www.alliance.rice.edu/). Prerequisites: graduate standing and permission of the school.

MGMT 740(F)  HEALTH SERVICES MANAGEMENT (15-0-15)
Only open to Joint MD/MBA degree program students.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MGMT 750 (F)  ENTREPRENEURIAL MANAGEMENT FOR SCIENCE AND ENGINEERING (3-0-3)
This course is designed for science and engineering students who want to understand the management of new and/or small technology based businesses. The course is taught in modular format to give students insights into how technology oriented firms manage intellectual property, marketing, organization behavior, strategy, accounting and finance.

The concepts covered will be particularly relevant to students who are interested in careers in technology or entrepreneurial ventures. This course is part of a two-class sequence and provides the foundation for students taking “New Venture Creation for Science and Engineering” which is offered in the spring. Prerequisites: Course is offered to senior and non Jones School graduate students only. Cross-reference numbers are CHEM 750 and MSCI 750.

MGMT 751 (S)  NEW VENTURE CREATION FOR SCIENCE AND ENGINEERING (3-0-3)
This course deals with the concepts and theories relevant to new venture creation. Our primary focus is the start-up process with particular emphasis being placed on market issues, intellectual property and entrepreneurial finance. As part of the course we will evaluate the commercial potential of a live technology drawn from the Rice engineering/science community. The concepts covered will be particularly relevant to students who are interested in careers in technology or entrepreneurial ventures. Prerequisites: MGMT 750/CHEM 750/MSCI 750. Course is offered to senior and non-Jones school graduate students only. Cross-reference numbers are CHEM 751 and MSCI 751.

MGMT 760  HTC INTERNSHIP (3-0-3)
The Houston Technology Center (HTC) is working to enhance Houston’ s position as a leading city for technology companies and has established a formal internship program with the Jones Graduate School of Management (JGSM) to give students exposure and experience with high-tech companies within Houston. The program allows students to work directly with high-tech companies and with the HTC itself. The program provides Jones school students the chance to apply the knowledge they gain in the classroom to the real world problems which all start-up companies face. Prerequisites: graduate standing and permission of the instructor.

MGMT 780 (F)  EXTENDED LEARNING LAB (2-0-1)
Directed jointly by the four faculty members responsible for any given mini-semester. The purpose is to apply information from each of that mini-semester’s subject areas in practical, real-world settings, such as cases, simulations, and communication exercises. Prerequisites: graduate standing and permission of the instructor.

MGMT 781 (F)  EXTENDED LEARNING LAB I (2-0-1)
See MGMT 780.

MGMT 782 (F)  EXTENDED LEARNING LAB II (2-0-1)
See MGMT 780.

MGMT 783 (S)  EXTENDED LEARNING LAB III (2-0-1)
See MGMT 780.

MGMT 784 (S)  EXTENDED LEARNING LAB IV (2-0-1)
See MGMT 780.

MGMT 785 (S)  EXTENDED LEARNING LAB VI (2-0-1)
See MGMT 780.

(F) = fall; (S) = spring
## INTERNATIONAL BUSINESS BRIEFING (2-0-2)
The aim of the course is to expose students to the impact of cultures, politics and economics on the operations of enterprise in other regions of the world. The course entails a trip to one or two countries, involving a series of meetings with top-level executives in a variety of settings: indigenous enterprise, joint ventures, strategic alliances, and subsidiaries. The companies will select topics and themes of direct relevance to their plans and business activities, including issues relating to finance, marketing, strategic planning, relations with government, human resource policies, entrepreneurial activity, and the like. The companies will be varied by industry type, size and stage of development and, for expatriate involvement, by different parts of the world from which the expatriates come. The course grade will be based on students’ active involvement in the meetings and on a paper to be submitted within two weeks after the return to Houston, demonstrating an effective understanding of the issues raised and discussed during the trip and how they relate to the students’ future plans and aspirations. Prerequisites: graduate standing and permission of the school.

### EXTENDED LEARNING LAB VII (2-0-1)
See MGMT 780.

### EXTENDED LEARNING LAB VIII (2-0-1)
See MGMT 780.

### EXTENDED LEARNING LAB IX (2-0-1)
See MGMT 780.

### EXTENDED LEARNING LAB X (2-0-1)
See MGMT 780.

### INTERNATIONAL EXECUTIVE BRIEFING (2-0-1)
The object of the course is to enhance students’ awareness and understanding of the international dimensions of their studies and work. Consists of a 10-day trip to meet with executives in companies and firms in Latin America, Europe, or Asia, followed by preparation of a paper in which the students draw insights from the visits and relate the knowledge thus acquired to their professional goals. Additional fee required. Prerequisites: graduate standing and permission of the school.

### FINANCIAL ACCOUNTING (2-0-2)
Introduction to the preparation, analysis, and use of corporate financial reports. Covers the basic techniques of financial reporting and analysis from the perspective of managers as well as external users of information such as investors. Prerequisites: graduate standing and permission of the school.

### COST MANAGEMENT (2-0-1)
Provides general managers with an understanding of the design and function of a firm’s management accounting system to enable them to become active consumers of accounting information. The course describes how accounting information can assist managers in making decisions about products, services, and customers; improving existing processes; and aligning organizational activities toward long-term strategic objectives. Prerequisites: graduate standing and permission of the school.

### LEADERSHIP (2-0-1)
Covers key elements of sound leadership theory and practice in work groups, work teams, and organizations. Prerequisites: graduate standing and permission of the school.

### ORGANIZATIONAL BEHAVIOR (2-0-1)
Application of psychology and behavioral science tools to solving managerial problems in complex organizations. Topics include motivation, decision making, and team dynamics. Prerequisites: graduate standing and permission of the school.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MGMT 811(S)  CHANGEMANAGEMENT (2-0-1)
Examination of practical challenges in planning and in implementing organizational change. Topics include organizational transformation, continuous change, choices in organizational change initiatives, leadership of organizational change and transformation at different organizational levels, and motivation and resistance around change efforts. Prerequisites: graduate standing and permission of the school.

MGMT 830(F)  INFORMATION TECHNOLOGY (2-0-1)
The role and impact of information technology (IT) in organizations; strategic uses of IT, the Internet, and electronic commerce; outsourcing versus insourcing of IT activities; technology directions and management of the IT function. Prerequisites: graduate standing and permission of the school.

MGMT 835(S)  MANAGING KNOWLEDGE IN THE INFORMATION AGE (2-0-1)
Examination of knowledge management, a wide set of tools and strategies designed to leverage intellectual capital. This course focuses on knowledge-management strategy formulation, knowledge work process redesign, business intelligence function, drivers for exploring technology frontiers, and outsourcing/insourcing/hybrid trade-offs. Students utilize collaborative technologies to support case discussion and class projects. Prerequisites: graduate standing and permission of the school.

MGMT 840(F)  MANAGERIAL ECONOMICS (2-0-2)
Part I first covers the basics of consumer demand and then focuses on the relevant costs in making production and pricing decisions, with an emphasis on seeking economic rather than accounting profit. Part II explores incentive problems in decision-making within firms and studies the relation between decision rights, compensation, and performance evaluation in productive organizational design. Prerequisites: graduate standing and permission of the school.

MGMT 841(F)  THE ECONOMIC ENVIRONMENT OF BUSINESS (2-0-1)
Examination of the global economic environment that serves as a backdrop for business decision making, with emphasis on the key macroeconomic policy goals and tools and how they affect exchange rates, interest rates, business cycles, and long-term economic growth. Prerequisites: graduate standing and permission of the school.

MGMT 843(S)  MANAGERIAL FINANCE (2-0-2)
The focus is on using discounted cash flow analysis to value assets. Both net present value (NPV) and internal rate of return (IRR) measures are studied, with potential pitfalls in the use of each being emphasized. There is considerable emphasis on understanding how to determine a firm’s cost of capital as well as that of a division, with applications to capital budgeting and to performance evaluation using residual income measures. Prerequisites: graduate standing and permission of the school.

MGMT 860(S)  BUSINESS ETHICS (2-0-1)
Examination of moral reasoning, social responsibility, stakeholder management, and values management in a leadership context. Prerequisites: graduate standing and permission of the school.

MGMT 861(F)  BUSINESS-GOVERNMENT RELATIONS (2-0-1)
Study of the governmental institutions that surround the business environment. Strategies for influencing and responding to governmental actors are explored as well as other issues related to business-government relations. Prerequisites: graduate standing and permission of the school.

MGMT 865(F)  GLOBALIZATION OF BUSINESS (2-0-1)
Examination of international trade and foreign direct investment and the rules that govern them. Particular focus is upon the multilateral institutions supporting trade such as the World Trade Organization. Other aspects consider the political economy of unilateral U.S. trade and investment policies. Prerequisites: graduate standing and permission of the school.

(F) = fall; (S) = spring
MGMT 870(F) COMPETITIVE STRATEGY (2-0-1)
Systematic examination of models and techniques used to analyze a competitive situation within an industry from a strategic perspective. Examines the role of key players in competitive situations and the fundamentals of analytical and fact-oriented strategic reasoning. Examples of applied competitive and industry analysis are emphasized. Prerequisites: graduate standing and permission of the school.

MGMT 871(S) STRATEGY FORMULATION AND IMPLEMENTATION (2-0-1)
The course focuses on formulating and implementing effective organizational strategy, including competitive positioning, core competencies and competitive advantage, cooperative arrangements, and tools for implementation. Prerequisites: graduate standing and permission of the school.

MGMT 874(F) TECHNOLOGY AND OPERATIONS MANAGEMENT (2-0-2)
Development of skills and concepts needed to manage the effective integration of technology, people, and operations. Topics include the development and manufacture of products as well as the creation and delivery of services. Prerequisites: graduate standing and permission of the school.

MGMT 880(F) MARKETING (2-0-2)
Introduction to the key concepts underlying the function of marketing in a business enterprise. Includes lectures and an extensive analysis of marketing management cases. Prerequisites: graduate standing and permission of the school.

MGMT 895(F) DATA ANALYSIS (2-0-2)
Examination of the most important ideas and methods relevant for data analysis in a business context. Emphasizing practical applications to real problems, the course covers the following topics: sampling, descriptive statistics, probability distributions, and regression analysis. Prerequisites: graduate standing and permission of the school.

MGMT 901(F) FINANCIAL STATEMENT ANALYSIS (2-0-1)
Study of how investors, financial analysts, creditors, and managers use financial statement information in evaluating firm performance and in valuing firms. Emphasizes industry and firm-level analysis of accounting information, using financial accounting concepts and finance theory. Prerequisites: graduate standing and permission of the school.

MGMT 909(F) NEGOTIATION AND CONFLICT RESOLUTION (2-0-1)
Development of analytical and behavioral skills for resolving conflict and negotiating successfully in a business context. Topics include analysis of your negotiation counterpart, adversarial versus cooperative bargaining, influence tactics, and ethics. Prerequisites: graduate standing and permission of the school.

MGMT 911(F) ORGANIZATIONAL ARCHITECTURE AND COMPETITIVE ADVANTAGE (2-0-1)
The course addresses the fundamental elements of the organization’s architecture and effective organizational design. Topics include aligning the formal structure with internal and external influences, the role of organizational culture, and balancing flexibility with control. Prerequisites: graduate standing and permission of the school.

MGMT 912(S) COMPETITIVE ADVANTAGE THROUGH PEOPLE (2-0-1)
Study of key challenges in effectively managing people. The need for flexibility in organizations. Managing for creativity and innovation. Work-force diversity. Prerequisites: graduate standing and permission of the school.

MGMT 919(S) CORPORATE GOVERNANCE (2-0-1)
Critical examination of director selection, board decision-making processes, chief executive officer evaluation and compensation, the board’s role in strategic planning, the impact of external constituencies of governance, and legal aspects of governance. Prerequisites: graduate standing and permission of the school.
MGMT 921(S) ENTREPRENEURSHIP: NEW VENTURES (2-0-1)
Developing new venture ideas. The economics of new ventures. Attracting stakeholders. Intrapreneurship and harvesting values. Prerequisites: graduate standing and permission of the school.

MGMT 927(S) ENTREPRENEURSHIP: ENTERPRISE EXCHANGE (2-0-1)
The “needs” approach to buying and selling businesses. Enterprise valuation and deal and contract structuring. Leveraged buyouts and consolidating fragmented industries. Prerequisites: graduate standing and permission of the school.

MGMT 947(S) CORPORATE FINANCE (2-0-1)
Understanding the meaning of “efficient markets”; determinants of corporate debt and dividend policies; raising capital and the role of venture capitalists as well as investment and commercial bankers. Prerequisites: graduate standing and permission of the school.

MGMT 948(F) ECONOMIC INCENTIVES IN ORGANIZATIONS (2-0-1)
This course deals with incentive conflicts within organizations and how they affect shareholder value. A framework is presented for constructing a productive organizational architecture that assigns decision rights to the appropriate employees, evaluates appropriately their efforts, and rewards them based on performance.

MGMT 950(F) FINANCIAL RISK MANAGEMENT (2-0-1)
An introduction to forward, futures, option, and swap contracts, including the basic valuation principles, the use of these contracts for hedging financial risk, and an analysis of option-like investment decisions. Prerequisites: graduate standing and permission of the school.

MGMT 952(S) MERGERS AND ACQUISITIONS (2-0-1)
Motivation, valuation, and strategy in the process of merging established businesses or evaluating/acquiring other enterprises. Prerequisites: graduate standing and permission of the school.

MGMT 956(S) CORPORATE FINANCIAL STRATEGY (2-0-1)
This course treats practical finance problems from the point of view of the corporate financial officer. The emphasis is on the interface between theory and practice with a focus on decisions that are practicable and able to be implemented. The focus is on locating the useful questions in real situations and establishing reasoned and reasonable solutions which in turn may lead to successively more fundamental questions and insights. Subjects will include risk definition, risk measurement, risk management, financial analysis within the corporation, financial analysis within the industry, valuation, and capital budgeting. Prerequisites: graduate standing and permission of the school.

MGMT 957(F) INTERNATIONAL FINANCE (2-0-1)
Exploration of issues encountered in international financial arenas, including foreign exchange rate risk management, capital budgeting for international projects, and international financing strategies. Prerequisites: graduate standing and permission of the school.

MGMT 961(S) BUSINESS LAW (2-0-1)
The course addresses various practical aspects of business law, including contracts, employment law, product liability, and the Foreign Corrupt Practices Act. Prerequisites: graduate standing and permission of the school.

MGMT 970(S) STRATEGIC PLANNING AND CREATIVITY (2-0-1)
Examination of current strategic planning approaches and methods designed to develop strategic planning skills and help managers make better applied decisions. Emphasizes design and implementation of effective strategic planning systems. Examples of excellent planning by a variety of actual companies and industries are analyzed. Prerequisites: graduate standing and permission of the school.

(F) = fall; (S) = spring
MGMT 980(F)  CUSTOMER ANALYSIS AND SATISFACTION (2-0-1)
Introduction to major concepts in the analysis of consumer behavior, with emphasis on managerial implications. Includes both individual and organizational buying behavior as well as the analysis of consumption and post-purchase aspects. Prerequisites: graduate standing and permission of the school.

MGMT 982(F)  INTERNET MARKETING (2-0-1)
The course focuses on marketing communications and advertising through the Internet, with an emphasis on developing optimal media mixes and understanding consumer behavior in interactive environments. Prerequisites: graduate standing and permission of the school.

MGMT 984(F)  PRODUCT AND SERVICES PLANNING (2-0-1)
Application of various dimensions of marketing strategy and management to the role of the product manager responsible for all marketing activities of a given product. Prerequisites: graduate standing and permission of the school.

MGMT 986(S)  MARKETING RESEARCH (2-0-1)
Examination of the marketing research process and its application to the solution of marketing problems. Focuses on the development and evaluation of marketing research studies that address managerial issues pertaining to the marketing mix. Prerequisites: graduate standing and permission of the school.

Military Science (MILI)
Military Science Department/University of Houston

FIRST YEAR

MILI 106  ADVANCED PHYSICAL FITNESS COURSE (0-3-1)
Prerequisite: must be ROTC cadet. Physically demanding. Develops skills through team competition. Land navigation, assembly/disassembly of weapon, tactics, and assembly of one-man rope bridge. Students are also required to attend fitness training five times a week. Participants compete for Ranger Challenge slots. Selected cadets compete against teams from other schools at the annual Ranger Challenge competition.

MILI 109  PHYSICAL READINESS TRAINING CR. 1 (0-3-1)
Open to all students. Utilizes army fitness techniques; develops strength, flexibility, and endurance. Develops self-confidence through leadership training and physical activities.

MILI 121(F)  INTRODUCTION TO ROTC (1-2-1)
Learn fundamental concepts of leadership in both classroom and outdoor laboratory environments. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, first aid, and basic marksmanship. Develop communication skills to improve individual performance and group interaction. One-hour classroom session and a required lab. No military commitment is required for attending this course.

MILI 122(S)  INTRODUCTION TO LEADERSHIP (1-2-1)
Learn and apply principles of effective leadership. Reinforce self-confidence through participation in physically and mentally challenging training with upper-division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate ethical values to the effectiveness of a leader. Includes training on survival skills and self-defense. Consists of a one-hour classroom session and a required lab. No military commitment is required for attending this course.

MILI 123  LEADERSHIP LABORATORY (0-2-0)
Corequisite: MILI 121 (fall) and 122 (spring).

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MILI 201(F)  MILITARY LEADERSHIP DEVELOPMENT (2-2-2)
Characteristics of leadership, problem analysis, decision-making, oral presentations, first aid,
small unit tactics, land navigation, basic radio communication, marksmanship, fitness training,
and rappelling. Fitness training required two times per week in addition to class and lab.

MILI 202(S)  MILITARY LEADERSHIP DEVELOPMENT (2-2-2)
Continuation of MILI 201. Prerequisite: MILI 201. Corequisite: MILI 203.

MILI 203  LEADERSHIP LABORATORY (0-2-0)
Corequisite: MILI 201 (fall) and 202 (spring).

SECOND YEAR

MILI 2810   BASIC CAMP
(UH)
Prerequisite: Approval of the department chair. No military obligation is associated with this course.
Students will not receive credit for both basic course work and basic camp. Six-week off-campus
field training practicum. Introduces students to the army and leadership.

THIRD YEAR

MILI 3198/3298/ SPECIAL PROBLEMS
3398 (UH)
Prerequisite: junior standing and consent of department chair.

MILI 301(F)  ADVANCED MILITARY SCIENCE (3-2-3)
Instruction in leadership, the preparation of combat orders, principles of military instruction, small
unit tactics, and tactical communications, with emphasis on preparing students for advanced camp.
Includes physical fitness training three times per week in addition to lab. Prerequisite: MSCI 2220
(UH) or permission of department chair.

MILI 302(S)  ADVANCED MILITARY SCIENCE (3-2-3)
Continuation of MILI 301. Prerequisite: MILI 301.

MILI 3491(S)  SUMMER FIELD TRAINING
(UH)
Off-campus field training practicum stressing application of leadership management with emphasis
on tactical and special military skills. Places students in demanding and stressful leadership situ-
atations. Prerequisite: MSCI 3320 (UH) or consent of the department chair.

MILI 304  LEADERSHIP LABORATORY (0-2-0)
Corequisite: MILI 301 (fall) and 302 (spring).

MILI 401(F)  ADVANCED MILITARY SCIENCE (3-2-3)
Study of leadership and command, military law, administrative/staff operations and procedures,
the dynamics of the military team, training management, ethics, and professionalism. Includes
physical fitness training three times per week in addition to lab. Prerequisite: MSCI 3320 (UH)
or permission of department chair.

MILI 402(S)  ADVANCED MILITARY SCIENCE (3-2-3)
Continuation of MILI 401. Prerequisites: MSCI 3320 (UH) and 401 or permission of department
chair.

(F) = fall; (S) = spring
Materials Science and Engineering (MSCI)

The George R. Brown School of Engineering/Department of Mechanical Engineering and Materials Science

MSCI 301 MATERIALS SCIENCE (3-0-3)
Introduction to the science of solid materials. Includes metals, ceramics, plastics, and semiconductors, as well as the properties of solid materials from atomic and macroscopic points of view. Required for mechanical engineering and materials science and engineering majors. Prerequisites: MATH 101, CHEM 101, and PHYS 101. Instructor: Yakobson

MSCI 303(S) MATERIALS SCIENCE JUNIOR LAB (0-3-1)
Selected lab experiments in materials science. Open only to junior materials science and engineering majors. Required for materials science and engineering majors. Instructor: Staff

MSCI 304(F) APPLIED MATERIALS ENGINEERING (0-3-1)
Practical application of the basic principles of materials science. Includes case studies of failures under a variety of conditions, as well as topics in the fabrication selection and heat treatment of metallic materials. Co-/Prerequisite: MSCI 301. Instructor: Cunningham

MSCI 311(F) INTRODUCTION TO DESIGN (1-9-4)
Introduction to fundamental aspects of design through semester-long group projects. Open to nonmajors only with permission of instructor. Required for materials science and engineering majors. Prerequisite: MSCI 301. Instructor: Barrera

MSCI 401(F) THERMODYNAMICS AND TRANSPORT PHENOMENA IN MATERIALS SCIENCE (4-0-4)
Unified presentation of the kinetics and thermodynamics of mass and energy transport. Includes heterogeneous equilibrium, diffusion in solids, and heat transfer, as well as their application to engineering design. Required for materials science and engineering majors. Instructor: McLellan

MSCI 402(F) MECHANICAL PROPERTIES OF MATERIALS (3-0-3)
Survey of the mechanical properties of solid materials. Includes basic mechanics, elasticity, plasticity, fracture, fatigue, creep, hardening mechanisms, mechanical testing, and structure-property relationships. Required for materials science and engineering majors. Prerequisite: MATH 211. Instructor: Brotzen

MSCI 404(S) MATERIALS ENGINEERING AND DESIGN (2-6-4)
Exploration of technological aspects of materials selection, design, failure, and analysis. Lab time spent in an industrial setting. Open to nonmajors only with permission of instructor. Required for materials science and engineering majors. Prerequisite: MSCI 301. Instructor: Cunningham

MSCI 406(S) PHYSICAL PROPERTIES OF SOLIDS (3-0-3)
Survey of the electrical, magnetic, and optical properties of metals, semiconductors, and dielectrics based upon elementary band theory concepts. Required for materials science and engineering majors. Prerequisite: MATH 211. Not offered every year. Instructor: Yakobson

MSCI 411(S) METALLOGRAPHY AND PHASE RELATIONS (3-0-3)
Study of microstructures that may be observed in metals and alloys, optical metallography (in addition to more sophisticated techniques), and the relationships between structural properties and failures. Required for materials science and engineering majors. Prerequisite: MSCI 301. Instructor: McLellan

MSCI 415(S) CERAMICS AND GLASSES (3-0-3)
Fundamentals of ceramic and glassy materials, including phase relations, theoretical properties, structure, bonding, and design. Prerequisite: MSCI 301. Instructor: Stemmer

MSCI 500 MATERIALS SCIENCE SEMINAR (0 hours credit)
Biweekly seminars on selected topics in materials science. Required for materials science and engineering majors. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MSCI 501  MATERIALS SCIENCE SEMINAR (1-0-1)
See MSCI 500. Required for materials science and engineering majors. Instructor: Staff

MSCI 523(S)  PROPERTIES, SYNTHESIS, AND DESIGN OF COMPOSITE MATERIALS (3-0-3)
Study of the science of interfaces and the properties that govern their use in composite materials. Not offered every year. Instructor: Staff

MSCI 535(F)  CRYSTALLOGRAPHY AND DIFFRACTION (3-0-3)
Study of crystals by x-ray and electron diffraction and electron microscopy. Includes basic diffraction theory and methods for the characterization of structure and the composition of materials. Required for materials science and engineering majors. Prerequisite: MSCI 301. Also offered as CHEM 535 and PHYS 535. Instructor: Stemmer

MSCI 537(F)  MATERIALS SCIENCE SENIOR LAB (0-3-1)
Selected lab experiments in materials science. Required for materials science and engineering majors. Prerequisite: MSCI 303. Instructor: Stemmer

MSCI 541(S)  PHYSICAL METALLURGY (3-0-3)
Survey of the fundamentals of solidification, alloying, and heat treatment. Includes the mechanical and nonmechanical properties of metallic systems from atomic and electronic theory. Prerequisite: MSCI 301. Not offered every year.

MSCI 550(S)  TIME-DEPENDENT PLASTICITY (3-0-3)
Survey of fundamental concepts in creep and creep rupture in solids. Includes a phenomenological overview and presentation of mechanistic theories. Prerequisite: MSCI 402 or permission of instructor. Not offered every year.

MSCI 561(F)  ADVANCED METALLURGICAL LABORATORY I (0-4-1)
Research and design in the field of materials and metallurgy. Prerequisite: permission of instructor.

MSCI 562(S)  ADVANCED METALLURGICAL LABORATORY II (0-4-1)
Continuation of MSCI 561. Prerequisite: permission of instructor.

MSCI 569(S)  CORROSION SCIENCE AND ENGINEERING (3-0-3)
Survey of the principles and theories of corrosion, corrosion testing, and the selection of materials for corrosion prevention. Prerequisite: MSCI 301. Not offered every year. Instructor: Cunningham

MSCI 570(F)  SENIOR DESIGN THESIS PROJECT (2-0-2 each semester)
MSCI 571(S)
A design project in the materials science field will be undertaken by the student in close collaboration with at least one materials science faculty member.

MSCI 593(F)  POLYMER SCIENCE AND ENGINEERING (3-0-3)
Basic concepts in macromolecular chemistry and their application in the synthesis and chemical modification of polymers. Prerequisites: CHEM 211-212. Also offered as CENG 593. Instructor: Tour

MSCI 594(S)  PROPERTIES OF POLYMERS (3-0-3)
Study of the molecular organization and physical properties of polymeric materials. Includes elastomeric, semicrystalline, and glassy polymers, as well as the processing and technology of polymeric systems. Also offered as CENG 594. Instructor: Staff

MSCI 596  CHEMISTRY OF ELECTRONIC MATERIALS (3-0-3)
A review of the chemical processes involved in the manufacture of microelectronic chips, including crystallization, purification, oxidation, thin film methods, lithography, and ceramic processing. Open to undergraduates by special permission only. Also offered as CHEM 596. Instructor: Barron

(F) = fall; (S) = spring
MSCI 603 TECHNOLOGY MANAGEMENT FOR SCIENTISTS AND ENGINEERS (3-0-3)
This course is intended for graduate students in science and engineering who are interested in gaining an understanding of the business of technology. Particular emphasis is placed on financial and human resources management, business strategy, patents, trademarks, and licenses, as well as on new business start-up and development. Also offered as CHEM 603. Instructor: Barron

MSCI 609(S) FRACTURE MECHANICS (3-0-3)
Study of the theory of elasticity and plasticity pertinent to fracture. Not offered every year. Instructor: Staff

MSCI 610(F) CRYSTAL THERMODYNAMICS (3-0-3)
Discussion of potentials and third-order elastic constants. Includes the lattice dynamics of harmonic phonons and anharmonic perturbation expansion, as well as the contribution of electrons to the thermodynamic quantities. Not offered 2001–2002. Instructor: Yakobson

MSCI 611(F) INDEPENDENT STUDY (hours variable)

MSCI 612(S) INDEPENDENT STUDY (hours variable)

MSCI 614/615 SPECIAL TOPICS (hours variable)

MSCI 623(F) ANALYTICAL SPECTROSCOPIES: TOOLS IN MATERIALS SCIENCE (3-0-3)
Exploration of concepts in vacuum technology, thin film metallization, x-ray photoelectron spectroscopy, Augen electron spectroscopy, and x-ray absorption fine structure. Includes lab sessions on XPS and EXAFS analysis. Prerequisites: MSCI 402 and 535 (or equivalent). Not offered every year. Instructor: Staff

MSCI 634(F) THERMODYNAMICS OF ALLOYS (3-0-3)

MSCI 635(S) TRANSFORMATION IN ALLOYS (3-0-3)
Study of diffusion in metals and alloys. Includes the mechanism and phenomenology of diffusion-controlled transformations, precipitation from saturated alloys and liquid solutions, and transformations in heat-treated alloys. Not offered every year. Instructor: Staff

MSCI 645(S) THIN FILMS (3-0-3)
Exploration of materials issues relevant to thin films. Includes techniques for vapor phase deposition of thin films (e.g., evaporation, sputtering, and chemical vapor deposition), epitaxy, generation of thin film defects, strain, growth anisotropy, and grain structure, as well as electrical, optical, and magnetic properties of thin film materials and structures. Also offered as ELEC 645. Not offered every year. Instructor: Rabson

MSCI 666(S) CONDUCTION PHENOMENA IN SOLIDS (3-0-3)
Survey of fundamental aspects of electron and energy transport in conductors, semiconductors, and insulators. Prerequisite: MSCI 406 (or equivalent). Not offered every year. Instructor: Staff

MSCI 750(F) TECHNOLOGY MANAGEMENT FOR SCIENTISTS AND ENGINEERS (3-0-3)
This course is intended for graduate students in science and engineering who are interested in gaining an understanding of the business of technology. Particular emphasis is placed on financial and human resources management, business strategy, patents, trademarks, and licenses, as well as new business start-up and development. Also offered as CHEM 750, MGMT 750.

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
Music (MUSI)

The Shepherd School of Music

Note that courses are listed by section according to content.

I. COMPOSITION

MUSI 303  UNDERGRADUATE COMPOSITION SEMINAR (hours variable)
For music composition majors. Instructors: Applebaum, Brandt, Gottschalk, Jalbert, Lavenda, Chen

MUSI 305  COMPOSITION ELECTIVE (3-0-3)
For music majors not concentrating in composition. Prerequisite: permission of instructor.

MUSI 307  COMPOSITION FOR NONMAJORS (3-0-3)

MUSI 401  COMPOSITION FOR MAJORS (3-0-3)
Creative composition using contemporary art music vocabularies, supported by extensive performance, listening, and analysis of related scores. Prerequisite: permission of instructor. Instructors: Applebaum, Gottschalk, Jalbert, Lavenda, Chen

MUSI 403(F)  ELECTRONIC MUSIC COMPOSITION I (3-3-3)
Introduction to computer-controlled M.I.D.I. sound synthesis systems. Includes sequencing, multitrack tape recording, and outboard sound and signal processing. Instructor: Staff

MUSI 404(S)  ELECTRONIC MUSIC COMPOSITION II (3-3-3)
Continuation of MUSI 403. Prerequisite: MUSI 403. Instructor: Staff

MUSI 444(S)  PRACTICUM IN CONTEMPORARY MUSIC COMPOSITION AND PERFORMANCE (1 hour credit)
Composition of a piece for an ensemble formed from enrolled performers who rehearse and coach the piece as the enrolled composer writes it and who perform it on various recitals. Open to music majors only. Instructors: Lavenda, Applebaum

MUSI 505  MULTIMEDIA AND COMPUTERS (1-6-3)
Prerequisite: Permission of instructor. Instructor: Gottschalk

MUSI 601  COMPOSITION FOR MAJORS—ADVANCED AND GRADUATE STUDENTS (3-0-3)
Instructors: Applebaum, Gottschalk, Jalbert, Lavenda, Chen

MUSI 603  GRADUATE COMPOSITION SEMINAR (hours variable)
Instructors: Applebaum, Gottschalk, Jalbert, Lavenda, Chen

MUSI 605  ADVANCED ELECTRONIC AND COMPUTER MUSIC SYSTEMS I (3-3-3)
Use of sound-processing and sound-synthesis software. Digital noise reduction of analog sound files. Sampling, recording, and manipulating sounds from various sources. Instructor: Staff

MUSI 606  ADVANCED ELECTRONIC AND COMPUTER MUSIC SYSTEMS II (3-0-3)
Continuation of MUSI 605. Prerequisite: MUSI 605. Instructor: Staff

(F) = fall; (S) = spring
MUSI 707  DOCTORAL INDEPENDENT STUDY IN COMPOSITION (3-0-3)
Composition of professional-level major work. Intended primarily for conducting majors. Permission of instructor. *Instructors: Applebaum, Chen, Gottschalk, Jalbert, Lavenda*

**II. THEORY**

MUSI 117  FUNDAMENTALS OF MUSIC I (3-0-3)
Instruction in the rudiments of pitch and duration, as well as study of scales, chord structure tonality, and forms. For nonmusic majors with minimal music preparation. *Instructor: Staff*

MUSI 118(S)  FUNDAMENTALS OF MUSIC II (3-0-3)

MUSI 211(F)  THEORETICAL STUDIES I (3-0-3)
Intensive review of fundamentals of harmony, melody, and rhythm. Open to music majors only. Required for music majors. *Instructor: Lavenda*

MUSI 212(S)  THEORETICAL STUDIES II (3-0-3)
Discussion, analysis, and creative application of theoretical concepts and vocabulary from 1800 to the present, with emphasis upon tonal harmony and counterpoint. Open to music majors only. Required for music majors. *Instructor: Lavenda*

MUSI 311(F)  THEORETICAL STUDIES III (3-0-3)
Study of late classical and Romantic music. Includes chromatic harmony, and analysis of selected major works. Open to music majors only. Required for music majors. *Instructor: Al-Zand*

MUSI 312(S)  THEORETICAL STUDIES IV (3-0-3)
Study of music of the 20th century. Includes compositional devices from 1900 to the present, as well as analysis of selected major works. Required for music majors. *Instructor: Al-Zand*

MUSI 317(F)  THEORY FOR NONMAJORS I (3-0-3)
Discussion, analysis, and application of the parameters of music. Includes melody, rhythm, harmony, counterpoint, instrumentation, and form. For nonmusic majors with appreciable instrumental and/or high school theory background. *Instructor: Brandt*

MUSI 318(S)  THEORY FOR NONMAJORS II (3-0-3)
Study of stylistic harmony, melody, and form from 1700 to the present. For nonmusic majors with appreciable instrumental and/or high school theory background. Not offered every year. *Instructor: Staff*

MUSI 405(S)  MUSIC BUSINESS AND LAW (3-0-3)
This course is intended to enable the student to view their work within the larger context of the business of music and to allow the student more latitude and awareness in determining a career path. Alternates with MUSI 417. *Instructor: Gottschalk*

MUSI 412(S)  ANALYTICAL SYSTEMS (3-0-3)
Study of advanced analytical techniques. Includes practical applications of principal analytical systems from the Middle Ages to the present. May be used to satisfy fifth semester theory requirement for undergraduate music majors. *Instructor: Al-Zand*

MUSI 416  ORCHESTRATION (3-0-3)
May be used to satisfy 5th semester theory requirement for undergraduate music majors. *Instructor: Applebaum*
MUSI 417(S)  MUSIC FOR MEDIA (3-0-3)
An examination of the generalized functions of media music (e.g., pacing, characterization, psychological extension, and structural delineation) with reference to dramatic intent. No prior technical knowledge of either medium required, though some background in multimedia or music preferred. Alternates with MUSI 405.  Instructor: Gottschalk

MUSI 503  ACOUSTICS (3-0-3)
Permission of instructor. Offered irregularly.  Instructor: Staff

MUSI 511(F)  GRADUATE THEORY REVIEW (2-0-2)

MUSI 513(F)  MODAL COUNTERPOINT (2-0-3)
In-depth examination of the vocal polyphony of the 16th century. Includes practical applications of contrapuntal techniques. May be used to satisfy the 5th semester theory requirements for undergraduate music majors.  Instructor: Gottschalk

MUSI 514(F)  SCORE READING AND KEYBOARD THEORY
Instruction in score reading. Not offered every year.  Instructor: Jalbert

MUSI 516(S)  ADVANCED ORCHESTRATION (3-0-3)
Prerequisite: MUSI 416 or permission of instructor.  Instructor: Staff

MUSI 517(F)  EARLY MODERN MASTERS (3-0-3)
Analysis of the music of the leading figures in music composition of their first half of the 20th century.  Instructor: Chen

MUSI 611(F)  PEDAGOGY OF THEORY (3-0-3)
Study of principal learning theories and philosophies of learning and teaching. Includes examination and critique of college-level materials. Not offered every year.  Instructor: Lavenda

MUSI 613(S)  CANON AND FUGUE (2-0-3)
Specialized study of imitative counterpoint. Includes examples from the 15th to the 20th centuries, with emphasis on the baroque fugue and 20th-century polyphony. May be used to satisfy the 5th semester theory requirement for undergraduate music majors.  Instructor: Applebaum

MUSI 614  MUSIC OF A SINGLE COMPOSER (3-0-3)
Advanced study of the music of a single composer.  Instructor: Staff

MUSI 617  MUSIC SINCE 1950 (3-0-3)
Analysis of the music of the leading figures in music composition since World War II.  Instructor: Chen

MUSI 711(F)  ADVANCED ANALYTICAL SYSTEMS (3 hours credit)
Examination of critical passages from chosen works, with specific reference to points of view in the writings of Schenker, Forte, Babbitt, and Cone.  Instructor: Al-Zand

MUSI 712(S)  SEMINAR IN ADVANCED ANALYSIS (3 hours credit)
Not offered every year.  Instructor: Staff

MUSI 713(F)  STYLE STUDIES SEMINAR
Offered irregularly.  Instructor: Staff

MUSI 714(S)  SPECIAL TOPICS IN MUSIC THEORY
Instructor: Staff

MUSI 715(F)  HISTORY OF THEORY (3-0-3)
Not offered every year.
III. HISTORY AND LITERATURE

MUSI 222(S)  MEDIEVAL AND RENAISSANCE MUSIC (3-0-3)
Historical study of musical style, concentrating on the medieval and renaissance eras. Required for music majors. Prerequisite: MUSI 221. Also offered as MDST 222. Not to music majors: course will not be offered in 2002–2003. Instructor: Meconi

MUSI 321(F)  BAROQUE AND EARLY CLASSICAL ERAS (3-0-3)
Historical study of the 17th and 18th centuries, Baroque and pre-classical music. Required for music majors. Instructor: Staff

MUSI 322(S)  CLASSICAL AND ROMANTIC ERAS (3-0-3)
Historical study of music of the 18th and 19th centuries. Includes classical and Romantic music. Required for music majors. Instructors: Citron, Ferris

MUSI 323  ROMANTIC SYMPHONY (3-0-3)
Exploration of the genre of the symphony in the 19th century in the wake of Beethoven. Prerequisite: MUSI 421. Not offered every year. Instructor: Bailey

MUSI 324  OPERA ON FILM (3-0-3)
Study of major treatments of cinematic and televised versions of opera, with a focus on aesthetics, interpretation, and representation. Not offered every year. Instructor: Citron

MUSI 327(F)  MUSIC LITERATURE FOR NONMAJORS I (3-0-3)
Historical survey of music from the Middle Ages to 1750. Offered every other year. Instructor: Bailey

MUSI 328(S)  MUSIC LITERATURE FOR NONMAJORS II (3-0-3)
Historical survey of music from 1750 to the present. Offered every other year. Instructor: Bailey

MUSI 329  SPECIAL STUDIES—MUSIC HISTORY (3-0-3)
Special studies in music history. Not offered every year.

MUSI 414  PIANO CHAMBER MUSIC LITERATURE (3 hours credit)
Not offered every year. Instructor: Connelly

MUSI 421(F)  THE MODERN ERA (3-0-3)
Historical study of music of the 20th century. Correlates with 431. Required for music majors. Instructor: Bailey

MUSI 422  RENAISSANCE MUSIC (3-0-3)
Instructor: Meconi

MUSI 423(F)  CHAMBER MUSIC LITERATURE (3-0-3)
Not offered every year.

MUSI 424(F)  ORGAN LITERATURE I AND II (3-0-3 each semester)
MUSI 425(S)
Not offered every year. Instructor: Holloway

MUSI 426(F)  PIANO LITERATURE (3-0-3)
Not offered every year. Instructor: Fischer

MUSI 427(F)  ORGAN LITERATURE III AND IV (3-0-3 each semester)
MUSI 428(S)
Not offered every year. Instructor: Holloway

MUSI 429(F)  MUSIC OF THE MIDDLE AGES (3-0-3)
Study of western art music before 1400. Also offered as MDST 429. Instructor: Meconi

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MUSI 521  GRADUATE REVIEW OF MUSIC HISTORY I (3-0-3)
Survey of medieval, renaissance, and baroque music for graduate students. Instructor: Ferris

MUSI 522  GRADUATE REVIEW OF MUSIC HISTORY II (3-0-3)
Survey of classical, romantic, and 20th-century music for graduate students. Instructor: Ferris

MUSI 523(S)  BIBLIOGRAPHY AND RESEARCH METHODS I (3-0-3)
Study of bibliography methods and techniques in research methodology. Instructor: Staff

MUSI 524  AMERICAN MUSIC (3-0-3)
Exploration of art music in the United States, ca. 1800 to ca. 1940, with reference to earlier American and European styles. Prerequisites: MUSI 421. Not offered every year. Instructor: Bailey

MUSI 525  PERFORMANCE PRACTICES SEMINAR (3-0-3)
Study of performance practices from treatises and music. Includes problems in editing music. Not offered every year. Instructor: Schnoebelen

MUSI 526  WOMEN IN MUSIC (3-0-3)
Study of gender in music, including aesthetics and representation, and of the major roles women have assumed in music, especially as composers, performers, and patrons. While the course emphasizes the Western art tradition, other types of music are explored as well. Also offered as WGST 440. Not offered every year. Instructor: Citron

MUSI 527  TOPICS IN EARLY MUSIC (3-0-3)
Advanced study in selected topics in music history prior to 1600. Prerequisites: MUSI 421. Not offered every year. Instructors: Meconi, Schnoebelen

MUSI 528  TOPICS IN THE 17TH AND 18TH CENTURIES (3-0-3)
Advanced study in selected topics in music history of the 17th and 18th centuries. Prerequisites: MUSI 421. Not offered every year. Instructors: Bailey, Citron, Ferris

MUSI 529  TOPICS IN THE 19TH AND 20TH CENTURIES (3-0-3)
Advanced study in selected topics in music history of the 19th and 20th centuries. Prerequisites: MUSI 421. Not offered every year. Instructors: Bailey, Citron, Ferris

MUSI 621  SELECTED STUDIES IN MUSIC HISTORY (3-0-3)
Seminar on individual topics in music history. Content varies from year to year. Prerequisites: MUSI 421. Not offered every year. Instructors: Bailey, Citron, Ferris, Meconi

MUSI 622  THE AGE OF MONTEVERDI (3-0-3)
Study of Monteverdi’s operas, madrigals, and sacred music, in the context of the 17th century in northern Italy. Relationships between text and music, musical form, and the works of several contemporaries will be analyzed. Prerequisites: MUSI 421. Not offered every year. Instructor: Staff

MUSI 623  BACH CANTATAS AND PASSIONS (3-0-3)
Study of selected cantatas, the Passions according to St. John and St. Matthew, and the Mass in B Minor in the context of Bach’s religious beliefs and their expression in his vocal music, and analysis of his unique synthesis of musical forms. Prerequisites: MUSI 421. Not offered every year. Instructor: Staff

MUSI 624  SEMINAR ON A SELECTED COMPOSER (3-0-3)
Advanced study of the music of a single composer. Prerequisites: MUSI 421. Not offered every year. Instructors: Bailey, Citron, Ferris, Meconi, Staff

MUSI 625  MOZART OPERAS (3-0-3)
Study of three or four of Mozart’s operas in-depth, with a focus on how music shapes drama, interpretation, characterization, and meaning. Prerequisites: MUSI 421. Not offered every year. Instructor: Citron

(F) = fall; (S) = spring
MUSI 626  BEETHOVEN STUDIES (3-0-3)
Exploration of Beethoven’s creative process through study of his sketchbooks, influences from other composers, as well as cultural and sociological forces that shaped his compositions. Analysis of selected works. Prerequisites: MUSI 421. Not offered every year. Instructor: Staff

MUSI 627  ROMANTIC SONGS AND CHARACTER PIECES (3-0-3)
Study of songs and piano character pieces of Schumann, Chopin, Mendelssohn, and Schubert from analytical and historical perspectives. Prerequisites: MUSI 421. Not offered every year. Instructor: Ferris

MUSI 628  BRAHMS (3-0-3)
Study of Brahms in the context of 19th-century music and culture. Selected works are analyzed in detail and interpreted in light of formative influences (Schumann and older music) and contemporary debates (Wagnerism and Viennese musical politics). Prerequisites: MUSI 421. Not offered every year. Instructor: Citron

MUSI 629  OPERA 1875–1925 (3-0-3)
Study in-depth of four major operas from this period: Bizet’s Carmen, Verdi’s Otello, Strauss’s Elektra, and Berg’s Wozzeck. The course emphasizes the role of music in shaping drama, characterization, and meaning. Prerequisites: MUSI 421. Not offered every year. Instructor: Citron

MUSI 721  MUSIC OF SCHOENBERG (3-0-3)
Study of the music of Arnold Schoenberg in the context of the major musical centers and artistic movements that colored his works: Vienna, Berlin, romanticism, expressionism, and the New Objectivity. Prerequisites: MUSI 421. Not offered every year. Instructor: Bailey

MUSI 722  STRAVINSKY (3-0-3)
Study of Igor Stravinsky’s major works to ca. 1925 in the context of his early training, commissions from Diaghilev, exile in Switzerland, and postwar prominence in Paris. Prerequisites: MUSI 421. Not offered every year. Instructor: Bailey

MUSI 723  AESTHETICS OF MUSIC (3-0-3)
Introduction to music aesthetics, with emphasis on contemporary theories and writings. Not offered every year. Instructor: Lavenda

MUSI 724  HILDEGARD OF BINGEN (3-0-3)
The course examines the life and works of 12th-century polymath Hildegard of Bingen, including her achievements in music, poetry, religious thought, medicine, natural science, and linguistics. Also offered as MDST 441 and WGST 441. Not offered every year. Instructor: Meconi

MUSI 725  JOSQUIN (3-0-3)
Examination of the works of Josquin des Prez and his pivotal role in changing musical style in the late 15th and early 16th centuries. Prerequisites: MUSI 421. Not offered every year. Instructor: Meconi

MUSI 726(F)  ILLUMINATED MUSIC MANUSCRIPTS (3-0-3)
The study of illuminated manuscripts from the Middle Ages through the mid-16th century, with discussion of changes in production, design, decoration, and function throughout this period. Non-music manuscripts will also be examined in order to place music collections in the context of contemporary manuscript culture. Also offered as MDST 486. Instructor: Meconi

IV. AURAL SKILLS

MUSI 231(F)  AURAL SKILLS AND PERFORMANCE
MUSI 232(S)  TECHNIQUES I AND II (3-0-2 each semester)
Instruction in ear training and sight-singing, with emphasis on rhythm (MUSI 231) and diatonic scales, intervals and melody (MUSI 232). Pre-enrollment placement test required. Must take aural skills classes in sequence. Required for music majors. Instructor: Al-Zand

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MUSI 331(F)  AURAL SKILLS AND PERFORMANCE
MUSI 332(S)  TECHNIQUES III AND IV (3-0-2 each semester)
Continuation of MUSI 232, with emphasis on diatonic triads and seventh chords secondary dominants and harmonic progressions (MUSI 331) and multiple parts in rhythm and melody (MUSI 332). Required for music majors except those in B.A. program. Instructors: Jalbert, Chen

MUSI 431(F)  AURAL SKILLS AND PERFORMANCE
TECHNIQUES V (3-0-2)
Continued instruction in ear-training and sight-singing, with emphasis on chromatic harmony and melody. Required for music majors except those in B.A. program. Instructor: Gottschalk

MUSI 432(F)  GRADUATE EAR TRAINING REVIEW (3-0-2)
Instructor: Staff

V. CONDUCTING

MUSI 434(F)  ELEMENTS OF CONDUCTING (2-0-2)
Basic conducting techniques, intended primarily for music composition majors. Offered irregularly. Instructor: Webster

MUSI 439(F)  CHORAL CONDUCTING I (3-0-3)
Development of the fundamental skills of choral conducting. Includes baton techniques, score reading, and rehearsal procedures, using conducting materials selected from representative choral works. Not offered every year. Instructor: Jaber

MUSI 440(S)  CHORAL CONDUCTING II (3-0-3)
Study of advanced techniques of choral conducting, with emphasis on expressive gestures and phrasal conducting, interpretation and chironomy of chant, recitative conducting, repertoire selection, score preparation, and conducting of choral-instrumental works. Not offered every year. Instructor: Jaber

MUSI 533  GRADUATE CONDUCTING SEMINAR (4-0-1)
Open only to orchestral conducting majors with graduate standing. Instructor: Rachleff

MUSI 630  GRADUATE CHORAL CONDUCTING SEMINAR (3-0-3)
Instructor: Jaber

MUSI 637  ADVANCED CONDUCTING FOR MAJORS (3-9-3)
Open only to orchestral conducting majors with graduate standing. Instructor: Rachleff

VI. INDIVIDUAL INSTRUCTION

Course numbers for music courses involving individual instruction have the following coded values:

First digit — curricular function: 1 = study by nonmusic majors; 2 = study by music majors on an instrument other than their principal instrument; 3 = study by composition, music history, theory, or conducting majors on their principal instrument; 4 = study by performance majors before qualifying exams (four-year undergraduates and five-year students); 6 = study by performance majors after qualifying exams (two-year graduate students and five-year students)

Second digit — instrument family
Third digit — particular instrument within the family

(F) = fall; (S) = spring
1. Woodwind Instruction

**Flute Courses**
MUSI 151 (1-5-2); MUSI 251 (1-5-2); MUSI 351 (1-5-2); MUSI 352 (1-25-3); MUSI 451 (1-25-3); MUSI 651 (1-25-3)
*Instructor: Buyse*

**Oboe Courses**
MUSI 153 (1-5-2); MUSI 253 (1-5-2); MUSI 353 (1-5-2); MUSI 354 (1-25-3); MUSI 453 (1-25-3); MUSI 653 (1-25-3)
*Instructor: Atherholt*

**Clarinet Courses**
MUSI 155 (1-5-2); MUSI 255 (1-5-2); MUSI 355 (1-5-2); MUSI 356 (1-25-3); MUSI 455 (1-25-3); MUSI 655 (1-25-3)
*Instructors: Peck, Webster*

**Bassoon Courses**
MUSI 157 (1-5-2); MUSI 257 (1-5-2); MUSI 357 (1-5-2); MUSI 358 (1-25-3); MUSI 457 (1-25-3); MUSI 656 (1-25-3)
*Instructor: Kamins*

**Other Woodwind Courses**
MUSI 459 THEORY OF WOODWIND PERFORMANCE TECHNIQUES (1-3-1)
*For conducting and composition students only. Not offered every year.*

MUSI 559 WOODWIND PEDAGOGY (1-2 hours variable)
*Not offered every year. Permission of director of Graduate Studies required.*

2. Brass Instruction

**Horn Courses**
MUSI 161 (1-5-2); MUSI 261 (1-5-2); MUSI 361 (1-5-2); MUSI 362 (1-25-3); MUSI 461 (1-25-3); MUSI 661 (1-25-3)
*Instructor: Ver Meulen*

**Trumpet Courses**
MUSI 163 (1-5-2); MUSI 263 (1-5-2); MUSI 363 (1-5-2); MUSI 364 (1-25-3); MUSI 463 (1-25-3); MUSI 663 (1-25-3)
*Instructor: Ghitalla*

**Trombone Courses**
MUSI 165 (1-5-2); MUSI 265 (1-5-2); MUSI 365 (1-5-2); MUSI 366 (1-25-3); MUSI 465 (1-25-3); MUSI 665 (1-25-3)
*Instructor: Waters*

**Tuba Courses**
MUSI 167 (1-5-2); MUSI 267 (1-5-2); MUSI 367 (1-5-2); MUSI 368 (1-25-3); MUSI 467 (1-25-3); MUSI 667 (1-25-3)
*Instructor: Kirk*

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
Other Brass Courses

MUSI 469  THEOREY OF BRASS PERFORMANCE TECHNIQUES (1-3-1)
For conducting and composition students. Not offered every year.

MUSI 535  LOW BRASS ORCHESTRAL STUDIES (1-0-1)
Focuses on standard orchestra pieces (for trombone, bass trombone, and tuba) frequently requested for auditions. Students are given assignments for individual and section playing, and class meetings are spent on students’ preparation and musical presentation. Not offered every year. Instructors: Kirk, Waters

MUSI 569  BRASS PEDAGOGY (1-3-2)
Not offered every year. Permission of director of Graduate Studies required.

Percussion Courses

MUSI 171 (1-5-2); MUSI 271 (1-5-2); MUSI 371 (1-5-2); MUSI 372 (1-25-3); MUSI 471 (1-25-3); MUSI 671 (1-25-3)
Instructor: Brown

Other Percussion Courses

MUSI 472  GENERAL PERCUSSION STUDIES (1-0-1)
Instructor: Brown

MUSI 479(S)  THEORY OF PERCUSSION PERFORMANCE TECHNIQUES (1-3-1)
For conducting and composition students. Not offered every year. Instructor: Brown

MUSI 579(S)  PERCUSSION PEDAGOGY (1-3-2)
Not offered every year. Permission of director of Graduate Studies required. Instructor: Brown

3. Voice Instruction

MUSI 173 (1-5-2); MUSI 273 (1-5-2); MUSI 373 (1-5-2); MUSI 374 (1-25-3); MUSI 473 (1-25-3); MUSI 673 (1-25-3)
Instructors: Farwell, Kaun, Murray

Other Voice Courses

MUSI 344  ACTING FOR SINGERS (1-0-1)
A precursor to opera workshop. For singers to go beyond vocal technique in using the body for creative expression, communication, and characterization. Includes movement, improvisation, and developing subtext. Instructor: Dickinson

MUSI 474  OPERA THEATER WORKSHOP (1 hour credit)
Study of operatic techniques for the singer/actor. Includes the cultivation of free, expressive, and significant movement on stage and the development of musical, dramatic, and muscular sensitivity, as well as participation, according to ability, in scenes, recitals, and major productions.

MUSI 549  VOICE PEDAGOGY (1-3-2)
Offered alternate years. For juniors, seniors, and graduate students.

MUSI 571  VOCAL COACHING (1 hour credit)
Instructors: de Chambrier, Jaber

(F) = fall; (S) = spring
MUSI 573(F) DICTION I: ITALIAN (2-1-1)
MUSI 574(F) DICTION II: GERMAN (2-1-1)
MUSI 575(F) VOICE REPERTOIRE I AND II (1-3-2)
MUSI 576(S)
MUSI 577(S) DICTION III: ENGLISH (2-1-1)
MUSI 578(S) DICTION IV: FRENCH (2-1-1)
MUSI 610 ADVANCED OPERA WORKSHOP (2-0-2)
For doctoral students only. Provides singers with broad understanding of opera production. Lectures emphasize the exploration of music and text to develop the director’s concept, the development of underlying themes through staging, technical aspects of opera production, and methods for coaching singing actors. Students will direct and perform in opera scenes. Instructor: Dickinson

4. Keyboard and Harp Instruction

Piano Courses
MUSI 181 (1-5-2); MUSI 281 (1-5-2); MUSI 381 (1-5-2); MUSI 382 (1-25-3); MUSI 481 (1-25-3); MUSI 681 (1-25-3)
Instructors: Connelly, J.K. Fischer, Roux, Shank, Parker

Organ Courses
MUSI 183 (1-5-2); MUSI 283 (1-5-2); MUSI 383 (1-5-2); MUSI 384 (1-25-3); MUSI 483 (1-25-3); MUSI 683 (1-25-3)
Instructor: Holloway

Harpsichord Courses
MUSI 185 (1-5-2); MUSI 285 (1-5-2); MUSI 385 (1-5-2); MUSI 386 (1-25-3)
Prerequisite: permission of instructor. Not offered every year. Instructor: Holloway

Harp Courses
MUSI 187 (1-5-2); MUSI 287 (1-5-2); MUSI 387 (1-5-2); MUSI 388 (1-25-3); MUSI 487 (1-25-3); MUSI 687 (1-25-3)
Instructor: Page

Other Keyboard Courses
MUSI 389 COLLABORATIVE PIANO SKILLS (2 hours credit)
Practicum exploring the pianist as an ensemble player. Includes three sessions each week: a performance class for pianists in partnership with instrumentalists and singers (e.g., balance, pedaling, articulation, and style), a private appointment with the instructor on the individual repertoire (e.g., songs, sonatas, and concerto reductions), and supervised sight reading in the four-hand and other duo literature. Instructor: J.K. Fischer

MUSI 445(F) KEYBOARD SKILLS I AND II (2 hours credit each)
MUSI 446(S)
For organists. Not offered every year. Instructor: Holloway

MUSI 447(F) INTRODUCTION TO PIANO TECHNOLOGY (2 hours credit)
Introduction to the tuning and maintenance of pianos. Includes the theory and acoustics of tuning, a brief history of the piano, and a general exposure to restoration, as well as “hands-on” experience. Instructor: Shank

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MUSI 448(S)  PIANO TECHNOLOGY PRACTICUM FOR PIANISTS (2 hours credit)
Practicum in the proper repair and replacement of sound-producing mechanisms. Includes supervised involvement in tuning and maintenance. Instructor: Shank

MUSI 545(F)  SERVICE SKILLS I AND II (2 hours credit each)
MUSI 546(S)  For organists. Not offered every year. Instructors: Holloway, Kloeckner

MUSI 547(F)  ORGAN PEDAGOGY (1-3-2)
Instructor: Holloway

MUSI 583  INSTRUMENTAL ACCOMPANYING TECHNIQUES (2 hours credit)
Development of practical skills for accompanying string and wind instruments in a wide repertoire. Includes sonatas, transcriptions, and orchestral reductions. For piano majors. Not offered every year. Instructor: Connelly

MUSI 584  VOCAL COACHING TECHNIQUES FOR PIANISTS (2 hours credit)
Development of skills for accompanying and coaching singers. Includes basic vocal production and terminology, lieder, opera, and oratorio. For piano majors. Not offered every year. Instructors: Farwell, Kaun

MUSI 588(F)  PIANO PEDAGOGY I (1-3-2)
Comprehensive survey of current methods of piano instruction, with emphasis on group instruction. Includes “hands-on” experience in operating an electronic keyboard lab and supervised student teaching. Offered alternate years. Instructor: Shank

MUSI 589(S)  PIANO PEDAGOGY II (1-3-2)
Survey of the traditional private mode of teaching, with emphasis on contrasting methods and technical approaches. Includes supervised teaching. Offered alternate years. Instructor: Shank

MUSI 633(F)  COMPREHENSIVE PRACTICUM IN PIANO TUNING (3 hours credit)
Complete restoration of a studio or performance piano under instructor supervision, with emphasis on restringing, installation of new action parts and dampers, and finish regulation, as well as voicing of the parts. Instructor: Shank

MUSI 645(S)  ORGAN CONSTRUCTION (2 hours credit)
Not offered every year. Instructor: Visser

MUSI 686  APPLIED PIANO TECHNOLOGY (3 hours credit)
Comprehensive study in tuning all important historical and modern temperaments. Includes supervised work on action, voicing, regulation, and restoration. Instructor: Shank

MUSI 689  PIANO FOR CHAMBER MUSIC AND ACCOMPANYING MAJORS—ADVANCED AND GRADUATE STUDENTS (3 hours credit)
Instructor: Connelly

5. String Instruction

Violin Courses
MUSI 191 (1-5-2);  MUSI 291 (1-5-2);  MUSI 391 (1-5-2);  MUSI 392 (1-25-3);  MUSI 491 (1-25-3);  MUSI 691 (1-25-3)
Instructors: Fliegel, Goldsmith, Luca, Winkler

(F) = fall; (S) = spring
Viola Courses
MUSI 193 (1-5-2); MUSI 293 (1-5-2); MUSI 393 (1-5-2); MUSI 394 (1-25-3);
MUSI 493 (1-25-3); MUSI 693 (1-25-3)
Instructors: Ritscher, Dunham

Violoncello Courses
MUSI 195 (1-5-2); MUSI 295 (1-5-2); MUSI 395 (1-5-2); MUSI 396 (1-25-3);
MUSI 495 (1-25-3); MUSI 695 (1-25-3)
Instructors: N. Fischer, Hoebig

Double Bass Courses
MUSI 197 (1-5-2); MUSI 297 (1-5-2); MUSI 397 (1-5-2); MUSI 398 (1-25-3);
MUSI 497 (1-25-3); MUSI 697 (1-25-3)
Instructors: Ellison, Pitts

Other String Courses
MUSI 406 CLASSICAL CONCERTO PERFORMANCE CLASS (1-0-1)
Study of concerto repertoire for a chosen instrument, with emphasis on stylistically informed performance. Not offered every year. Prerequisite: permission of major teacher and instructor. Instructor: Luca

MUSI 408 UNACCOMPANIED BACH PERFORMANCE CLASS (1 hour credit)
Performances of J. S. Bach for one unaccompanied instrument with commentary on stylistic and historic aspects of the works. Includes student performance of versions in their original form or transcribed for the student’s instrument when applicable. Not offered every year. Prerequisite: permission of instructor. Instructor: Luca

MUSI 409 SEMINAR IN CLASSICAL PERFORMANCE STYLE (1-0-1)
Haydn, Mozart, early Beethoven, C. P. E. Bach and other repertoire of the period. Interested students must belong to a group that has already been coached and is prepared to perform at least one movement. Not offered every year. Prerequisite: permission of instructor. Instructor: Luca

MUSI 492(S) STRING TECHNOLOGY (2 hours credit)
Introduction and practicum in the maintenance and repair of string instruments. Not offered every year. Permission of director of Graduate Studies required.

MUSI 499(F) THEORY OF STRING PERFORMANCE TECHNIQUES (1-3-1)
For conducting and composition students. Not offered every year.

MUSI 599 STRING PEDAGOGY (1-3-2)
Section 1, violin; section 2, viola; section 3, cello; and section 4, double bass. Not offered every year. Permission of director of Graduate Studies required.

VII. ENSEMBLES
MUSI 334 CAMPANILE ORCHESTRA (1-0-1)
MUSI 335 UNDERGRADUATE CHORUS (0-3-1)
Section 1, Shepherd Singers (by audition only); section 2, Rice Chorale; and section 3, Sallyport (by audition only). Instructor: Jaber

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
MUSI 337 UNDERGRADUATE ORCHESTRAS (0-9-2)  
_Instructor: Rachleff_

MUSI 338 UNDERGRADUATE CHAMBER MUSIC (0-6-1)

MUSI 435 CONTEMPORARY MUSIC ENSEMBLE (1-0-1)  
Permission of instructor. Not offered every year. _Instructor: Webster_

MUSI 436 COLLEGIUM (1 hour credit)  
Performance of music before 1600. Also offered as MDST 456. _Instructor: Meconi_

MUSI 531 ORCHESTRAL REPERTOIRE (1-3-1)  
Section 1, violin; section 2, viola; section 3, cello; section 4, double bass; section 5, woodwinds; section 6, brass; section 7, percussion ensemble; and section 8, harp. May be repeated for credit.  
_Instructor: Rachleff_

MUSI 635 ADVANCED ORCHESTRAS (0-9-2)  
_Instructor: Rachleff_

MUSI 636 ADVANCED CHAMBER MUSIC (0-6-1)

MUSI 640 ADVANCED CHORUS (0-3-1)  
Section 1, Shepherd Singers (by audition only); section 2, Rice Chorale; and section 3, Sallyport (by audition only). _Instructor: Jaber_

MUSI 736 SOLO, CHAMBER, AND CONCERTO REPERTOIRE (3 hours credit)  
Preparation of a wide range of repertoire as determined by the instructor.

**VIII. APPLICABLE TO ALL SPECIALIZATIONS**

MUSI 141 GUITAR FOR NONMAJORS (1-5-2)

MUSI 341 JUNIOR RECITAL (0 hours credit)

MUSI 441 SENIOR RECITAL (0 hours credit)

MUSI 442 RECITAL ACCOMPANYING (0-2-1)  
Exercise in accompanying a single student recital. Includes preview, dress rehearsal, performance, lessons with the soloist’s teacher, and practice times mutually agreeable to soloist and accompanist. May be repeated for credit. Prerequisite: permission of instructor. _Instructor: Connelly_

MUSI 443 STUDIO ACCOMPANYING (0-4-1)  
Exercise in accompanying private lessons in studios, as assigned, for a total of 4 hours each week. May be repeated for credit. Prerequisite: permission of instructor. _Instructor: Connelly_

MUSI 449 UNDERGRADUATE INDEPENDENT STUDY (variable)

MUSI 450 QUALIFYING RECITAL (0 hours credit)

MUSI 631 MOCK AUDITION (0 hours credit)

MUSI 641 MASTER’S RECITAL I (0 hours credit)

MUSI 642 ACCOMPANYING FOR ENSEMBLE CREDIT (0-4-1)  
May be taken in lieu of MUSI 335, 337, 635, or 640. Prerequisites: MUSI 442 or 443 and permission of both the student’s major teacher and the conductor of the ensemble in which the student would normally perform. Prerequisite: permission of instructor. _Instructor: Connelly_

_(F) = fall; (S) = spring_
MUSI 647  MASTER’S THESIS IN COMPOSITION, THEORY, OR HISTORY AND LITERATURE (1-0-3)

MUSI 649  GRADUATE INDEPENDENT STUDY (hours variable)

MUSI 700  GRADUATE RESEARCH (hours variable)
Prerequisite: permission of director of graduate studies at the Shepherd School.

MUSI 741  MASTER’S RECITAL II (0 hours credit)

MUSI 748  DOCTORAL RECITAL RESEARCH (hours variable)
Prerequisite: permission of director of graduate studies at the Shepherd School.

MUSI 749  APPRENTICESHIP (hours variable)

MUSI 750  DOCTORAL DOCUMENT (3 hours credit)
Supervised research and writing in areas of performance study. Not limited to areas of original research. Normally taken following completion of other course work, beginning the semester when comprehensive examinations are scheduled.

MUSI 751  DOCTORAL RECITAL (0 hours credit)
Section 1, solo; section 2, chamber; section 3, concerto; and section 4, lecture.

MUSI 800  DISSERTATION (3 hours credit)

IX. BAND

MUSI 340  CONCERT BAND (0-4-1)
Prerequisite: successful audition or permission of instructor.

MUSI 342  JAZZ ENSEMBLE (0-3-1)
Prerequisite: successful audition or permission of instructor.

MUSI 345  APPLIED STUDIES IN JAZZ IMPROVISATION (2 hours credit)
Private lessons on specific advanced techniques in jazz improvisation.

MUSI 415(S)  BAND ARRANGING (2-1-1)
Creative band arranging for marching, jazz, and concert bands. Includes the study of contemporary harmony, musical style, and scoring, supported by practical performance and analysis of student projects.

Naval Science (NAVA)

In addition to the courses below, NROTC students may be required to complete certain other university courses.

NAVA 101(F)  NAVAL ORIENTATION (4-0-0)
Introduction to naval traditions and customs, seamanship, naval organization and missions, and the fundamental concepts of seapower. Instructor: Frederickson

NAVA 102(S)  NAVAL ENGINEERING—NAVAL SHIP SYSTEMS I (4-0-3)
Study of ship propulsion systems, auxiliary systems, steering systems, electrical power distribution, ship design, ship stability, and damage control measures. Instructor: Kane

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
NAVA 201(F)  NAVAL WEAPONS—NAVAL SHIP SYSTEMS II (3-0-3)
Study of the theory and employment of weapons systems. Includes processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives, as well as a detailed description of the physical aspects of radar and underwater sound. *Instructor: Kane*

NAVA 202(S)  SEAPower AND MARITIME AFFAIRS (3-0-2)
Readings, discussions, and research on selected topics related to the history, importance, and impact of seapower on modern civilization. *Instructor: Frederickson*

NAVA 301(F)  NAVIGATION (3-0-3)
Comprehensive study of marine navigators and laws of vessel operations. Includes coastal piloting, navigational aids, nautical astronomy, satellite and inertial systems, and rules of the nautical road. Corequisite: NAVA 311. *Instructor: Kane*

NAVA 302(S)  NAVAL OPERATIONS (3-0-2)
Analysis of ship movements, formations, and fleet operations. Includes ship operations case studies, maneuvering board, tactical publications, and communications. *Instructor: Frederickson*

NAVA 303(F)  EVOLUTION OF WARFARE (3-0-2)
Historical survey of the evolution of the conduct of warfare. Includes strategy, tactics, weapons, organization, and military leaders/thinkers. *Instructor: Hale*

NAVA 311(F)  NAVIGATION LAB (0-2-0)
*Instructor: Kane*

NAVA 401(F)  LEADERSHIP AND MANAGEMENT (2-0-2)
Introduction to the principles and concepts of management, organization, leadership, information systems, and decision making. *Instructor: York*

NAVA 402(S)  LEADERSHIP AND ETHICS (2-0-1)
Comprehensive study of leadership principles, with emphasis on ethics, human resources management, military law and discipline, and administration. *Instructor: York*

NAVA 410(F)  AMPHIBIOUS WARFARE (3-0-2)

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Natural Sciences (NSCI)

The Wiess School of Natural Sciences

NSCI 111(F)  SCIENCE TODAY I: PHYSICS AND ASTRONOMY (3-0-3)
An integrated survey of key principles in physics and astronomy, intended for nonscience/engineering majors. The course will focus on scientific methodology and a few universal laws and will tie these to practical experience and societal issues. Primary goals are to prepare the student to appreciate popular accounts of scientific discoveries and to form intelligent decisions on contemporary scientific issues. *Instructor: Toffoletto*

NSCI 141(F)  SCIENCE FOR CHANGING TIMES PART I (3-0-3)
This course is designed to impart a sense of scientific literacy to nonscience and nonengineering majors. In this first part, we will study Earth, Air, Fire, and Water, and the contemporary issues involving these topics. There will be speakers from the Rice community who will talk about their interests in these areas, and there will be class discussions and student presentations. The text will be Chemistry for Changing Times. *Instructor: Kinsey*
NSCI 142(S) SCIENCE FOR CHANGING TIMES PART II (3-0-3)
This course is intended to follow Part I and will use the same text, but it may be taken independently. Topics will range from the chemical industry to genetic engineering. There will be speakers from the Rice community, class discussions, and student presentations. Instructor: Kinsey

NSCI 203(S) ATMOSPHERE, WEATHER, AND CLIMATE (3-0-3)
This course emphasizes the fundamental science of the atmospheric system. Subjects to be covered quantitatively include climate changes; solar radiation and the Earth’s energy budget, atmospheric motions and circulation; clouds and storms; and atmospheric environmental concerns. Also offered as PHYS 203.

NSCI 230(F) COMPUTATION IN SCIENCE AND ENGINEERING (3-0-3)
The course introduces basic techniques for problem solving and visualization using computational environments such as Mathematica and Matlab. Class will consist of a mixture of traditional lectures in classrooms and self-paced modules covering topics in science and engineering that will be completed in Symonds II. No previous programming experience is required or expected. Also offered as COMP 110. Instructors: Toffoletto, Warren

Philosophy (PHIL)

The School of Humanities

PHIL 100(F) PROBLEMS OF PHILOSOPHY (3-0-3)
Survey of traditional and contemporary authors on such topics as the nature of scientific knowledge, the theory of justice, and the conflict between determinism and freedom. Normally offered every year. Instructors: Arpaly, Margolis, Roush, Sher

PHIL 101(S) CONTEMPORARY MORAL ISSUES (3-0-3)
Examination of moral issues surrounding such topics as abortion, euthanasia, war, capital punishment, justice, and equality. Limited enrollment (100). Normally offered every year. Instructor: Sher

PHIL 103(F) PHILOSOPHICAL ASPECTS OF COGNITIVE SCIENCE (3-0-3)
Examination of current research in cognitive science and its philosophical implications. Questions to be discussed include: Is the mind a computational system? How is the mind organized? Are certain components of the mind innate? Normally offered every year. Instructor: Margolis

PHIL 104(S) PHILOSOPHICAL PERSPECTIVES ON SCIENCE (3-0-3)
The nature, origins, and impact of scientific knowledge will be examined from a variety of disciplinary perspectives. In addition to works by some of history’s greatest philosophers, including Descartes and Hume, readings will include selections from 20th-century philosophers, scientists, historians, and feminists. Normally offered every year. Instructor: Roush

PHIL 105 HISTORICAL INTRODUCTION TO PHILOSOPHY (3-0-3)
Study and discussion of central ideas of Western philosophy as developed by its original thinkers. Normally offered every other year. Not offered 2001–2002. Instructor: Brody

PHIL 106(F) LOGIC (3-0-3)
Introduction to the formal theory of reasoning, which will be used to assess the validity of arguments in natural languages. Normally offered every year. Required for philosophy majors; may substitute PHIL 305. Instructors: Grandy, Roush

PHIL 108 THE PHILOSOPHICAL LIFE: A LITERARY AND HISTORICAL INTRODUCTION (3-0-3)
An introduction to philosophy through historical and contemporary philosophical and literary sources—including Sophocles, Plato, Shakespeare, Descartes, Dostoevsky, Nietzsche, Mann, Sartre, and others. Not offered 2001–2002. Instructor: Crowell

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
PHIL 201(F)  HISTORY OF PHILOSOPHY I (3-0-3)
Survey of the major philosophers and philosophical systems of ancient Greece, from Parmenides to the Stoics. Required for philosophy majors. **Instructor: Morrison**

PHIL 202(S)  HISTORY OF PHILOSOPHY II (3-0-3)
Survey of the history of Western philosophy from the 17th to the 20th centuries, with emphasis on the 17th and 18th centuries. Required for philosophy majors. Normally offered every year. **Instructor: Kulstad**

PHIL 301(S)  ANCIENT AND MEDIEVAL PHILOSOPHY (3-0-3)
Exploration of major philosophical writings from the 4th-century B.C. through the 14th-century A.D. Content varies from year to year. Normally offered every year. **Instructor: Morrison**

PHIL 302(S)  MODERN PHILOSOPHY (3-0-3)
Examination of themes or authors in 17th- and 18th-century philosophy. Prerequisite: one course in philosophy. Topics vary from year to year. May be repeated for credit. Normally offered every year. **Instructor: Kulstad**

PHIL 303  THEORY OF KNOWLEDGE (3-0-3)

PHIL 304  METAPHYSICS (3-0-3)
Examination of metaphysical theories in the works of historical and contemporary thinkers. Topics may include: free will, the identity of persons over time, causation, possibility and necessity, design and chance, the nature of existence, the nature of time. Prerequisite: one course in philosophy. Normally offered every year. Not offered 2001–2002. **Instructors: Kulstad, Roush**

PHIL 305(F)  MATHEMATICAL LOGIC (3-0-3)
Logic is the study of forms of argument, with one of the main goals being to distinguish correct from incorrect forms of argument. In this course, we systematically develop a formal language and methods for assessing correctness of arguments in this language. Doing this requires facility both in manipulating the language and in thinking about it. There are two independent ways of assessing arguments, one depending on derivation by a series of rules, the other being in terms of interpretations of the language. After studying each of these independently, we prove that they coincide in their answers. Along the way, we discover some important strengths and weaknesses of the language and, by translating back and forth into English, learn a lot about the logical structure of English. We briefly explore some further directions for developing logic, specifically modal logic—the logic of necessity and possibility—and, if there is time, some tense logic. A previous logic course is helpful, though the course is self-contained. **Instructor: Grandy**

PHIL 306(F)  ETHICS (3-0-3)
This course deals with fundamental questions of value and morality—questions such as: What sort of life is best? What kind of person is it best to be? What does morality require of us? It also deals with important second-order questions about these fundamental questions—for example: Can morality be justified? How can we know what’s right or good? Is there moral truth? What is the relation between morality and self-interest? Readings are drawn from both classical and contemporary sources. Normally offered every year. **Instructors: Arpaly, Sher**

PHIL 307(F)  SOCIAL AND POLITICAL PHILOSOPHY (3-0-3)
Exploration of the questions of what makes a society just, on what grounds may the liberty of individuals be legitimately limited, and what social ends may a state legitimately pursue. Normally offered every year. **Instructor: Sher**

PHIL 308(F)  CONTINENTAL PHILOSOPHY (3-0-3)
An examination of philosophical movements in 20th-century European philosophy—including phenomenology, existentialism, hermeneutics, critical theory, deconstruction, and postmodernism. Topics vary from year to year. May be repeated for credit. **Instructor: Crowell**
PHIL 309(S)  AESTHETICS (3-0-3)
An introduction to the philosophy of art. The course draws upon traditional and contemporary philosophical theories and upon examples drawn from the visual, literary, and performing arts (including architecture), to address questions such as: What is a work of art? What factors enter into the way spectators and performers interpret artwork? What makes work good? Can art speak the truth? *Instructors: Crowell, Zuckert*

PHIL 311(S)  PHILOSOPHY OF RELIGION (3-0-3)
Examination of God’s existence, the problem of evil, the relation between faith and reason, and the varieties of religious experience. Normally offered every other year. *Instructor: Brody*

PHIL 312(S)  PHILOSOPHY OF MIND (3-0-3)
Inquiry into the nature of mind, with emphasis on the mind/body problem. Normally offered every year. *Instructor: Margolis*

PHIL 313(S)  PHILOSOPHY OF SCIENCE (3-0-3)
A survey of contemporary issues in the philosophy of science. How do scientific theories provide us with an understanding of the world? How do our observations, in turn, provide support for scientific theories? Scientific theories are often thought to describe laws, or causal relations, but what are these? How are we to understand theories that tell us that certain events are more or less probable? No knowledge of any one science is presupposed. Prerequisite: one course in philosophy. Normally offered every year. *Instructor: Roush*

PHIL 314  THE PHILOSOPHY OF MEDICINE (3-0-3)
The biomedical sciences, the practice of medicine, and health care policy employ concepts of health, disease, disability, and defect in explanatory accounts, intermixing factual claims with moral and other evaluations. This course explores the interplay of evaluation and explanation in medicine’s models of disease and health. Not offered 2001–2002. *Instructor: Engelhardt*

PHIL 315(S)  ETHICS, MEDICINE, AND PUBLIC POLICY (3-0-3)
Examination of ethical and policy questions raised by contemporary medical techniques and by contemporary modes for the delivery of medical services. Normally offered every other year. *Instructor: Engelhardt*

PHIL 316  PHILOSOPHY OF LAW (3-0-3)
Examination of the philosophical foundations of such diverse areas of the law as criminal law, property law, and tort and contract law. Normally offered every other year. Not offered 2001–2002. *Instructor: Brody*

PHIL 317  ETHICS AND EXISTENCE (3-0-3)

PHIL 321(F)  KANT AND 19TH-CENTURY PHILOSOPHY (3-0-3)
An examination of Kant and post-Kantian philosophy in the 19th century—including Hegel and German idealism, Marx, Kierkegaard, Nietzsche, and Dilthey. Normally offered every other year. Topics vary from year to year; may be repeated for credit with departmental permission. *Instructors: Crowell, Zuckert*

PHIL 326(S)  HISTORY OF ETHICS (3-0-3)
An introduction to the major issues of ethical theory through the reading and discussion of such classical figures as Plato, Aristotle, the Stoics, the Epicureans, St. Augustine, St. Thomas, Maimonides, Bishop Butler, David Hume, Adam Smith, J.S. Mill, and I. Kant. Alternate years. *Instructor: Brody*

PHIL 327(F)  HISTORY OF SOCIAL AND POLITICAL PHILOSOPHY (3-0-3)
A survey of classic texts in the history of social and political philosophy, from Plato to Machiavelli to Mill. Alternate years. *Instructor: Morrison*
PHIL 331(S)  MORAL PSYCHOLOGY (3-0-3)
An examination of the role of intellect, emotion, and character as they contribute to the moral (and immoral) life, and as they pertain to rationality and moral responsibility. Prerequisite: one course in philosophy or permission of instructor. Alternate years. Instructor: Arpaly

PHIL 335(S)  ADVANCED TOPICS IN VALUE THEORY (3-0-3)
Intensive examination of a topic of contemporary or historical interest in ethics or political philosophy. Prerequisite: one course in philosophy or permission of instructor. Instructors: Arpaly, Brody, Sher

PHIL 353(S)  THE PHILOSOPHY OF LANGUAGE (3-0-3)
The nature of language has captured the interest of philosophers not only because of the enormous importance of language to human affairs but also because of the conviction, at least in this century, that a proper understanding of language is necessary for true philosophical understanding. The most significant figures in 20th-century philosophy, however different their perspectives, have all made contributions to the study of language. This course will focus on philosophical work in one area that has been especially controversial—the nature of meaning. Nothing could be more obvious than the fact that sentences have meaning; meaning is what gives language its life. Yet meaning is deeply puzzling. What exactly is meaning? What is it that makes a sentence have its meaning? How is it that we can talk about things that don’t exist, or for that matter about things that will never exist? Does meaning depend on the relation between language and the extra-linguistic world? If so, what could this relation be? Topics to be covered: linguistic relativity, verificationism, analyticity, meaning holism, the semantics of names and definite descriptions, the causal theory of reference, philosophical skepticism about meaning. Prerequisite: one previous course in philosophy or permission of instructor. Also offered as LING 353. Instructors: Grandy, Margolis

PHIL 355(S)  PHILOSOPHICAL TOPICS IN ADVANCED LOGIC (3-0-3)
Syntactic and semantic study of various systems of formalization for modalities, tenses, and other intensional concepts. Includes the use and comparison of these systems to evaluate their strengths and limits, as well as to open discussion of questions such as: What is a logical constant? What is the scope of logic? Normally offered alternate years. Instructor: Grandy

PHIL 357  INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY (3-0-3)
Proof of Godel’s Incompleteness Theorems for number theory in several forms and by various methods, as well as development of several definitions of computability for number-theoretic functions, which are then shown to be equivalent. Includes proof of the unsolvability of the Halting Problem and analysis of Church’s thesis, as well as exploration of the extension of the concept of computability to real-valued functions. Normally offered alternate years. Not offered 2001–2002. Instructor: Grandy

PHIL 390(F)  CONTEMPORARY TOPICS (3-0-3)
Discussion of problems in selected areas of philosophy.

PHIL 401(F)  INDEPENDENT READING I AND II (hours variable)
PHIL 402(S)
Prerequisite: permission of the department. Instructor: Crowell

PHIL 501(S)  SEMINAR IN ANCIENT AND MEDIEVAL PHILOSOPHY (3-0-3)
Instructor: Morrison

PHIL 502(F)  SEMINAR IN MODERN PHILOSOPHY (3-0-3)
Topics vary from year to year. May be repeated for credit. Instructor: Kulstad

PHIL 503  SEMINAR IN THEORY OF KNOWLEDGE (3-0-3)

PHIL 504  SEMINAR IN METAPHYSICS (3-0-3)
PHIL 505(F) MATHEMATICAL LOGIC (3-0-3)
Graduate version of PHIL 305. Open to philosophy graduate students only. Instructor: Grandy

PHIL 506(S) SEMINAR IN ETHICS (3-0-3)
Instructors: Arpaly, Brody, Sher

PHIL 507 SEMINAR IN SOCIAL AND POLITICAL PHILOSOPHY (3-0-3)

PHIL 508(S) SEMINAR IN CONTINENTAL PHILOSOPHY (3-0-3)
Close study of selected topics and figures in 20th-century European philosophy, in particular the phenomenology of Edmund Husserl and Martin Heidegger and its dissemination in movements such as existentialism, hermeneutics, and deconstruction. Topics vary from year to year; may be repeated for credit. Instructor: Crowell

PHIL 509 SEMINAR IN AESTHETICS (3-0-3)

PHIL 512(F) SEMINAR IN PHILOSOPHY OF MIND (3-0-3)
Instructor: Margolis

PHIL 513 SEMINAR IN PHILOSOPHY OF SCIENCE (3-0-3)

PHIL 521(F) SEMINAR IN KANT AND HEGEL (3-0-3)
Instructor: Engelhardt

PHIL 522 TOPICS IN MODERN PHILOSOPHY (3-0-3)
Topics in Early Modern Philosophy: a focused, more advanced seminar on select problems or figures in the 17th and 18th centuries. May be repeated for credit. Alternate years. Not offered 2001–2002. Instructor: Kulstad

PHIL 530(S) SEMINAR IN HISTORY OF ANALYTIC PHILOSOPHY (3-0-3)
Instructors: Brody, Grandy

PHIL 532(S) METAETHICS (3-0-3)
Problems to be discussed include cognitivism and non-cognitivism, moral knowledge, moral realism, and moral motivation. Alternate years. Instructors: Arpaly, Brody, Sher

PHIL 533(F) VIRTUE ETHICS (3-0-3)
The leading question of virtue ethics has been characterized as “What kind of person is it best to be?” Topics to be discussed may include moral worth, virtues and vices, happiness, and feminist ethics. Instructor: Arpaly

PHIL 534(S) LIBERALISM (3-0-3)
An examination of the philosophical foundations of liberalism, with emphasis on the thesis that government should be neutral toward competing conceptions of the good life. Alternate years. Not offered 2001–2002. Instructor: Sher

PHIL 536(F) SEMINAR IN MEDICAL ETHICS (3-0-3)
Instructor: Brody

PHIL 537 SEMINAR IN RESEARCH ETHICS (3-0-3)
An examination of the major issues of research ethics, including informed consent and IRB review, involvement and protection of special groups of subjects, fetal tissue and stem cell research, and genetic research. Alternate years. Not offered 2001–2002. Instructor: Brody

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
PHIL 542 **TOPICS IN PHILOSOPHY OF MIND** (3-0-3)

PHIL 543 **TOPICS IN PHILOSOPHY OF SCIENCE** (3-0-3)
Focused consideration of either topics of perennial interest—e.g. explanation, experiment, the problem of induction, the measurement problem of quantum mechanics, interpretation of probability, realism vs. anti-realism, the role of values in science—or topics currently popular in the field, e.g. the Doomsday Argument, the Anthropic Principle. Prerequisite: Some philosophy. May be repeated for credit. Alternate years. *Instructor: Roush*

PHIL 553 **SEMINAR IN PHILOSOPHY OF LANGUAGE** (3-0-3)
Not offered 2001–2002. *Instructor: Grandy*

PHIL 590 **TOPICS IN PHILOSOPHY** (3-0-3)

PHIL 598(F) **ADVANCED INDEPENDENT READING I AND II**
PHIL 599(S) (hours variable)
Directed reading and research. Prerequisite: Philosophy graduate students only. *Instructor: Staff*

PHIL 601(F) **RESEARCH PAPER I AND II** (hours variable)
PHIL 602(S)
Open to philosophy graduate students only. *Instructor: Crowell*

PHIL 651(F) **MASTERS THESIS RESEARCH** (hours variable)
PHIL 652(S)
Research course for graduate students preparing a master’s thesis. Prerequisite: Philosophy graduate students only. May be repeated for credit. *Instructor: Crowell*

PHIL 701(F) **READING AND RESEARCH FOR COMPREHENSIVE**
PHIL 702(S) **EXAMINATION AND THESIS PROPOSAL** (hours variable)
Reading courses in preparation for the comprehensive examination and thesis proposal defense. Prerequisite: Philosophy graduate students only. May be repeated for credit. *Instructor: Crowell*

PHIL 757 **TEACHING WORKSHOP**
A highly participatory workshop for graduate students to improve their teaching abilities. Prerequisite: Philosophy graduate students only. Enrollment limited. May be repeated for credit. *Instructor: Grandy*

PHIL 800 **RESEARCH AND THESIS** (hours variable)
*Instructor: Crowell*

**Physics (PHYS)**

The Wiess School of Natural Sciences/Department of Physics and Astronomy

PHYS 101(F) **MECHANICS (WITH LAB)** (3-3-3)
Calculus-based survey of physics. Includes classes and lab exercises on topics chosen from mechanics, electricity, and magnetism. Primarily for physical science and engineering students. May receive credit for only one of PHYS 101, 111, 125, AP Physics-B, and AP Physics-C (Mech).

PHYS 102(S) **ELECTRICITY AND MAGNETISM (WITH LAB)** (3-3-4)
Continuation of PHYS 101. May receive credit for only one of PHYS 102, 112, 126, AP Physics-B, and AP Physics-C (E&M). Prerequisite: PHYS 101 or equivalent.
PHYS 111(F) MECHANICS (WITH LAB) (3-3-3)
Calculus-based survey of physics. Includes classes and lab exercises on topics chosen from mechanics, electricity, and magnetism. Primarily for physical science and engineering students with strong high school background in physics. May receive credit for only one of PHYS 101, 111, 125, AP Physics-B, and AP Physics-C (Mech). Prerequisites: high school physics and calculus.

PHYS 112(S) ELECTRICITY AND MAGNETISM (WITH LAB) (3-3-4)
Continuation of PHYS 111. May receive credit for only one of PHYS 102, 112, 126, AP Physics-B, and AP Physics-C (E&M). Prerequisites: high school physics and calculus.

PHYS 125(F) GENERAL PHYSICS I (WITH LAB) (3-3-4)
Calculus-based survey of physics. Includes classes and lab exercises on topics chosen from mechanics, waves, electricity, magnetism, optics, and modern physics. Primarily for bioscience and premedical students. May receive credit for only one of PHYS 101, 111, 125, AP Physics-B, and AP Physics-C (Mech).

PHYS 126(S) GENERAL PHYSICS II (WITH LAB) (3-3-4)
Continuation of PHYS 125. May receive credit for only one of PHYS 102, 112, 126, AP Physics-B, and AP Physics-C (E&M). Prerequisite: PHYS 125 or equivalent.

PHYS 141(S) CONCEPTS IN PHYSICS (3-0-3)
Study of concepts in physics, with emphasis on the nature of physical phenomena, the conceptual development of physics, and related cultural influences.

PHYS 194 PHYSICS IN ACTION (1-0-1)

PHYS 201(F) WAVES AND OPTICS (3-0-3)
Third semester of the four-semester sequence in physics for science and engineering students. See also PHYS 231.

PHYS 202(S) MODERN PHYSICS (3-0-3)
Final semester of the four-semester sequence in physics for science and engineering students.

PHYS 203(S) ATMOSPHERE, WEATHER, AND CLIMATE (3-0-3)
This course emphasizes the fundamental science of the atmospheric system. Among the subjects to be covered quantitatively are climate changes, solar radiation and the Earth’s energy budget, atmospheric motions and circulation, clouds and storms, and atmospheric environmental concerns. Also offered as NSCI 203.

PHYS 231(F) ELEMENTARY PHYSICS LABORATORY II (0-3-1)
Recommended for students enrolled in PHYS 201.

PHYS 301(F) INTERMEDIATE MECHANICS (4-0-4)
Study of classical mechanics and appropriate mathematical methods, with emphasis on problem solving.

PHYS 302(S) INTERMEDIATE ELECTRODYNAMICS (4-0-4)
Study of classical electrodynamics and appropriate mathematical methods, with emphasis on problem solving.

PHYS 311(F) INTRODUCTION TO QUANTUM PHYSICS I (3-0-3)
Survey of the fundamentals of quantum mechanics and applications.

PHYS 312(S) INTRODUCTION TO QUANTUM PHYSICS II (3-0-3)
Continuation of PHYS 311.

PHYS 331 JUNIOR PHYSICS LABORATORY I (0-6-2)

PHYS 332 JUNIOR PHYSICS LABORATORY II (0-6-2)

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
PHYS 411(F)  INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS (3-0-3)
Undergraduate version of PHYS 542.

PHYS 412(S)  SOLID-STATE PHYSICS (3-0-3)

PHYS 425(F)  STATISTICAL AND THERMAL PHYSICS (3-0-3)

PHYS 443(F)  ATMOSPHERIC SCIENCE (3-0-3)
Subjects studied include radiation, climate dynamics; energy balance models; structure and stability; water, cloud and precipitation physics; atmospheric dynamics; storms and special systems; and atmospheric electricity. Prerequisite: open to upper-level undergraduates and graduate students in science and engineering with permission of instructor. Also offered as ENVI 443.

PHYS 461/462  INDEPENDENT RESEARCH (hours variable)
Reading course in special topics.

PHYS 480(S)  INTRODUCTION TO PLASMA PHYSICS (3-0-3)
Fundamental processes in cosmic and laboratory plasmas: gas dynamics, kinetic theory, magnetohydrodynamics, wave and shocks, individual particle drifts, collisions and electrical conductivities, geometric and distribution instabilities. Prerequisite: PHYS 302 (or equivalent).

PHYS 491/492  UNDERGRADUATE RESEARCH (0-6-2)
Research projects conducted under supervision of departmentally approved faculty. Open to juniors and seniors majoring in physics and astronomy. May be repeated for credit. PHYS 493/494 must be taken concurrently with PHYS 491/492 when used in partial fulfillment of B.S. degree requirements.

PHYS 493/494  UNDERGRADUATE RESEARCH SEMINAR (1-0-1)
Weekly seminar for juniors and seniors in which presentations on research topics and/or topics in the scientific literature will be given. Open to juniors and seniors majoring in physics and astronomy department. May be repeated for credit.

PHYS 510  MAGNETOSPHERIC PHYSICS (3-0-3)
Plasma physics of the Earth’s magnetosphere, including interactions of the magnetosphere with the solar wind, the ionosphere, and the neutral atmosphere. The emphasis is on large-scale physics, but small-scale waves and instabilities are discussed in some detail in cases where they affect the large-scale phenomena. Not offered 2001–2002.

PHYS 512  IONOSPHERIC PHYSICS (3-0-3)

PHYS 515(F)  CLASSICAL DYNAMICS (3-0-3)
Lagrangian and Hamiltonian mechanics.

PHYS 516(F)  MATHEMATICAL METHODS (3-0-3)
Survey of analytical and numerical methods used by research physicists and astronomers. Includes complex variables, the evaluation of integrals, variational calculus, ordinary and partial differential equations, special functions, and transform methods.

PHYS 519  PLASMA KINETIC THEORY (3-0-3)

PHYS 520  NONLINEAR PLASMA DYNAMICS (3-0-3)
Examination of nonlinear dynamics and nonlinear processes in plasmas. May include Hamiltonian dynamics and perturbation theory, KAM theory, Hamiltonian chaos, area-preserving mappings, the transition to global chaos, dissipative systems, BGK modes, nonlinear fluid waves, parametric instabilities, and the weak turbulence theory. Prerequisite: PHYS 519. Not offered 2001–2002.
PHYS 521(F) QUANTUM MECHANICS I (3-0-3)
Graduate-level study of quantum mechanics.

PHYS 522(S) QUANTUM MECHANICS II (3-0-3)
Continuation of PHYS 521.

PHYS 526(S) STATISTICAL PHYSICS (3-0-3)

PHYS 532(S) CLASSICAL ELECTRODYNAMICS (3-0-3)
Special relativity, covariant formulation of electrodynamics, wave phenomena and charged-particle radiation.

PHYS 535 CRYSTALLOGRAPHY AND DIFFRACTION (3-0-3)
Also offered as MSCI 535. Prerequisite: MSCI 301.

PHYS 541 RADIATIVE PROCESSES (3-0-3)

PHYS 542 INTRODUCTION TO ELEMENTARY PARTICLE PHYSICS (3-0-3)

PHYS 543(S) EXPERIMENTAL NUCLEAR AND PARTICLE PHYSICS (3-0-3)
Continuation of PHYS 542.

PHYS 561 GENERAL RELATIVITY (3-0-3)

PHYS 563(F) INTRODUCTION TO SOLID-STATE PHYSICS I (3-0-3)
Includes an introduction to the fundamental concepts of crystalline solids (e.g., crystal structure, the band theory of electrons, and lattice vibration theory). Also offered as ELEC 563.

PHYS 564(S) INTRODUCTION TO SOLID-STATE PHYSICS II (3-0-3)
Continuation of PHYS 563. Includes the scattering of waves by crystals, transport theory, and magnetic phenomena. Also offered as ELEC 564.

PHYS 566(F) SURFACE PHYSICS (3-0-3)

PHYS 569 ULTRAFAST OPTICAL PHENOMENA (3-0-3)
Also offered as ELEC 569.

PHYS 571(F) ATOMIC AND MOLECULAR SPECTRA (3-0-3)
Study of atomic structure, the principles of lasers, and the fundamental interactions of atoms with electromagnetic radiation. Includes coherent effects, laser spectroscopy, quantum optics, and laser cooling of atoms. Prerequisite: PHYS 521.

PHYS 574 SPIN-SENSITIVE ELECTRON SPECTROSCOPIES (3-0-3)

PHYS 600 ADVANCED TOPICS IN PHYSICS (3-0-3)
Lectures and seminars which treat topics of departmental interest. Not offered every year.
PHYS 621 Advanced Quantum Mechanics I (3-0-3)

PHYS 622 Advanced Quantum Mechanics II (3-0-3)

PHYS 663 Condensed Matter Theory: Applications (3-0-3)

PHYS 664(F) Condensed Matter Theory: Many-Body Formalism (3-0-3)

PHYS 700 Teaching Practicum (0-6-3)

PHYS 800 Graduate Research (hours variable)

Polish (PLSH)

The School of Humanities/Department of German and Slavic Studies

PLSH 101(F) Introduction to Polish Language and Culture I (3-1-4)
A selection of textbooks and other materials (audio, video, the Internet) are used in this beginners’ course in the language of Polanski and the Pope. Introductory study of Polish with emphasis on speaking and reading. PLSH 102 must be completed to receive credit for PLSH 101. Instructor: Staff

PLSH 102(S) Introduction to Polish Language and Culture II (3-1-4)
Continuation of PLSH 101. A selection of textbooks and other materials (audio, video, the Internet) are used in this beginners’ course in the language of Polanski and the Pope. Introductory study of Polish with emphasis on speaking and reading. Prerequisite: PLSH 101. Instructor: Staff

Political Science (POLI)

The School of Social Sciences

POLI 209(S) Introduction to Constitutionalism and Modern Political Thought [T] (3-0-3)
Study of constitutionalism and authoritarianism from Machiavelli to Marx. Includes an introduction to contemporary ideologies. With POLI 210 meets state professional requirements for teachers. Enrollment limited to 100. Not offered 2001–2002. Instructor: Cuthbertson

POLI 210(S) American Government and Politics [A] (3-0-3)
Exploration of major topics in American politics. Includes public opinion, group politics, political parties, elections, congressional-presidential-bureaucratic politics, and judicial politics. With POLI 209 meets state professional requirements for teachers. Enrollment limited to 75. Instructor: Black

POLI 211 International Relations [I] (3-0-3)
Introduction to the study of international relations. Includes a range of topics, from the role of individuals to the impact of the international system, as well as major issues such as the causes of war and problems of development in the Third World. Enrollment limited to 75. Instructors: Leeds, Stoll

(F) = fall; (S) =
POLI 300(F)  FEDERALISM AND INTERGOVERNMENTAL POLITICS [A] (3-0-3)
An exploration of the politics, demographics, technology, and legal environment of 21st-century legislative redistricting. In addition to lectures and readings, the course includes an introduction to a computer-based geographical information system that the students will use to complete a redistricting simulation. Enrollment limited to 40. Not offered 2001–2002. Instructors: Alford, Hobby

POLI 301(F)  STATE POLITICS [A] (3-0-3)
Exploration of the constraints and influences affecting the adoption and implementation of public policies in the American states. Enrollment limited to 40. Not offered 2001–2002.

POLI 305(F)  DIRECTED READING I (hours variable)
Independent reading under the supervision of a member of the department. Open to majors in the honors program with junior standing and to others in special cases with the permission of the instructor. Instructor: Stoll

POLI 306(S)  DIRECTED READING II (hours variable)
See POLI 305. Instructor: Stoll

POLI 307  POLITICAL SCIENCE INTERNSHIP I (2 hours credit)
This course is the in-class component of the political science internship program. Students will read both a common set of materials and a set that is oriented to their forthcoming internship. A final paper is required. Prerequisite: permission of instructor. Instructor: Staff

POLI 308  POLITICAL SCIENCE INTERNSHIP II (1 to 2 hours credit)
This course is the work component of the political science internship program. Students will be required to submit weekly progress reports and a final portfolio. Prerequisite: permission of instructor. Instructor: Staff

POLI 315(F)  ELECTIONS AND VOTING BEHAVIOR [A] (3-0-3)

POLI 317(F)  CONGRESS [A] (3-0-3)
Examination of the role of Congress in the American political system. Includes the historical development of Congress, the current status of Congress, and the functions of Congress in the American political system. Enrollment limited to 40. Instructor: Wilson

POLI 318(S)  THE PRESIDENCY [A] (3-0-3)
Analysis of presidential powers and behavior in the context of legal, electoral, personal, and other forces that shape and limit the actions of the President. Enrollment limited to 40. Not offered 2001–2002. Instructor: Staff

POLI 321(S)  AMERICAN CONSTITUTIONAL LAW [A] (3-0-3)
Study of the interpretation of the Constitution by the Supreme Court. Open to juniors and seniors preferably. Enrollment limited to 50. Instructor: Cuthbertson

POLI 330(S)  MINORITY POLITICS [A] (3-0-3)
This course examines the political and social position of minority groups (African Americans, Asian Americans, Native Americans, Latinos, and women) in the American political system. The goal of the course is to explore the political power and behavior of these groups within society and politics, involving the exploration of key concepts such as racism, discrimination, resources, political power, culture, leadership, class, and inequality. Enrollment limited to 40. Not offered 2001–2002. Instructor: Branton

POLI 331(S)  ENVIRONMENTAL POLITICS AND POLICY [A] (3-0-3)
Considers the major issues in the increasingly important policy area of the environment. Emphasizes the American experience but also considers certain crucial international aspects of these issues. Enrollment limited to 40. Instructor: Staff

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
POLI 332(S)  URBAN POLITICS  [A] (3-0-3)  
Exploration of issues of political behavior and public policy in urban and metropolitan areas.  Includes urban decline, regional governance, revitalization, and issues of ethnic and racial conflict.  See also POLI 432.  Enrollment limited to 40.  Instructor: Stein

POLI 333(S)  COMPARATIVE LEGISLATURES  [C] (3-0-3)  
Examination of similarities and differences of legislatures in different countries.  Includes the causes and consequences of these differences.  See also POLI 433.  Enrollment limited to 40.  Not offered 2001–2002.  Instructor: Hamm

POLI 334(S)  PARTIES AND INTEREST GROUPS  [A] (3-0-3)  
Examination of the organization and behavior of political parties and interest groups within the American political system, with emphasis on the extent to which these organizations operate differently across the national, state, and local levels of government.  See also POLI 434.  Enrollment limited to 40.  Instructor: Hamm

POLI 335  POLITICAL ENVIRONMENT OF BUSINESS  [A] (3-0-3)  

POLI 336(F)  POLITICS OF REGULATION  [A] (3-0-3)  
This course will focus principally on government regulation of business and the political factors that shape its content.  Enrollment limited to 40.  Instructor: Branton

POLI 337(F)  PUBLIC POLICY AND BUREAUCRACY  [A] (3-0-3)  
Exploration of the role that public bureaucracy plays in national policy making.  Includes an examination of sources of agency power, which are linked to different policy outcomes.  Enrollment limited to 40.  Instructor: Staff

POLI 338(S)  POLICY ANALYSIS  [A] (3-0-3)  
Familiarizes students with the analytical tools necessary for evaluating and analyzing public policies.  Also offered as SOSC 301.  Enrollment limited to 30.  Instructor: Ostdiek

POLI 339(F)  SOUTHERN POLITICS  [A] (3-0-3)  
Examination of selected political patterns and trends in the modern South.  Includes political developments within the region and the impact of the South on American politics generally.  Enrollment limited to 40.  Not offered 2001–2002.  Instructor: Black

POLI 340  ANCIENT AND MEDIEVAL POLITICAL THEORY  [T] (3-0-3)  
Study of the sources of ancient and medieval political thought, with emphasis on the historical analysis of political philosophy and mythology and the influence of Plato and Aristotle.  Not offered 2001–2002.  Instructor: Cuthbertson

POLI 341(F)  GENDER AND POLITICS  [A] (3-0-3)  
Examination of politics through the lens of gender hierarchy.  Emphasis on how the constructions of masculinity and femininity shape and are shaped by interacting economic, political, and ideological practices.  Enrollment limited to 30.  Instructor: Branton

POLI 353(S)  REFORM IN POST-MAO CHINA  [C] (3-0-3)  
Study of the origins and development of the gradual but revolutionary political and economic reforms in China, with emphasis on the changing roles of the Communist Party, of the central bureaucracy and local governments, of the military, of the emerging entrepreneurial class, and of the 80 million members of the overseas Chinese community.  Enrollment limited to 40.  Not offered 2001–2002.  Instructor: Staff

POLI 354(S)  LATIN AMERICAN POLITICS  [C] (3-0-3)  
Study of the political process in contemporary Latin America, with emphasis on selected major countries.  Enrollment limited to 40.  Instructor: Brown
POLI 355(F)  GOVERNMENT AND POLITICS OF THE MIDDLE EAST [C] (3-0-3)
A brief historical overview is combined with description of political systems in the Middle East. These states are then used to critique theories of comparative politics. Enrollment limited to 40. Not offered 2001–2002. Instructor: Staff

POLI 356(S)  POLITICS OF LATIN AMERICAN DEVELOPMENT [C] (3-0-3)
This course examines the evolution of economic development in Latin America, focusing on its political foundations. Special attention will be given to the interaction between economic growth and the construction of democratic political institutions in Latin America. Enrollment limited to 40. Not offered 2001–2002. Instructor: Brown

POLI 360(S)  WESTERN EUROPEAN DEMOCRACIES [C] (3-0-3)
Survey of government and politics in Western European democracies, with emphasis on Great Britain, France, and Germany. Enrollment limited to 40. Instructor: Ambler

POLI 362(F)  EUROPEAN INTEGRATION [C] (3-0-3)
Examination of European integration since World War II, with emphasis on the European Community (EC) and its institutions and policy processes, as well as the consequences of European unity for the political process in European societies. Enrollment limited to 40. Not offered 2001–2002. Instructor: Stevenson

POLI 365(F)  POLITICS OF FRANCE [C] (3-0-3)
Study of political institutions, parties, and culture, as well as public policy, in contemporary France from a historical and comparative perspective. Enrollment limited to 40. Not offered 2001–2002. Instructor: Ambler

POLI 366(F)  ELECTIONS IN WESTERN DEMOCRACIES [C] (3-0-3)

POLI 367(F)  SOVIET AND POST-SOVIET POLITICS [C] (3-0-3)
This course will examine the political system of the Soviet Union, why it lasted and why it collapsed. It will focus on the transition from Soviet rule to market democracy and the various problems of transition across the former Soviet republics. Enrollment limited to 25. Instructor: Javeline

POLI 372(F)  AMERICAN FOREIGN POLICY [I] (3-0-3)
Examination of internal and external aspects of foreign policy leadership, presidential initiative, congressional control, press, public opinion, and crisis management. May not take as a managerial studies elective. Enrollment limited to 40. Instructor: Staff

POLI 373(S)  INTERNATIONAL CONFLICT [I] (3-0-3)
Exploration of the theoretical basis of, and empirical evidence for, a number of explanations for interstate war. Includes contemporary theories dealing with dispute escalation, arms races, deterrence, crisis management, and low-intensity conflict. Enrollment limited to 40. Not offered 2001–2002. Instructor: Staff

POLI 374(F)  STRATEGIC INTERACTIONS IN INTERNATIONAL RELATIONS [I] (3-0-3)
Introduction to the uses of game theory in the study of international relations. Enrollment limited to 40. Not offered 2001–2002. Instructor: Morgan

POLI 375(F)  INTERNATIONAL ORGANIZATION [I] (3-0-3)
Study of the development and role of international organizations in world politics. Topics include the history and evolution of international organizations, the effects of international law on behavior, and the extent to which international cooperation has been effective at resolving global problems. Enrollment limited to 40. Instructor: Leeds

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
POLI 378(S)  POLITICS OF AMERICAN NATIONAL SECURITY [I] (3-0-3)
Examination of major issues of national security policy. Includes strategic doctrines, policy-making processes on defense issues, arms control, and the defense of Europe. Not a managerial studies elective. Enrollment limited to 75. Instructor: Stoll

POLI 379(S)  PROBLEMS IN INTERNATIONAL RELATIONS [I] (3-0-3)
Enrollment limited to 40. Instructor: Staff

POLI 382(S)  PUBLIC OPINION, POLLING, AND THE MEDIA [A] (3-0-3)
Study of survey research methodology as it applies to political opinion polling. Includes theories of attitude formation and change, the impact of the media on public opinion, and measurement issues in the survey research process. Prerequisites: prior course work in the social sciences and permission of instructor. See also POLI 496. Enrollment limited to 13. Not offered 2001–2002. Instructor: Staff

POLI 395  INTRODUCTION TO STATISTICS [T] (3-0-3)
Introduction to research design and quantitative methods used in contemporary political science research. Students will apply the tools of social science inquiry in a series of projects designed to examine political attitudes and behavior. Enrollment limited to 13. Instructor: Alford

POLI 401(S)  STATE POLITICS RESEARCH SEMINAR [A] (3-0-3)
A research seminar in state politics and policy with an emphasis on state institutions. Enrollment limited to 13. Instructor: Brace

POLI 405(F)  SENIOR THESIS (3-0-3 each semester)
POLI 406(S)
Open to senior honors majors with the permission of the department. Must complete both POLI 405 and 406 to receive credit. Prerequisite: permission of instructor. Enrollment limited to 20. Instructor: Stoll

POLI 410(F)  ADJUDICATION OF CURRENT SOCIAL ISSUES [A] (3-0-3)
Examination of how most political and social questions in America (as Tocqueville observed) ultimately become judicial questions. Includes current developments in basic constitutional issues, property, contracts, torts, crimes, corporate responsibility, and privacy. Prerequisite: permission of instructor. Enrollment limited to 15. Not offered 2001–2002. Instructor: Hudspeth

POLI 418(F)  SEMINAR ON THE PRESIDENCY [A] (3-0-3)
This seminar provides students with a broad introduction to the presidency. Topics covered include a review of the executive’s constitutional powers and how they have changed over time; the processes and politics of presidential nomination and election; struggles between the president and other political elites in our system; and the dynamics of White House decision-making. Enrollment limited to 15. Not offered 2001–2002. Instructor: Brace

POLI 425(S)  POLITICAL SOCIOLOGY [A] (3-0-3)

POLI 430  SEMINAR IN TEXAS POLITICS [A] (3-0-3)
Research seminar in the history of Texas politics. Prerequisite: permission of instructor. Enrollment limited to 20. Instructor: Cuthbertson

POLI 432(F)  URBAN POLITICS [A] (3-0-3)
Enriched version of POLI 332, conducted as a research seminar. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Hamm

(F) = fall; (S) =
POLI 435(S)  POLITICAL PARTICIPATION [A] (3-0-3)
Seminar will consider normative issues, theories, and empirical evidence relating to the value, meaning, and consequences of political participation, with readings taken from American and comparative politics. Enrollment limited to 13. Instructor: Alford

POLI 436(S)  POLITICS OF REGULATION [A] (3-0-3)

POLI 438(S)  RACE AND PUBLIC POLICY [A] (3-0-3)
Study of minority group politics and how race structures contemporary U.S. politics. Includes the myths and realities of minority groups, symbolic politics and race, pluralism as a model of U.S. democracy, the intersection of class, race, and gender, civil rights movements, group consciousness, public opinion regarding minorities, and the response of national institutions to issues of race. Enrollment limited to 13. Instructor: Branton

POLI 439(F)  RESEARCH SEMINAR ON SOUTHERN POLITICS [A] (3-0-3)
Examination of political behavior and political institutions in the southern states, with emphasis on contemporary Texas politics. Enrollment limited to 13. Instructor: Black

POLI 441(S)  COMMON PROPERTY RESOURCES [T] (3-0-3)
Common Property Resources (CPRs), such as fisheries, aquifers, and the Internet, appear in many guises and pose a fundamental problem for governing. This course explores the theoretical underpinnings for CPRs, their growing literature, and the political and economic institutions that mediate CPR dilemmas. Students will engage in an original research project in conjunction with the instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Wilson

POLI 456(F)  REGIME TRANSFORMATIONS AND TRANSITIONS [C] (3-0-3)
This course examines why political systems may change from democratic to authoritarian, or vice versa. It distinguishes between different regime types and explores the conditions promoting social movements, political unrest, and military coups. The course examines factors that help to consolidate the newly formed regimes. Examples are drawn from a variety of postcolonial states. Enrollment limited to 13. Not offered 2001–2002. Instructor: Staff

POLI 457(S)  CONDITIONS OF DEMOCRACY [C] (3-0-3)
This course starts with definitions and theories/preconditions of democracy and then looks at specific cases of democratic transition throughout the world, democratic consolidation, reaction, and the prospects for the future. Enrollment limited to 13. Instructor: Javeline

POLI 460(F)  TOPICS IN COMPARATIVE POLITICS [C] (3-0-3)

POLI 462(F)  COMPARATIVE PUBLIC POLICY [C] (3-0-3)
Seminar examining the process and substance of public policy across nations, with emphasis on social policy in industrialized democracies. Prerequisite: permission of instructor. Enrollment limited to 13. Instructor: Ambler

POLI 463(S)  COMPARATIVE POLITICAL ECONOMY [C] (3-0-3)
Seminar exploring the interrelationship of economics and politics in advanced industrial societies. Includes economic policy making, political behavior and economic conditions, and the role of institutions in channeling conflicts between democracy and capitalism. Enrollment limited to 13. Instructor: Brown

POLI 464(S)  POLITICAL ECONOMY OF DEVELOPMENT [C] (3-0-3)
A central priority developing nations face today concerns establishing economic growth; how best to achieve strong economic performance has both an economic and political dimension. This course seeks a rudimentary understanding of economic growth, concentrating on its political determinants. Enrollment limited to 13. Not offered 2001–2002. Instructor: Brown

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
POLI 466(F)  POLITICAL PARTIES AND VOTING BEHAVIOR IN WESTERN DEMOCRACIES  [C] (3-0-3)
Seminar on the determinants of party systems, the structure and functions of parties, and theories of voting behavior in Western democracies. Enrollment limited to 13.  *Instructor: Stevenson*

POLI 470  SPECIAL TOPIC: INTERNATIONAL RELATIONS  [I] (3-0-3)
Topic varies from year to year. Offered irregularly. May be repeated for credit. Enrollment limited to 13.  *Instructor: Morgan*

POLI 473(S)  SEMINAR ON DOMESTIC POLICY  [A] (3-0-3)

POLI 476(S)  INTERNATIONAL POLITICAL ECONOMY  [I] (3-0-3)
This course is designed to survey the theoretical and empirical analyses of the politics of international economic relations. In particular, the course is designed to examine the interrelationships of economics and politics by applying economic theory to the study of politics. Enrollment limited to 13. Not offered 2001–2002.  *Instructor: Staff*

POLI 480(F)  SEMINAR ON POLITICAL BEHAVIOR  [A] (3-0-3)
Research seminar in political behavior, with emphasis on the application of social and cognitive psychology to the study of mass political behavior. Includes political socialization, models of voting behavior, and political participation. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002.  *Instructor: Staff*

POLI 490(F)  MODERN POLITICAL THEORY AND INTERDISCIPLINARY FIELDS  [T] (3-0-3)

POLI 502(F)  INTRODUCTION TO STATISTICS  [T] (3-0-3)
Development of a working knowledge of statistics in political science. Includes the study of descriptive and inferential statistics, as well as "hands-on" experience with computer statistical packages. Prerequisite: permission of instructor. Also offered as STAT 495. Enrollment limited to 13.  *Instructor: Branton*

POLI 503(S)  TOPICS IN METHODS AND DATA ANALYSIS  [T] (3-0-3)
Study of applications of least squares and general linear model. Also offered as STAT 503. Enrollment limited to 13.  *Instructor: Stevenson*

POLI 504(F)  ADVANCED TOPICS IN METHODOLOGY AND DATA ANALYSIS  [T] (3-0-3)

POLI 510(F)  SCOPE AND METHODS  [T] (3-0-3)
Introduction to research in political science, problems of the discipline, and basic political concepts. Includes the history of political science as a discipline. Prerequisite: permission of instructor. Enrollment limited to 13.  *Instructor: Wilson*

POLI 511(F)  MEASUREMENT AND RESEARCH DESIGN  [T] (3-0-3)
Study of advanced topics in research design and measurement theory. Prerequisite: permission of instructor. Enrollment limited to 13.  *Instructor: Wilson*

POLI 520(F)  APPROACHES TO COMPARATIVE GOVERNMENT  [C] (3-0-3)
Core graduate course. Includes an analysis of basic approaches to the study of comparative government. Open to undergraduates with permission of instructor. Enrollment limited to 13.  *Instructor: Brown*
POLI 525(S)  COMPARATIVE POLITICS OF WESTERN DEMOCRACIES [C] (3-0-3)

POLI 527(S)  INSTITUTIONAL ANALYSIS AND DESIGN [A] (3-0-3)
Examination of applications of organization theory to the study of American political institutions. Enrollment limited to 13. Instructor: Wilson

POLI 530(S)  APPROACHES TO AMERICAN GOVERNMENT [A] (3-0-3)
Core graduate course. Includes an analysis of basic approaches to the study of American politics. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Hamm

POLI 531(F)  STATE POLITICS [A] (3-0-3)
Examination of similarities and differences in the organization of state politics. Includes state legislative organization, state elite behavior, and policy implementation. Enrollment limited to 13. Instructor: Brace

POLI 532(F)  COMPARATIVE LEGISLATURES [C] (3-0-3)
Provides the student with the basic concepts and theories necessary to understand the functions and organization of legislatures/parliaments/assemblies in democratic societies. This course takes a broad-based perspective, including research that focuses on national parliaments and U.S. state legislatures. Prerequisite: permission of instructor. Enrollment limited to 13. Instructor: Hamm

POLI 533(S)  ADVANCED TOPICS IN POLITICAL BEHAVIOR [A] (3-0-3)
Graduate research seminar in the subfield of political behavior. Content varies from year to year. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Alford

POLI 534(F)  INTEREST GROUPS AND POLITICAL PARTIES [A] (3-0-3)
Graduate research seminar in the subfields of interest groups and political behavior. Prerequisite: permission of instructor. Enrollment limited to 13. Instructor: Hamm

POLI 537(F)  PUBLIC POLICY AND BUREAUCRACY [A] (3-0-3)
Study of the administration and implementation of public policies across federal, state, and sub-state governments. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Stein

POLI 540(F)  INTERNATIONAL RELATIONS [I] (3-0-3)
Core graduate course. Includes an analysis of basic approaches to the study of international relations. Open to qualified undergraduates with permission of instructor. Enrollment limited to 13. Instructor: Leeds

POLI 556(F)  REGIME TRANSFORMATIONS AND TRANSITIONS [C] (3-0-3)
This course explores theories of development and transition among political systems. Focus is primarily on postcolonial states, with some comparison with the development of Western democracies. Enrollment limited to 13. Not offered 2001–2002. Instructor: Staff

POLI 563(S)  COMPARATIVE POLITICAL ECONOMY [C] (3-0-3)
Graduate seminar that examines the interrelationship between politics and economics in modern democracies. This examination includes questions concerning the way that economic outcomes and policies affect the electoral support of parties, as well as how economic policy responds to electoral outcomes. Enrollment limited to 13. Not offered 2001–2002. Instructor: Stevenson

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
POLI 564(S)  POLITICAL ECONOMY OF DEVELOPMENT [C] (3-0-3)
A central priority developing nations face today concerns establishing economic growth; how best to achieve strong economic performance has both an economic and political dimension. This course seeks a rudimentary understanding of economic growth, concentrating on its political determinants. Enrollment limited to 13. Not offered 2001–2002. Instructor: Brown

POLI 565(F)  POLITICAL PROTEST [C] (3-0-3)
This course looks at various theories of collective action and social movements. It will examine theoretical debates about why individuals and groups occasionally redress their grievances through protest and more often endure hardships passively. It will evaluate the relative merit of these theories in explaining cases of protest and passivity worldwide. Enrollment limited to 13. Instructor: Javeline

POLI 566(F)  POLITICAL PARTIES AND VOTING BEHAVIOR IN WESTERN DEMOCRACIES [C] (3-0-3)
Graduate seminar that examines the theoretical literature on party development, organization, and change in Western democracies. Enrollment limited to 13. Not offered 2001–2002. Instructor: Stevenson

POLI 570(F)  SEMINAR IN INTERNATIONAL CONFLICT [I] (3-0-3)
Seminar in international conflict. Emphasis on formal theories and quantitative analysis of the causes of war. Enrollment limited to 13. Instructor: Stoll

POLI 572(F)  FOREIGN POLICY DECISION MAKING [I] (3-0-3)

POLI 574(F)  COLLECTIVE SOCIAL CHOICE [T] (3-0-3)
Introduction to a growing body of literature on how and why individual preferences dominate those of others. Includes the relationship between decision-making structures and the nature of decisional outcomes. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Wilson

POLI 575(S)  GAME THEORY [T] (3-0-3)
Examination of current developments in game theory with applications to political science. Prerequisite: permission of instructor. Enrollment limited to 13. Not offered 2001–2002. Instructor: Morgan

POLI 576(S)  INTERNATIONAL POLITICAL ECONOMY [I] (3-0-3)
Seminar surveying some of the primary theoretical perspectives and analytical approaches for studying international political economy. Includes a survey of contemporary literature, with special emphasis on theory and research, as well as instructions in how to critically evaluate research and set up a research project. Enrollment limited to 15. Not offered 2001–2002. Instructor: Staff

POLI 579(F)  SEMINAR IN MODELING INTERNATIONAL RELATIONS [I] (3-0-3)
Topic varies from year to year. Enrollment limited to 13. Instructor: Morgan

POLI 580(S)  TOPICS IN AMERICAN POLITICS [A] (3-0-3)

POLI 580(F)  SEMINAR IN AMERICAN POLITICS [A] (3-0-3)

POLI 591(F)  DIRECTED READING—METHODOLOGY [T] (3-0-3)
Instructor: Brace

POLI 592(S)  DIRECTED READING—METHODOLOGY [T] (3-0-3)
Instructor: Brace

(F) = fall; (S) =
POLI 593(F)  DIRECTED READING—AMERICAN
POLI 594(S)  POLITICS [A] (3-0-3 each semester)
  Instructor: Hamm

POLI 595(F)  DIRECTED READING—INTERNATIONAL
POLI 596(S)  RELATIONS [I] (3-0-3 each semester)
  Instructor: Stoll

POLI 597(F)  DIRECTED READING—COMPARATIVE
POLI 598(S)  POLITICS [C] (3-0-3 each semester)
  Instructor: Ambler

POLI 599  TEACHING POLITICAL SCIENCE (1-0-1)
  Preparation for designing and teaching classes at the college level. Prerequisite: graduate standing
  and permission of instructor. Instructor: Stoll

POLI 600  M.A. RESEARCH AND THESIS (hours variable)
  Instructor: Stoll

PORTuguese (PORT)

PORT 101(F)  INTRODUCTION TO PORTUGUESE LANGUAGE AND CULTURE I (3-1-4)
  Introduction to the study of the Portuguese language and culture, with emphasis on the development
  of listening, speaking, reading, and writing. This course uses textbooks as well as music, websites,
  and videos for access to various kinds of cultural material and pretexts for communication. Includes
  an hour per week of lab work. PORT 101 is designed for students with little or no knowledge of
  the Portuguese language. Enrollment is limited to 20 students per class. Instructor: Bloem

PORT 102(S)  INTRODUCTION TO PORTUGUESE LANGUAGE AND CULTURE II (3-1-4)
  Continuation of PORT 101. Prerequisite: PORT 101, placement, or permission of coordinator.
  Enrollment limited to 20. Instructor: Bloem

PORT 201(F)  INTERMEDIATE PORTUGUESE LANGUAGE AND CULTURE I (3-0-3)
  Students progress to more creative oral and written communication activities. Texts, music, videos,
  and the internet will be used to address a wide variety of topics and real-life situations. Prerequisites:
  PORT 101 and 102 or permission of instructor. Enrollment limited to 20. Instructor: Bloem

PORT 202(S)  INTERMEDIATE PORTUGUESE LANGUAGE AND CULTURE II (3-0-3)
  Students will continue to develop communicative oral and written competence in Portuguese using
  texts, music, films, and the web as sources for authentic cultural material in diverse areas. Prereq-
  uisites: PORT 201 or permission of instructor. Enrollment limited to 20. Instructor: Bloem

PORT 400  INDEPENDENT STUDY (0-0-3)
  Open to qualified students interested in a topic not covered in other courses. Prerequisite: permis-

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
Psychology (PSYC)

The School of Social Sciences

PSYC 101  INTRODUCTION TO PSYCHOLOGY (3-0-3)
Survey of topics, problems, and approaches in contemporary psychology. Includes the biological basis of behavior, sensation, perception, attention, learning and memory, thinking, language, abnormal behavior and therapies, personality and individual differences, child development, and social processes. Required for psychology majors. Instructors: Burnett, Laughery, Osherson, Pomerantz, Schneider

PSYC 102  READINGS IN PSYCHOLOGY (1-0-1)
Discussion of articles and research reports in psychology. Prerequisite: permission of instructor. Corequisite: PSYC 101. Instructor: Staff

PSYC 202(F)  INTRODUCTION TO SOCIAL PSYCHOLOGY (3-0-3)
Overview of topics in social psychology. Includes conformity and social influence, attitude change and the mass media, aggression, altruism, relationships, liking and loving, prejudice and stereotyping, and socialization. Required for psychology majors. Prerequisite: PSYC 101. Instructors: Dipboye, Hebl, Schneider

PSYC 203(S)  INTRODUCTION TO COGNITIVE PSYCHOLOGY (3-0-3)
Overview of topics in cognitive psychology. Includes perception, attention, memory, psycholinguistics, thinking and reasoning, problem solving, concept formation, and decision making. Required for psychology majors. Prerequisite: PSYC 101. Instructors: Byrne, Ro

PSYC 221(F)  DEVELOPMENTAL PSYCHOLOGY (3-0-3)
Study of behavioral changes with age and general laws of development in both human and nonhuman species. Prerequisite: PSYC 101. Instructor: Staff

PSYC 231(S)  INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY (3-0-3)
Overview of the principles, techniques, and theories of psychology applied in the industrial setting. Prerequisite: PSYC 101. Instructor: Dipboye

PSYC 308(S)  MEMORY (3-0-3)
Critical review of traditional and contemporary approaches to the study of remembering and forgetting. Prerequisites: PSYC 101 and 203 or permission of instructor. Enrollment limited to 50. Instructor: Watkins

PSYC 309(S)  PSYCHOLOGY OF LANGUAGE (3-0-3)
Study of human and other animal communication. Includes the structure of human language, word meaning and semantic memory, psychological studies of syntax, bilingualism, language and thought, and language errors and disorders. Prerequisites: PSYC 101 and 203 or permission of instructor. Also offered as LING 309. Offered in alternate years. Enrollment limited to 50. Not offered 2001–2002. Instructor: Martin

PSYC 315(S)  SEMANTICS (3-0-3)
Basic approaches to the study of meaning in linguistics and related fields. Topics treated include the cognitive representation of meaning, lexical categorization, conceptual structures, and the relation of language and mind. Prerequisites: LING 200 or permission of instructor. Also offered as LING 315. Instructor: Kemmer

PSYC 329(S)  PSYCHOLOGICAL TESTING (3-0-3)
Study of techniques for measuring individual differences and a critical review of the theories of individual differences in intelligence and personality. Prerequisites: PSYC 101 and 339 and permission of instructor. Enrollment limited to 50. Instructor: Tonidandel

(F) = fall; (S) =
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 330(F)</td>
<td>PERSONALITY THEORY</td>
<td>(3-0-3)</td>
<td>Examination of those aspects of personality emphasized by major theorists past and present. Prerequisites: PSYC 101 and 202. Enrollment limited to 50. Instructor: Dipboye</td>
</tr>
<tr>
<td>PSYC 331(S)</td>
<td>THE PSYCHOLOGY OF GENDER</td>
<td>(3-0-3)</td>
<td>Overview of research and theory on gender in psychology. The myths and stereotypes associated with women and men in society; the social, biological, and psychological gender differences identified in research. Offered every other year. Also offered as WGST 331. Instructor: Hebl</td>
</tr>
<tr>
<td>PSYC 332(S)</td>
<td>ABNORMAL BEHAVIOR</td>
<td>(3-0-3)</td>
<td>Study of the diagnosis and treatment of mental disorders. Prerequisites: PSYC 101 and 202. Enrollment limited to 50. Instructor: Staff</td>
</tr>
<tr>
<td>PSYC 339(F)</td>
<td>STATISTICAL METHODS—PSYCHOLOGY</td>
<td>(3-1-4)</td>
<td>Introduction to quantitative and computer methods applicable to the analysis of experimental data. Required for psychology majors. Prerequisite: PSYC 101 or permission of instructor. Also offered as STAT 339. Enrollment limited to 50. Instructors: Lane, Quiñones</td>
</tr>
<tr>
<td>PSYC 340(S)</td>
<td>RESEARCH METHODS</td>
<td>(3-1-4)</td>
<td>Continuation of PSYC 339, with emphasis on individual student experiments and the writing of research reports. Required for psychology majors. Prerequisites: PSYC 101 and 339. Enrollment limited to 25. Instructors: Burnett, Byrne, Hebl, Watkins</td>
</tr>
<tr>
<td>PSYC 342(F)</td>
<td>COMPUTER APPLICATIONS</td>
<td>(3-0-3)</td>
<td>Study of the use of small computers in psychological research. Prerequisite: permission of instructor. Enrollment limited to 10. Instructor: Lane</td>
</tr>
<tr>
<td>PSYC 350(F)</td>
<td>PSYCHOLOGY OF LEARNING</td>
<td>(3-0-3)</td>
<td>Theoretical and empirical explorations into the topic of learning. Includes both historically important theoretical positions and modern perspectives, as well as human and animal research. Prerequisites: PSYC 101 and 203 or permission of instructor. Enrollment limited to 20. Instructors: Brelsford, Burnett</td>
</tr>
<tr>
<td>PSYC 351(F)</td>
<td>PSYCHOLOGY OF PERCEPTION</td>
<td>(3-0-3)</td>
<td>Overview of the sensory and cognitive processes involved in human vision and audition. Prerequisites: PSYC 101 and 203 or permission of instructor. Offered in alternate years. Instructors: Pomerantz, Potts, Ro</td>
</tr>
<tr>
<td>PSYC 352(F)</td>
<td>FORMAL FOUNDATIONS OF COGNITIVE SCIENCE</td>
<td>(3-0-3)</td>
<td>Survey of mathematical concepts underlying cognitive science, Covers basic topics on set-theory, fuzzy sets, computability, computational complexity, automata, formal languages, logic, Bayesian probability, and neural nets. Instructor: Osherson</td>
</tr>
<tr>
<td>PSYC 360(S)</td>
<td>THINKING</td>
<td>(3-0-3)</td>
<td>Study of the higher mental processes. Includes concept formation, problem solving, decision making, and reasoning. Prerequisites: PSYC 101, 203, 339, and 340 or permission of instructor. Instructors: Osherson</td>
</tr>
<tr>
<td>PSYC 362(F)</td>
<td>BIOPSYCHOLOGY</td>
<td>(3-0-3)</td>
<td>Overview of the neurophysiological correlates of behavior. Prerequisite: PSYC 101. Instructor: Potts</td>
</tr>
</tbody>
</table>

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
PSYC 370(S)  INTRODUCTION TO HUMAN FACTORS AND ERGONOMIC DESIGN (3-0-3)
Application of principles of psychology and human performance to the design of modern systems. Limited enrollment (50). Prerequisite: PSYC 101 or permission of instructor. Instructor: Laughery

PSYC 411(F)  HISTORY OF PSYCHOLOGY (3-0-3)
Survey of the evolution of psychological theory from the Greeks to the present. Includes development of scientific approaches to the study of human thought and behavior. Prerequisites: PSYC 101, 202, and 203. Instructor: Schneider

PSYC 430(S)  COMPUTATIONAL MODELING (3-0-3)
A survey of computational approaches to modeling cognitive processes. The emphasis will be on recent connectionist models, but other approaches will be covered as well. The course will involve evaluation of existing models and hands-on experience in modeling. Also offered as CSCI 410. Instructor: Byrne

PSYC 432(F)  BRAIN AND BEHAVIOR (3-0-3)
The neural basis of higher mental functions in humans such as perception, attention, memory, motor skill, and language will be examined. Claims and controversies from neuropsychology will be examined. Also offered as CSCI 420. Instructor: Ro

PSYC 440(S)  SEMINAR IN ADVANCED GENERAL PSYCHOLOGY (3-0-3)
Discussion of empirically oriented issues drawn from various areas of psychology. Includes extensive reading, with emphasis on a more intensive and mature examination of topics typically discussed in introductory courses. Open to senior psychology majors only. Prerequisite: permission of instructor. Enrollment limited to 15. Instructor: Brelsford

PSYC 450(F)  ANIMAL BEHAVIOR METHODS (3-0-3)
Study of the use of animal behavior as models of various applied human situations. Prerequisite: permission of instructor. Enrollment limited to 5. Instructor: Wright

PSYC 460(S)  THE PSYCHOLOGY OF MOTIVATION (3-0-3)
Study of motives and emotions as causes of behavior. Includes biological motives (e.g., hunger, thirst, and sex), aggression, emotions and emotional expression, individual differences in motivation, and motivation in the workplace. Prerequisite: PSYC 101, 202, or 203. Enrollment limited to 50. Instructor: Quiñones

PSYC 480  ADVANCED TOPICS IN PSYCHOLOGY (3-0-3)
Intensive examination of a topic of contemporary interest to modern psychologists. May be repeated for credit. Prerequisites: PSYC 101, 202, 203 and permission of instructor.

PSYC 485  SUPERVISED RESEARCH IN PSYCHOLOGY (hours variable)
Supervised empirical research. May be repeated for credit. Open only to psychology majors. Students are limited to no more than 9 hours credit in PSYC 485, PSYC 488, or their combination. Prerequisite: permission of instructor. Instructor: Burnett

PSYC 488  SUPERVISED READING IN PSYCHOLOGY (hours variable)
Supervised reading of books and empirical papers on a topic of mutual interest to students and faculty. May be repeated for credit. Open only to psychology majors. Students are limited to no more than 9 credit hours in PSYC 485, PSYC 488, or their combination. Prerequisite: permission of instructor. Instructor: Burnett

PSYC 499  SENIOR THESIS (hours variable)
Prerequisites: PSYC 101, 339, and 340 and permission of instructor. Instructor: Burnett

(F) = fall; (S) =
PSYC 501(F)  INTRODUCTION TO PSYCHOLOGICAL STATISTICS (3-0-3)
Introduction to quantitative and computer methods for analyzing experimental data.

PSYC 502(F)  ADVANCED PSYCHOLOGICAL STATISTICS I (3-0-3)
Introduction to inferential statistics, with emphasis on analysis of variance and multiple regression. Prerequisite: PSYC 501 or permission of instructor. Also offered as STAT 509. *Instructors: Byrne, Lane*

PSYC 503(S)  ADVANCED PSYCHOLOGICAL STATISTICS II (3-0-3)
Continuation of PSYC 502, with emphasis on multiple regression. Includes other multivariate techniques and distribution-free statistics. Prerequisite: PSYC 502 or permission of instructor. Also offered as STAT 510. *Instructor: Lane*

PSYC 504(F)  COMPUTER APPLICATIONS IN PSYCHOLOGY (3-0-3)
Introduction to SAS, Hypercard, Excel, Basic, and other software (software varies from semester to semester), using Macintosh computers, with emphasis on data analysis and computer-based experimentation. *Instructor: Lane*

PSYC 507(S)  RESEARCH METHODS (3-0-3)
Graduate-level treatment of a wide range of laboratory and field research methodologies. Offered in alternate years. *Instructors: Dipboye, Hebl, Quiñones*

PSYC 510  TOPICS IN GENERAL PSYCHOLOGY (3-0-3)
Lectures or seminar discussions on topics of broad interest (e.g., discussions of “great books in psychology”). May be repeated for credit.

PSYC 511(F)  HISTORY AND SYSTEMS OF PSYCHOLOGY (3-0-3)
Study of the philosophical foundations of psychology, the development of scientific models in the 19th century, 20th-century schools of psychology, and the growth of fields of modern psychology. Offered in alternate years. *Instructor: Schneider*

PSYC 512(S)  DECISION MAKING (3-0-3)
Overview of the principal concepts, theories, methods, and evidence associated with human decision functions. Includes examination of both descriptive and normative approaches from behavioral, cognitive, and applied perspectives. Offered every three years. *Instructor: Osherson*

PSYC 520(F)  FOUNDATIONS OF COGNITIVE PSYCHOLOGY (3-0-3)
Introduction to basic topics in cognitive psychology. Includes perception, memory, psycholinguistics, concept formation, problem solving, and decision making. *Instructor: Martin*

PSYC 521(F)  PERCEPTION (3-0-3)
Study of how people interpret sensory signals in a meaningful way. Offered every three years. *Instructors: Pomerantz, Potts, Ro*

PSYC 522(F)  INFORMATION PROCESSING AND ATTENTION (3-0-3)
Study of such problems as information overload, selective attention, response conflict, and automatic and controlled processing. Offered every three years.

PSYC 523(F)  MEMORY AND COGNITION IN ANIMALS (3-0-3)
Lecture, discussion, and laboratory course in learning and behavioral control. Includes the application of conditioning techniques to the study of memory and cognition in animals. Prerequisite: permission of instructor. Enrollment limited to 5. *Instructor: Wright*

PSYC 524(F)  MEMORY (3-0-3)
Overview of issues and research in remembering and forgetting. Offered in alternate years. *Instructor: Watkins*

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
PSYC 525(S) PSYCHOLINGUISTICS (3-0-3)
Study of the psychology of language. Includes the study of speech perception, reading, syntax, meaning, bilingualism, language and thought, and language errors and disorders. Offered in alternate years. Instructor: Martin

PSYC 526(S) ARTIFICIAL INTELLIGENCE AND COGNITIVE SCIENCE (3-0-3)
Study of cognitive processes from the vantage point of the human as a computer, with emphasis on expert systems and their development, parallel distributed processing models, and connectionism. Offered every three years. Instructor: Osherson

PSYC 527(F) THINKING (3-0-3)
Study of the higher mental processes. Includes concept formation, problem solving, decision making, and reasoning. Offered every three years. Instructor: Osherson

PSYC 528(S) COGNITIVE NEUROPSYCHOLOGY (3-0-3)
Study of the implications of neuropsychological data for cognitive theory. Offered in alternate years. Instructors: Martin, Potts, Ro

PSYC 529 COGNITIVE RESEARCH SEMINAR (1-0-1)
Weekly student-staff seminar on current and recent research about mental phenomena. May be repeated for credit. Instructor: Martin

PSYC 530(F) FOUNDATIONS OF I/O PSYCHOLOGY (3-0-3)
Graduate-level introduction to the study of human behavior in the work setting. Prerequisite: permission of instructor. Instructor: Dipboye

PSYC 533 I/O PSYCHOLOGY RESEARCH SEMINAR (3-0-3)
A weekly meeting of students and staff to discuss current and recent research in I/O psychology.

PSYC 540(S) FOUNDATIONS OF ENGINEERING PSYCHOLOGY (3-0-3)
Introduction to basic topics in engineering psychology. Includes methods of systems analysis, display-control design, mental and physical workload analysis, and environmental factors in human performance. Instructor: Byrne

PSYC 541(S) HUMAN-COMPUTER INTERACTIONS (3-0-3)
Study of effective interface design methodology, interaction modes, hypertext, mental models, visual display characteristics, input devices, and on-line help. Instructors: Byrne, Lane

PSYC 542(F) HUMAN RELIABILITY AND SAFETY (3-0-3)
Examination of human reliability in systems, accident analysis techniques, hazard and risk perception, and safety communications. Offered every three years. Instructor: Laughery

PSYC 550(F) FOUNDATIONS OF SOCIAL PSYCHOLOGY (3-0-3)
Review of theories of social psychology, with emphasis on current empirical research. Instructors: Dipboye, Hebl, Schneider

PSYC 551(S) INDIVIDUAL DIFFERENCES AND PERSONALITY (3-0-3)
Examination of individual differences in motivation, behavior, and cognition. Offered every three years. Instructor: Dipboye

PSYC 560 PSYCHOLOGY PRESENTATIONS (2-2-3)
Practicum on oral psychology presentations. May be repeated for credit. Offered in alternate years.

PSYC 561 TEACHING IN PSYCHOLOGY (3-1-3)
Assistance in the teaching of undergraduate and occasionally graduate courses in psychology. May be repeated for credit.
PSYC 571  FIRST-YEAR PROJECT  (0-8-3)
Individual research project undertaken in the first year of the graduate program.

PSYC 572  SECOND-YEAR PROJECT  (0-8-3)
Individual research project undertaken during the second year of the graduate program. May be repeated for credit.

PSYC 573  NONTHESS GRADUATE RESEARCH  (hours variable)
Individual research unrelated to first- or second-year project or thesis. May be repeated for credit.

PSYC 600(S)  TOPICS IN QUANTITATIVE METHODS  (3-0-3)
Discussion of selected topics in quantitative methodology. May be repeated for credit. Offered in alternate years. Instructors: Lane, Martin

PSYC 601(S)  MULTIVARIATE STATISTICS  (3-0-3)
Discussion of multivariate statistics. Includes factor analysis, multiple regression, cluster analysis, multidimensional scaling, discriminate analysis, and structural equations.

PSYC 602(S)  PSYCHOMETRICS  (3-0-3)
Study of test theory. Includes reliability, validity, scaling, norms, sampling, and factor analysis. Offered in alternate years. Instructor: Quiñones

PSYC 610  ADVANCED RESEARCH SEMINAR  (1-0-1)
Weekly lunchtime talk by department graduate students and faculty. May be repeated for credit.

PSYC 620  TOPICS IN COGNITIVE PSYCHOLOGY  (3-0-3)
Seminars on special topics in cognitive psychology. May be repeated for credit. Offered in alternate years.

PSYC 621  TOPICS IN MEMORY  (3-0-3)
Intensive study of selected topics and theories about memory. May be repeated for credit. Instructor: Watkins

PSYC 622(S)  PERCEPTUAL ORGANIZATION  (3-0-3)
Study of issues concerning how sensory information is shaped into perceptual units, how it is grouped, and how one unit (the figure) is segregated from other units (the ground) for purposes of attention. Offered every three years.

PSYC 623(S)  RETRIEVAL PROCESSES IN HUMAN MEMORY  (3-0-3)
Study of how information is retrieved from memory. Includes reminiscence and hyperamnesia, the effectiveness of retrieval cues, encoding/retrieval interactions, and implicit retention. Offered every three years.

PSYC 628  MEMORY RESEARCH SEMINAR  (1-0-1)
Weekly seminar to discuss recent research in human memory. Instructor: Watkins

PSYC 629  PSYCHOLINGUISTICS RESEARCH SEMINAR  (1-0-1)
Weekly seminar to discuss recent research in psycholinguistics. Instructor: Martin

PSYC 630  TOPICS IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY  (3-0-3)
Seminars on industrial/organizational psychology. Includes organizational development and change, training, test construction, the utility of personnel procedures, career development, and job analysis. May be repeated for credit. Offered in alternate years. Instructors: Dipboye, Hebl, Quiñones

PSYC 631(S)  SOCIAL COGNITION IN ORGANIZATIONS  (3-0-3)
Introduction to theory and research in social cognition as it relates to organizational behavior. Offered every three years.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
PSYC 632(F)  LEADERSHIP: THEORY AND RESEARCH (3-0-3)
Examination of the major psychological approaches to the study of leadership, with emphasis on theory and practice in formal organizations. Offered every three years. Instructors: Dipboye, Hebl

PSYC 633(S)  WORK ATTITUDES AND MOTIVATION (3-0-3)
Survey of theory and research regarding attitudes and motivation of individuals within work organizations. Offered every three years. Instructors: Dipboye, Quiñones

PSYC 634(S)  PERSONNEL SELECTION (3-0-3)
Review of research and theory associated with both objective and subjective methods of selecting personnel in organizations. Offered in alternate years. Instructors: Dipboye, Quiñones

PSYC 639  INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY INTERNSHIP (hours variable)
Supervised internship in organizational and/or personnel psychology. May be repeated for credit.

PSYC 640(F)  TOPICS IN ENGINEERING PSYCHOLOGY (3-0-3)
Seminars on special topics in engineering psychology. May be repeated for credit. Offered in alternate years. Instructors: Brelsford, Laughery

PSYC 649  ENGINEERING PSYCHOLOGY INTERNSHIP (hours variable)
Supervised internship in engineering psychology. May be repeated for credit. Instructors: Brelsford, Laughery

PSYC 651(F)  TOPICS IN SOCIAL PSYCHOLOGY (3-0-3)
Seminars in special topics in social psychology. May be repeated for credit. Offered in alternate years. Instructor: Schneider

PSYC 652(S)  SOCIAL COGNITION (3-0-3)
Discussion of recent research and theory in personal perception and the perception of, and memory for, social events, as well as social/cultural influences in cognitive processes. Offered every three years. Instructor: Schneider

PSYC 660(S)  PROFESSIONAL ISSUES (hours variable)
Discussion of selected topics on professional matters. Includes grant writing, licensing, and ethics in psychology. Offered every three years. Instructor: Dipboye

PSYC 700  THESIS RESEARCH (hours variable)
Research for master’s thesis. May be repeated for credit.

PSYC 800  DISSERTATION RESEARCH (hours variable)
Research for doctoral dissertation. May be repeated for credit.

Religious Studies (RELI)
The School of Humanities

RELI 101(S)  INTRODUCTION TO THE STUDY OF RELIGION (3-0-3)
Comparative and interdisciplinary analysis of key elements (including scripture, religious experience, ideas of the divine, religious art and practices) of two Western and two non-Western religions, of the scholarly study of religion, and of the role of religion in the contemporary world. Instructors: Carroll, Parsons

(F) = fall; (S) =
RELI 113(F)  INTRODUCTION TO CHRISTIANITY IN AFRICA (3-0-3)
Introductory examination of the dynamics of African Christianity from the early church to the present. Readings focus on the African church during the patristic era, the Middle Ages, the modern era, and the colonial period; prophetic movements; nationalism; racial tensions; the role of women; and the emergence of a distinct theological voice. Not offered 2001–2002. *Instructor: Bongmba*

RELI 122(S)  THE BIBLE AND ITS INTERPRETERS (3-0-3)
Acquaint students with the principal parts of the Hebrew Bible/Old Testament and provide some exposure to the different ways in which the Bible has been interpreted, from late Antiquity to modern times. Compares a modern-critical reading with early Jewish and Christian, often fanciful, elaborations of the same biblical tales and figures. Not offered 2001–2002. *Instructor: Henze*

RELI 123(F)  GOD, TIME, AND HISTORY (3-0-3)
How is the passage of time given meaning, and what role—if any—is assigned to divinity in shaping the direction of events? Course explores various forms of recording and interpreting events, drawing from ancient Mesopotamia, Israel, and the Greco-Roman world—the cultures in which modern ideas of history began. Enrollment is limited. Also offered as HIST 113 and HUMA 113. *Instructors: Henze, Maas*

RELI 125(F)  INTRODUCTION TO BIBLICAL HEBREW I (3-0-3)
An introduction to Biblical Hebrew (two semesters) with emphasis on grammar and vocabulary. Upon completion of this course, students will be able to read comfortably through biblical narratives and some poetic texts. Also offered as HEBR 125 and RELI 551. *Instructor: Henze*

RELI 126(S)  INTRODUCTION TO BIBLICAL HEBREW II (3-0-3)
Continuation of RELI 411. We will finish the grammar in the second half of this semester and then read selections from the Hebrew Bible, including the entire book of Ruth as well as short Rabbinic and Qumranic texts. Also offered as HEBR 126 and RELI 552. *Instructor: Henze*

RELI 127(F)  INTERMEDIATE BIBLICAL HEBREW (3-0-3)
Readings in the Hebrew Bible, as well as in some unvocalized texts from the Dead Sea Scrolls. Review of grammar and vocabulary. For students who have completed RELI 125 and 126 or have some knowledge of Hebrew but lack a thorough philological training. Also offered as HEBR 127. Not offered 2001–2002. *Instructor: Henze*

RELI 132(S)  CLASSICAL AND COLLOQUIAL TIBETAN (3-0-3)
Readings in Tibetan Bön and Buddhist religious texts. Also offered as TIBT 132. Not offered 2001–2002. *Instructor: Klein*

RELI 139(F)  INTRODUCTION TO INDIAN RELIGIONS (3-0-3)
This course will survey the four major religions which originated in India, namely Hinduism, Buddhism, Jainism and Sikhism. Emphasis will be placed on the study of the scriptures of these traditions. Also offered as ASIA 139. *Instructor: Gray*

RELI 140(S)  INTRODUCTION TO CHINESE RELIGIONS (3-0-3)
This course will survey the major Chinese religious traditions of Confucianism, Daoism and Buddhism. Readings will include philosophical texts, historical and anthropological studies, as well as popular literature. Also offered as ASIA 140. *Instructor: Gray*

RELI 141(F)  INTRODUCTION TO ISLAM (3-0-3)
A historical survey of the Muslim religious tradition, from the time of the Prophet Muhammad until the present day. Focus on development of Sunni and Shi'i Islam, Sufism, and modern Islam. *Instructor: Cook*

RELI 200(S)  THE BIBLE IN WESTERN TRADITION (3-0-3)
Explores multiple roles the Bible has played in Western culture. Emphasis will be on the Bible as catalyst in media history, as generator of the artistic imagination, and as author of ideas that shaped social history. Enrollment limited to 30. Also offered as HUMA 107. *Instructor: Kelber*
RELI 202(S)  ANCIENT RELIGIONS FROM BABYLON TO ROME (3-0-3)

RELI 209(F)  INTRODUCTION TO JUDAISM (3-0-3)
Postbiblical Judaism reflected in ancient rabbinic (legal and nonlegal) literature, feminism, medieval Jewish philosophy with special emphasis on Maimonides, and modern developments such as Hasidism, Musar, liberal Judaism, and Zionism. Instructor: Kaplan

RELI 210(S)  ETHICS IN JUDAISM (3-0-3)
What—if anything—is right, good, and just about our intentions and actions? Survey urgent questions raised in Jewish philosophy concerning law, morality, and politics. Topics include freedom and frailty, gender and government, emotions and reasons, suffering and hope. Read in translation ancient, medieval, modern, and contemporary writings. Instructor: Kaplan

RELI 223(F)  QUR’AN AND COMMENTARY (3-0-3)
Survey of the major themes of the Qur’an and selected types of commentary on it from the early Islamic period until the present day. Instructor: Cook

RELI 236(S)  CHRISTIAN ETHICS (3-0-3)

RELI 241(S)  THE BOOK OF PSALMS: EXPLORING THE PRAYERS OF CHURCH AND ISRAEL (3-0-3)

RELI 250(F)  MEDITATION, MYSTICISM, AND MAGIC (3-0-3)
The course moves between Buddhist religious and Western psychological literature, analyzing these as models of human development, as guides to a meditative life or critiques of it, and above all as expressions of deeply rooted cultural proclivities. Readings in Freud, Khakar, Milarepa, Norbu, Obeyesekere, Sutric and Tantric literature, Taylor and Wangyal. Instructors: Klein, Parsons

RELI 260(F)  RELIGION AND THE SOCIAL SCIENCES (3-0-3)
Designed to introduce the student to classic and contemporary texts in the social scientific study of religion. Topics include: mysticism, the social construction of gender, the guru-disciple relationship, secularization, healing traditions East and West, cross-cultural debates. Not offered 2001–2002. Instructor: Parsons

RELI 262(S)  MYSTICISM: TEXTS AND METHODS (3-0-3)
Familiarize the student with diverse texts (secular and religious, East and West) found in mystical literature. Emphasis will be placed on psychological, philosophical, and comparative methods. Instructor: Parsons

RELI 264(S)  SAINTS, SAGES, AND EXEMPLARS (3-0-3)
Examination of saints, sages, and exemplars in various religions from scholarly perspectives. Includes imitation and intercession, tensions between ordinary and extraordinary morality, and the psychological and cultural dynamics of sainthood. See also RELI 432. Not offered 2001–2002. Instructors: Staff, Parsons

RELI 266(S)  PSYCHOANALYSIS AND RELIGION (3-0-3)
In-depth analysis of pivotal writings on religion in the psychoanalytic tradition (e.g., classical, ego-psychology, and object-relations theory). Includes Freud, Erikson, Winnicott, Kohut, Rizzuto, Meissner, and Kakar. Not offered 2001–2002. Instructor: Parsons

(F) = fall; (S) = spring
RELI 280(F) SEARCH FOR GOD IN THE POSTMODERN WORLD (3-0-3)
Explores forms of the theistic religious experience, concentrating on the Western Christian tradition, past and present cultural and philosophical challenges to traditional religious belief, the possibility of Christian faith, and the struggle for justice and meaning in the postmodern world. Instructor: Stroup

RELI 282(F) INTRODUCTION TO CHRISTIANITY (3-0-3)
Multidisciplinary exploration of Christian religious experience, belief, and social reality with examples from Africa, the Americas, Asia, and Europe during the last two thousand years. Themes include search for lasting marks of identity amid change and diversity as well as the issue of Christianity’s relation to processes of modernization and secularization. No prior background in religious studies required. Instructors: Bongmba, Stroup

RELI 286(S) THE REFORMATION AND ITS RESULTS (3-0-3)
Theology and church-state issues from the 16th-century Reformation to the 17th century; medieval background; Luther and Calvin, the Catholic Reformation; religious wars, Protestant orthodoxy; Pietist spirituality; Puritanism; and calls for toleration. Also offered as HIST 286. Instructor: Stroup

RELI 291(S) RELIGION AND CULTURE (3-0-3)

RELI 293(S) PHILOSOPHERS LOOK AT RELIGION (3-0-3)
Inquiry into the ways in which selected Western and Asian philosophers have interpreted God, reality, the moral life, and religious experience. Plato, Augustine, Hume, and Kant will be compared with thinkers of the Vedic, Jain, Śamkhya and Buddhist traditions. Also offered as HUMA 115. Instructor: Wyschogrod

RELI 294(S) RELIGION IN FICTION AND FILM (3-0-3)

RELI 302(S) JEWISH–CHRISTIAN DIALOGUE (3-0-3)
Introduction to Judaism and Christianity with emphasis on the conflictual, but also mutually supportive, relations between the two faiths. The course proceeds both historically and thematically, tracing Jewish–Christian relations from the split in the first century CE through the Middle Ages into modernity and the postholocaust era. Enrollment is limited to 40. Not offered 2001–2002. Instructor: Staff

RELI 307(S) HISTORY OF CHRISTIANITY: THE FIRST FOUR CENTURIES (3-0-3)

RELI 308(S) CANONICAL GOSPELS: NARRATIVE AND SOCIAL SETTING (3-0-3)
Exploration of the four separate story worlds of Mark, Matthew, Luke, and John. The primary objective is to read each gospel as an integral narrative in its own right. A secondary objective is to reflect on the historical circumstances that gave rise to each gospel composition. Not offered 2001–2002. Instructor: Kelber

RELI 322(S) INTRODUCTION TO BUDDHISM (3-0-3)
Exploration of the Buddhist traditions of India, Tibet, China, and Japan, emphasizing the relationship between styles of meditation, their philosophical perspectives, cultural context, and classic Buddhist texts. Offered with additional work as RELI 572. Instructor: Klein

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
REL 325(F)  BUDDHISM AND THE FEMALE  (3-0-3)
Exploration of questions of identity, relationship, and personal change through an examination of Buddhist thought and female symbolism in light of current work on or by women. Offered with additional work as RELI 532. Not offered 2001–2002. Instructor: Klein

REL 334(S)  PSYCHOLOGY OF RELIGION  (3-0-3)
Significant contemporary problems examined from a phenomenological and personal identity, clinical standpoint (e.g., ideas of God, evil, anxiety, guilt, and the therapeutic process). Instructor: Sanborn

REL 335(S)  AFRO-CARIBBEAN RELIGIOUS THOUGHT  (3-0-3)
Explores the religions and philosophical concepts embedded in African and Afro-Diaspora thought as they were brought from West Africa and were developed in the Caribbean and in the Americas. Focuses on the thought of the Yoruba and Fon people and the religions they developed, including Santeria, Vodou, Candomble, and others. Not offered 2001–2002. Instructor: Bongmba

REL 336(S)  AFRICAN RELIGIONS IN THE AMERICAS  (3-0-3)
Reading and discussion of the variety of religions and spiritual movements transplanted from Africa to the Americas. We will study Santeria, Vodun, Candomble, and Rastafarians, among others. Course work includes field trips. Not offered 2001–2002. Instructor: Bongmba

REL 340(S)  THEOLOGY IN AFRICA  (3-0-3)
Introduction to readings in theological thinking in Africa from the Patristic period to the present. Course will address methodological issues as well as constructive theological work on inculturation and liberation. Instructor: Bongmba

REL 342(S)  NEW RELIGIOUS MOVEMENTS IN AFRICA  (3-0-3)
Discuss 20th-century religious movements and the religious, sociological, and political factors leading to their rise, as well as missionary and colonial reactions to them. Examines their relationship to indigenous religions, political praxis, and their focus on this-worldly salvation in the wake of political and economic marginality. Prerequisite: permission of instructor. Also offered as ANTH 343. Not offered 2001–2002. Instructor: Bongmba

REL 352(S)  JIHAD AND THE END OF THE WORLD  (3-0-3)
The course will explore the connections between Jihad (both aggressive and non-aggressive) and apocalyptic beliefs in the Muslim tradition from the time of the Prophet Muhammad until the present day. Readings from the Qur’an, Bukhari, Ayatullah al-Khumayni, and Sayyid Qutb. Instructor: Cook

REL 361(F)  LOVE, JUSTICE, AND FRIENDSHIP  (3-0-3)
Exploration of the relation of self and other as an ethical issue. Includes friendship, self-sacrifice, tensions between love and justice, altruism and egoism, and mutuality and radical alterity. Prerequisite: previous course work in ethics. Not offered 2001–2002. Instructor: Staff

REL 362(S)  RELIGION, ETHICS, AND THE ENVIRONMENT  (3-0-3)
Explores the moral status of animals, other organisms, and ecosystems from religious, philosophical, feminist, and scientific perspectives. Examines issues such as biodiversity, wilderness preservation, population, and biotechnology. Not offered 2001–2002. Instructor: Staff

REL 364(S)  RELIGION, ETHICS, AND VIOLENCE  (3-0-3)
Examination of religious and secular efforts to understand, control, and justify violence. Attention to nonviolence and “just war” theories in Christianity, Judaism, and Islam and to realism, international law, moral philosophy, and feminist and critical theories. Focus on war, terrorism, genocide, and capital punishment. Not offered 2001–2002. Instructor: Staff

REL 370(S)  DYNAMICS OF CLASSICAL JUDAISM  (3-0-3)
Introduction to classical Judaism exploring key concepts, themes, and experiences in Jewish thought and life, including covenant, Exodus and Passover, revelation, commandment, the sanctification of life, and learning as a sacred endeavor. Readings from Bible, midrash, biblical commentary, Mishnah and Talmud, prayerbook, Passover Haggadah, philosophy, and mysticism. Enrollment limited to 25. Not offered 2001–2002. Instructor: Staff

(F) = fall; (S) = spring
RELI 371(F)  MODERN JEWISH THOUGHT (3-0-3)
What is the role of God and spirituality in the modern world? How do modern Jewish thinkers reinterpret traditional religious concepts? Explore debates on textual criticism, historical representation, existentialism, and political theology in writings by Spinoza, Buber, Rosenzweig, Kook, Levinas, and Adler. Instructor: Kaplan

RELI 372(S)  VARIETIES OF JEWISH MYSTICISM (3-0-3)
What is mysticism, and what characterizes mystical experience? What is the relation between mysticism and language, culture and everyday religious practice? The approach to Jewish mysticism will be both historical and hermeneutical. Prior knowledge of Judaism not necessary. Not offered 2001–2002. Instructor: Staff

RELI 373(F)  DUTIES OF THE HEART: THEMES IN MEDIEVAL JEWISH THOUGHT (3-0-3)
Introduction to medieval Jewish thought, reflecting varied perspectives on Jewish life (rabbinic, philosophical, Sufi-influenced, Hasidic). Topics may include knowledge of God, the purpose of the commandments, the cultivation of inner spirituality, religious experience. Course may also address the nature of esoteric writing, the problem of evil, prophecy and revelation, ethical transformation. Not offered 2001–2002. Instructor: Staff

RELI 383(F)  THE DEAD SEA SCROLLS (3-0-3)
Introduction to the Dead Sea Scrolls as a window into the Second Temple Period. A close reading of several scrolls (e.g., Community Rule, Damascus Document, Halakhic Letter, Pesharim) will lead to a discussion of the theological and historical issues of the time (e.g., organization of the sect, Jewish law, liturgy, Biblical exegesis, Messianism, the scrolls, and early Christianity). Not offered 2001–2002. Instructor: Henze

RELI 391(S)  DEATH AND DYING IN RELIGION AND LITERATURE (3-0-3)
Death, immortality, resurrection, grief, and mourning in selected texts of Western and Asian religious traditions, and modern and postmodern literature. Readings from the Bible, Plato, Augustine, Pascal, St. Theresa of Avila, the Upanishads, selected Buddhist texts, and the works of Tolstoy, Rilke, Kafka, Celan, and selected science fiction. Not offered 2001–2002. Instructor: Wyschogrod

RELI 393(S)  RELIGION, MYTH, AND LANGUAGE (3-0-3)

RELI 395(S)  RELIGION, ASCETICISM, AND THE BODY (3-0-3)
Exploration of interpretations of the body in selected religious traditions in the context of contemporary analyses of corporeality. Includes the theological meanings of pain, suffering, self-denial, and renunciation of the world. Offered with additional work as RELI 596. Instructor: Wyschogrod

RELI 397(S)  EGOISM, ALTRUISM, AND THE POSTMODERN SELF (3-0-3)

RELI 401(F)  INDEPENDENT STUDY (hours variable)
RELI 402(S)  Prerequisite: permission of instructor.

RELI 423(S)  AFRICAN MYTHS AND RITUAL (3-0-3)
Explore and analyze specific myths and rituals that provide legitimation for community ceremonies and serve as basis for the negotiation of power and ideology for members within that community. Readings from classic theorists Gennap and Turner and contemporary theorists Webner, Heuschen, Comaroff, and Ray. Also offered as ANTH 423. Offered with additional work as RELI 537. Not offered 2001–2002. Instructor: Bongmba

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
RELI 425(F)  AFRICANA THOUGHT AND PHILOSOPHY (3-0-3)
Reading and discussion of important issues in 20th-century African, African American, Caribbean, and African diaspora existential thought. Instructor: Bongmba

RELI 426(S)  RELIGION AND LITERATURE IN AFRICA (3-0-3)
Analysis of the religious imagination in selected African literary works that address Islam, Christianity, and indigenous religions. Issues to be addressed include identity crisis, religious themes (such as cosmology), community, power, body, and gender in a postcolonial/postmodern world. Not offered 2001–2002. Instructor: Bongmba

RELI 429(F)  DEPARTMENT SEMINAR
The seminar critically examines methodological questions and interpretive paradigms central to the academic study of religion. This year’s field is Biblical Studies. Topics include historical criticism, the poetics of narrative, the reception history of texts, rhetoric or the art of persuasion, history of religion versus theology, Jewish and Christian readings. Mandatory for graduate students, majors by invitation. Offered with additional work as RELI 529. Instructors: Henze, Kelber

RELI 430(S)  RELIGION AND MODERN THERAPIES (3-0-3)
Survey of the historical development of the psychology of religion and its conversation with theology, comparative studies, gender studies, sociology, and anthropology. Topics include: mysticism, eroticism, conversion, feminism, psychobiography. Examples will be drawn from a variety of religious traditions. Readings include: Freud, Jung, Tillich, Erikson, Kristeva, Kakar. Offered with additional work as RELI 589. Not offered 2001–2002. Instructor: Parsons

RELI 432(S)  SAINTS, SAGES, AND EXEMPLARS (3-0-3)

RELI 440(S)  ISLAM’S MYSTICAL AND ESOTERIC TRADITION (3-0-3)
This course will be a seminar exploring the ascetic and Sufi aspects of Islam from the middle Islamic period until the present day. Readings from al-Ghazali, Ibn al-Arabi, Sa di, Hafiz and Rumi. Offered with additional work as RELI 522. Instructor: Cook

RELI 451(S)  PHILOSOPHIES AND THEOLOGIES OF HISTORY (3-0-3)
Modern thought on meaning, direction of history; roots in eschatology, Augustine; flowering in progress, historicism: Hegel, Ranka, Burckhardt, Nietzsche, Troeltsch, Spengler, Heidegger, Toynbee; cultural echo (de Chirico, Proust, Mann, Robbe-Grillet, Buñuel, Bergman, Fellini). Also offered as HIST 451. Offered with additional work as RELI 517. Instructor: Stroup

RELI 456(S)  HISTORY OF WESTERN CHRISTIANITY: REFORMATION TO THE PRESENT (3-0-3)
Spirituality, sociopolitical movements, and intellectual life in the West. Includes Luther, Calvin, Kierkegaard, Bonhoeffer, Barth, C.S. Lewis, Tillich, Marx, Nietzsche, and Jung. Offered with additional work as RELI 520. Not offered 2001–2002. Instructor: Stroup

RELI 457(F)  MODERNITY, ANTIMODERNITY, AND POSTMODERNITY AS STYLES OF RELIGIOSITY (3-0-3)
Exploration of the problem of defining “modernity” and concepts. Includes contemporary sociological, political, and cultural theory (e.g., Baudrillard) in connection with typologies of religious experience and grouping from mainline through New Age. Offered with additional work as RELI 519. Not offered 2001–2002. Instructor: Stroup

RELI 462(F)  MEDICAL ETHICS AND AMERICAN VALUES I (3-0-3)
Readings and discussion of the principles and priorities of medical ethics, with attention to historical development. Taught in conjunction with University of Texas–Houston Health Science Center. Classes meet at UT School of Public Health. Intended only for highly qualified undergraduates. Prerequisite: permission of instructor. Enrollment limited to 15. Offered with additional work as RELI 543. Instructor: Reiser

(F) = fall; (S) = spring
RELI 463(S)  MEDICAL ETHICS AND AMERICAN VALUES II (3-0-3)
Continuation of RELI 462 (prerequisite), with attention to clinical experience. Taught in conjunction with University of Texas–Houston Health Science Center. Classes meet at UT School of Public Health. Intended only for highly qualified undergraduates. Offered with additional work as RELI 544. Prerequisite: permission of instructor. Instructor: Staff

RELI 468(S)  GERMAN–JEWISH IDEALISM AND ITS CRITICS (3-0-3)
From the 18th century until 1933, writers imagined a symbiosis of Judaic and German philosophical and cultural ideas. In hindsight, were they tragically deluded or guardedly optimistic? Discuss skepticism, romanticism, historicism, ethical monotheism, critical theory, and neo-conservatism. Readings selected from Mendelssohn, ‘Science of Judaism,’ Cohen, Buber, Rosenzweig, Scholem, Benjamin, Arendt, and Strauss. Offered with additional work as RELI 568. Instructor: Kaplan

RELI 470(S)  BUDDHIST WISDOM TEXTS (3-0-3)
Indo-Tibetan analyses of the mind and its functions, especially differing views on the role of reasoning and the nature of the “ultimate” in major philosophical schools of Tibet and India. Instructor: Klein

RELI 471(F)  BUDDHIST MEDITATION THEORY: WOMEN AND MEN (3-0-3)

RELI 492(S)  MODERNITY AND RELIGION
The role of religion and faith in the modern world has often been problematic. In this seminar, we will analyze the role of religion in the 20th century through case studies from around the world. Topics vary. Also offered as HIST 492. Instructor: Sarah Thal

RELI 505(F)  HISTORY OF CHRISTIANITY: THE FIRST FOUR CENTURIES (3-0-3)

RELI 506(F)  GOSPEL AND TRADITION (3-0-3)

RELI 508(S)  JOHN AND LOGOCENTRISM (3-0-3)

RELI 509(S)  NEW TESTAMENT AND HERMENEUTICS (3-0-3)

RELI 517(S)  PHILOSOPHIES AND THEOLOGIES OF HISTORY (3-0-3)
Graduate version of RELI 451 and HIST 451. Instructor: Stroup

RELI 518(F)  HISTORY OF CHRISTIANITY (3-0-3)

RELI 519(F)  MODERNITY, ANTIMODERNITY, AND POSTMODERNITY AS STYLES OF RELIGIOSITY (3-0-3)

RELI 520(S)  HISTORY OF WESTERN CHRISTIANITY: REFORMATION TO THE PRESENT (3-0-3)

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
RELI 522(S)  ISLAM’S MYSTICAL AND ESOTERIC TRADITION (3-0-3)
This course will be a seminar exploring the ascetic and Sufi aspects of Islam from the middle Islamic period until the present day. Readings from al-Ghazali, Ibn al-Arabi, Sa di, Hafiz and Rumi. Also offered as RELI 440. Instructor: Cook

RELI 523(F)  INDEPENDENT STUDY (hours variable)
RELI 524(S)  INDEPENDENT STUDY (hours variable)
Prerequisite: Permission of instructor.

RELI 529(F)  DEPARTMENT SEMINAR
The seminar critically examines methodological questions and interpretive paradigms central to the academic study of religion. This year’s field is Biblical Studies. Topics include historical criticism, the poetics of narrative, the reception history of texts, rhetoric or the art of persuasion, history of religion versus theology, Jewish and Christian readings. Mandatory for graduate students, majors by invitation. Also offered as RELI 429. Instructors: Henze, Kelber

RELI 532(S)  CLASSICAL AND COLLOQUIAL TIBETAN (4-0-4)

RELI 535(F)  AFRO-CARIBBEAN RELIGIOUS THOUGHT (3-0-3)

RELI 536(S)  AFRICAN RELIGIONS IN THE AMERICAS (3-0-3)

RELI 537(S)  AFRICAN MYTHS AND RITUALS (4-0-4)

RELI 538(S)  RELIGION AND LITERATURE IN AFRICA (3-0-3)

RELI 541(F)  HISTORY AND METHODS OF ETHICS (3-0-3)
Not offered 2001–2002. Instructor: Staff

RELI 542(F)  LOVE, JUSTICE, AND FRIENDSHIP (3-0-3)

RELI 543(F)  MEDICAL ETHICS AND AMERICAN VALUES I (3-0-3)
Graduate version of RELI 462. Instructor: Reiser

RELI 544(S)  MEDICAL ETHICS AND AMERICAN VALUES II (3-0-3)
Graduate version of RELI 463. Prerequisite: RELI 543. Instructor: Staff

RELI 545(F)  ADVANCED SEMINAR IN BIOMEDICAL ETHICS (3-0-3)
Prerequisites: graduate standing and two semesters of ethics. Not offered 2001–2002. Instructor: Staff

RELI 546(S)  RELIGION, ETHICS, AND VIOLENCE (3-0-3)

RELI 547(F)  RELIGIOUS ETHICS AND MODERNITY/POSTMODERNITY (3-0-3)
Examines efforts to rethink the nature and grounds of a religious ethic in the wake of Kant’s Religion within the Bounds of Reason Alone. Will also cover some or all of the following: Hegel, Schleiermacher, Kierkegaard, Cohen, Barth, Derrida. Not offered 2001–2002. Instructor: Staff

RELI 548(S)  COMPARATIVE RELIGIOUS ETHICS (3-0-3)
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<td>INTRODUCTION TO BIBLICAL HEBREW I (3-0-3)</td>
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(0-0-0) = class hours/week - lab hours/week - credit hours/semester
RELI 580(S)  PSYCHOANALYSIS AND RELIGION (3-0-3)
Graduate version of RELI 266. Not offered 2001–2002. Instructor: Parsons

RELI 582(S)  MYSTICISM: TEXTS AND METHODS (3-0-3)

RELI 584(S)  RELIGION AND MODERN THERAPIES (3-0-3)

RELI 585(S)  GOD, TIME, AND HISTORY (3-0-3)
Graduate version of RELI 123. Enrollment is limited. Instructors: Henze, Maas

RELI 587(S)  THE BOOK OF PSALMS: EXPLORING THE PRAYERS OF CHURCH AND ISRAEL (3-0-3)

RELI 591(S)  DEATH AND DYING IN RELIGION AND LITERATURE (3-0-3)

RELI 592(F)  ISSUES IN RELIGION AND POSTMODERNISM (3-0-3)
Introduction to postmodern analyses of temporality, representation, otherness, difference, desire, errancy, and writing in relation to problems in the philosophy of religion. Includes Hegel, Kierkegaard, Nietzsche, Heidegger, Levinas, Blanchot, Lyotard, Derrida, Kristeva, and select radical orthodox thinkers. Instructor: Wyschogrod

RELI 593(F)  RELIGION, MYTH, AND LANGUAGE (3-0-3)

RELI 594(S)  TIME AND ETERNITY: FROM AUGUSTINE TO POSTMODERNISM (3-0-3)
Seminar exploring the relation of religion to questions of temporality and eternity, being and becoming, historicity, and presence and absence in the thought of Bergson, Husserl, Heidegger, Derrida, and Lyotard. Includes the historical understanding of time in the philosophies of Plato, Aristotle, Plotinus, Augustine, and Kant as they bear upon these recent philosophies. Not offered 2001–2002. Instructor: Wyschogrod

RELI 595(F)  GOD AND POSTMODERNISM (3-0-3)

RELI 596(F)  RELIGION, ASCETICISM AND THE BODY (3-0-3)
Exploration of interpretations of the body in selected religious traditions in the context of contemporary analyses of corporeality. Includes the theological meanings of pain, suffering, self-denial, and renunciation of the world. Also offered as RELI 395. Instructor: Wyschogrod

RELI 597(F)  NIETZSCHE AND RELIGION IN THE 21ST CENTURY (3-0-3)
Exploration of the thought of Nietzsche in the light of its impact on recent Christian and Jewish thinkers and their critics. Analysis of Nietzsche’s works and their influence on the understanding of God, faith, law, and the moral life in such figures as Barth, Tillich, Marcel Buber, Levinas, and Derrida. Instructor: Wyschogrod

RELI 598(S)  KIERKEGAARD AND 21ST-CENTURY RELIGION (3-0-3)
Inquire into Kierkegaard’s interpretation of God; the religious, ethical, and aesthetic stages of existence; and the figures of Socrates and Jesus. Impact of Kierkegaard on 20th-century philosophers of religion from Barth to Levinas. Not offered 2001–2002. Instructor: Wyschogrod

(F) = fall; (S) = spring
REL 599(S)  EGOISM, ALTRUISM, AND THE POSTMODERN SELF (3-0-3)

REL 700  GRADUATE RESEARCH (hours variable)
Conduct summer research.

REL 800  THESIS RESEARCH (hours variable)

Russian (RUSS)
The School of Humanities/Department of German and Slavic Studies

RUSS 101(F)  INTRODUCTION TO RUSSIAN LANGUAGE AND CULTURE I (3-2-4)
Overview of the fundamentals of Russian grammar. Includes pronunciation, reading, oral practice, and translation. Must complete RUSS 102 to receive credit for RUSS 101. Instructor: Staff

RUSS 102(S)  INTRODUCTION TO RUSSIAN LANGUAGE AND CULTURE II (3-2-4)
Continuation of RUSS 101. Prerequisite: RUSS 101. Instructor: Staff

RUSS 103  INTRODUCTION TO RUSSIAN LANGUAGE AND CULTURE (6-2-8)
Single summer course equivalent to combined RUSS 101 and RUSS 102. Instructor: Staff

RUSS 201(F)  INTERMEDIATE RUSSIAN LANGUAGE AND CULTURE I (3-0-3)
Study of the Russian language. Includes a grammar review, reading of selected texts, conversation, and composition. Instructor: Staff

RUSS 202(S)  INTERMEDIATE RUSSIAN LANGUAGE AND CULTURE II (3-0-3)
Continuation of RUSS 201. Instructor: Staff

RUSS 301(F)  CONVERSATION & COMPOSITION I (3-0-3)
Course provides an introduction to contemporary Russian culture and politics. Taught in Russian. Two kinds of texts are used. The first is the Web. Both courses rely on Gazeta (www.gazeta.ru), Ogonyok (www.ogonyok.ru) and Moskovskie Novosti (www.mn.ru). These periodicals are read once a week in class, directly from the Web, and the length of reading increases in the second semester. Conversations follow. The second group of texts consists of a textbook on contemporary Russian culture, Let's Talk about Life, by Emily Tall, and of a play by a Russian author. The textbook readings are used for discussion, and the play is read aloud or acted, if conditions permit. After two semesters of such training, students become conversant with contemporary Russian politics, social events, parties and economy, in addition to improving their Russian. Weekly papers are required. Instructor: Thompson
RUSS 302(S) CONVERSATION & COMPOSITION II (3-0-3)
Continuation of RUSS 301. Course provides an introduction to contemporary Russian culture and politics. Taught in Russian. Two kinds of texts are used. The first is the Web. Both courses rely on Gazeta (www.gazeta.ru), Ogonyok (www.ogonyok.ru) and Moskovskie Novosti (www.mn.ru). These periodicals are read once a week in class, directly from the Web, and the length of reading increases in the second semester. Conversations follow. The second group of texts consists of a textbook on contemporary Russian culture, Let's Talk about Life, by Emily Tall, and of a play by a Russian author. The textbook readings are used for discussion, and the play is read aloud or acted, if conditions permit. After two semesters of such training, students become conversant with contemporary Russian politics, social events, parties and economy, in addition to improving their Russian. Weekly papers are required. Instructor: Staff

RUSS 303 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit.

RUSS 305 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit.

RUSS 306 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit.

RUSS 309(F) SLAVIC CULTURES (3-0-3)
Interdisciplinary introduction to the main currents of Russian, Czech, and Polish cultures. Key moments in history, social trends, music and the arts, the construction of national mythologies through literature. Also offered as SLAV 309. Instructor: Staff

RUSS 311 INTRODUCTION TO RUSSIAN CULTURE (3-0-3)
Contents varies from year to year. May be repeated for credit. Not offered 2001–2002. Instructor: Thompson

RUSS 312 SURVEY OF RUSSIAN LITERATURE (3-0-3)
The course acquaints the student with writers who have been important to the development of Russian culture and to a variety of genres in prose, poetry and drama, from the 18th century onwards. The works are examined within their historical context and in the light of their influence and interaction with other types of artistic production, such as opera, pictorial arts, music, and film. No knowledge of Russian required. Not offered 2001–2002. Instructor: Staff

RUSS 320 CONTEMPORARY POLISH POLITICS AND CULTURE (3-0-3)
Highlights of Polish literature in the 20th century. Also offered as SLAV 320. Not offered 2001–2002. Instructor: Staff

RUSS 331(S) RUSSIAN LITERATURE AND COLONIALISM (3-0-3)
This course includes a broad survey of postcolonial theories starting with Edward Said and including Homi Bhabha, Leela Gandhi, Gayatri Spivak, Michael Hechter, Helen Tiffin and others. The course is based on Ewa M. Thompson Imperial Knowledge: Russian Literature and Colonialism published by Greenwood in 2000. Literary readings include Leo Tolstoy’s War and Peace; Alexander Pushkin’s “Bronze Horseman” and “Journey to Arzrum;” Valentine Raspoutine’s “Live and Remember” and other stories; Anatoly Rybakov’s Children of the Arbat; Alexander Solzhenitsyn’s Cancer Ward; Ludmila Petrushevskaya’s “Night;” Tatiana Tolstaia’s Sleepwalker in a Fog; and Valeriya Novodvorskaya’s essays. Also offered as SLAV 331. Instructor: Thompson

RUSS 332 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 341 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff
RUSS 342 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 351(F) TOLSTOY (3-0-3)
Study of the major works of Tolstoy. No knowledge of Russian required. Novels and stories discussed include War and Peace; Anna Karenina; The Kreutzer Sonata; Family Happiness; The Cossacks; “The Devil;” “The Death of Ivan Ilych;” “Father Sergius;” “The Confession” and “Hadji Murad.” Also offered as HUMA 382. Instructor: Thompson

RUSS 352(S) DOSTOEVSKY (3-0-3)
Study of the major works of Dostoevsky. No knowledge of Russian required. Novels discussed include The Brothers Karamazov; Crime and Punishment; The Idiot; The Possessed; Notes form the Dead House; Notes from the Underground. Also offered as HUMA 381. Instructor: Thompson

RUSS 401(F) RUSSIAN STYLISTICS I (3-0-3)
Designed to improve the spoken and written language with emphasis on syntactic and idiomatic structures. Weekly papers required. Not offered 2001–2002. Instructor: Thompson

RUSS 402(S) RUSSIAN STYLISTICS II (3-0-3)

RUSS 410 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 411(S) MODERN POLISH POETRY IN TRANSLATION (3-0-3)
This course presents the living poets of Poland, from Nobel Prize winners Czeslaw Milosz (1980) and Wislawa Szymborska (1996) to their youngest competitors, Krzysztof Koehler and Maciej Swietlicki. The course explores how resistance and collaboration, Catholicism and Communism, have shaped and continued a major literary tradition of Europe basing on a selection of poetry in English translations. Also offered as SLAV 411. Instructor: Staff

RUSS 412(F) CENTRAL AND EAST EUROPEAN FILM (3-0-3)
Based on a selection of some of the best films by some of the best directors of the region (Forman, Holland, Kieslowski, Polanski, Szabo, Wajda), this course presents a panorama of Central-Eastern European filmmaking against a background of a totalitarian political system. Also offered as SLAV 412 and HUMA 383. Instructor: Staff

RUSS 420 WOMEN IN RUSSIAN LITERATURE (3-0-3)
The portrayal of women in major works of Russian literature with particular attention paid to the women writers’ presentation of women. No knowledge of Russian required. Also offered as WGST 442. Not offered 2001–2002. Instructor: Thompson

RUSS 437 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 441 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 442 SPECIAL TOPICS (3-0-3)
Contents varies from year to year. May be repeated for credit. Instructor: Staff

RUSS 450 INDEPENDENT STUDY (3-0-3)
Content varies depending on student interests and the availability of instructors.

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
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<th>Sanskrit (SANS)</th>
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<td><strong>SANS 301(F)</strong></td>
<td><strong>INTRODUCTION TO SANSKRIT I</strong> (3-0-3)</td>
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<td><strong>SANS 302(S)</strong></td>
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<td><strong>INTRODUCTION TO SLAVIC LANGUAGE AND CULTURE I</strong> (3-1-4)</td>
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<td><strong>SLAV 102(S)</strong></td>
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<td><strong>SLAV 242(F)</strong></td>
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<td><strong>RUSSIAN LITERATURE AND COLONIALISM</strong> (3-0-3)</td>
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(F) = fall; (S) = spring
SLAV 411(S) MODERN POLISH POETRY IN TRANSLATION (3-0-3)
This course presents the living poets of Poland, from Nobel Prize winners Czeslaw Milosz (1980) and Wislawa Szymborska (1996) to their youngest competitors, Krzysztof Koehler and Maciej Swietlicki. The course explores how resistance and collaboration, Catholicism and Communism, have shaped and continued a major literary tradition of Europe basing on a selection of poetry in English translations. Also offered as RUSS 411. Instructor: Staff

SLAV 412(F) CENTRAL AND EAST EUROPEAN FILM (3-0-3)
Based on a selection of some of the best films by some of the best directors of the region (Forman, Holland, Kieslowski, Polanski, Szabo, Wajda), this course presents a panorama of Central-Eastern European filmmaking against a background of a totalitarian political system. Also offered as RUSS 412. Instructor: Staff

SLAV 422 CONSERVATIVE AUTHORS AND READINGS (3-0-3)
Examination of conservative responses to major modern and postmodern thinkers. Include Mortimer Adler, Hannah Arendt, Leszek Kolakowski, Czeslaw Milosz, Alexander Solzhenitsyn, Karl Popper, Thomas Molnar, Jacques Maritain, Fyodor Dostoevsky, and Zbigniew Brzezinski. Familiarity with or additional readings in Friedrich Nietzsche, Sigmund Freud, G.W.F. Hegel and Karl Marx will also be required. Not offered 2001–2002. Instructor: Thompson

SLAV 436 TOPICS IN SLAVIC LINGUISTICS (3-0-3)
Study of the Old Church Slavic language in its Indo-European, Balto-Slavic and Slavic contexts with emphasis on translation and analysis of representative Glagolitic and Cyrillic texts. Also offered as LING 436. Not offered 2001–2002. Instructor: Staff

SLAV 437 THE INTERACTION OF GERMAN AND WENDISH (SORBIAN) IN TEXAS (3-0-3)

SLAV 450 INDEPENDENT STUDY (3-0-3)
Content varies depending on student interests and availability of instructors.

Sociology (SOCI)
The School of Social Sciences

SOCI 203 INTRODUCTION TO SOCIOLOGY (3-0-3)
Introduction to the principal concepts, theories, and methods of sociology. Required (normally) for sociology majors. Limited to freshmen and sophomores. Enrollment limited to 60. Instructor: Martin

SOCI 301(F) SOCIAL INEQUALITY (3-0-3)
Survey of U.S. inequalities of wealth, status, and power. The situation of various minority groups, women, the poor. What kinds of inequality are unjustifiable? Can they be abolished? If so, how? The trade-off between equality and such valued goods as freedom and efficiency. Enrollment limited to 30. Instructor: Davidson

SOCI 306(F) SOCIOLOGY OF GENDER (3-0-3)
Exploration of the relationship between gender and social role. Includes development of the contemporary sexual division of labor and the process of socialization with reference to family, education, media, and occupations. Limited enrollment. Also offered as WGST 324. Instructor: Long

SOCI 308(S) HOUSTON: THE SOCIOLOGY OF A CITY (3-0-3)
An approach to urban sociology and an exploration of contemporary social change, using the Houston metropolitan area as a case study. The rise of the “golden buckle on the sunbelt”; economic and demographic transformations since the end of the oil boom; the new immigration and its impact on interethnic relations; the changing politics of education, inequality, inner-city development and regional issues; perspectives on the urban future in a global economy. Guest lectures, field trips. Instructor: Klineberg

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
COURSES / Sociology–SO CI

SO CI 309(F)    RACE AND ETHNIC RELATIONS (3-0-3)
Historical and contemporary issues and theories of race and ethnic relations in the United States. The key groups covered will be European Americans, African Americans, Native Americans, Asian Americans, and Mexican Americans. Group patterns of assimilation and conflict inform a basic tenet that race and ethnicity are organizing features of society. Enrollment limited to 50. Instructor: Emerson

SO CI 310(S)    URBAN SOCIOLOGY (3-0-3)

SO CI 313(F)    DEMOGRAPHY (3-0-3)
Introduction to the study of the dynamics of population change. Includes demographic data sources, components of population change, mortality patterns, family planning, the measurement of migrations, and population-economic models. Instructor: Donato

SO CI 317(S)    CONTEMPORARY SOCIOLOGICAL THEORY (3-0-3)

SO CI 319(S)    THE SOCIOLOGY OF WORK AND OCCUPATIONS (3-0-3)
The influence that occupation has on lifestyle, values, social and economic status, and views of the world. Field work by the student will be encouraged. Not offered 2001–2002. Instructor: Staff

SO CI 321(F)    CRIMINOLOGY (3-0-3)
Study of types of criminal behavior. Includes theories of crime and juvenile delinquency, with emphasis on the role of police, courts, correction agencies, and other social structures. Fieldwork required. Enrollment limited to 40. Prerequisite: SO CI 203 or departmental exam. Instructor: Martin

SO CI 324(S)    THE GOOD SOCIETY (3-0-3)
Examination of the linked projects of analyzing social problems, generating critical appraisals of the existing social order, and envisioning a movement toward “the good society.” Includes concrete social issues (the family, inequality, and the environment) and more general topics. Prerequisite: SO CI 203 or permission of instructor. Limited enrollment. Not offered 2001–2002. Instructor: Long

SO CI 330(S)    SOCIAL MOVEMENTS: THE POLITICS OF PROTEST (3-0-3)
Strategies by which citizens effect social change through noninstitutionalized political activity. The emergence, maturation, and decay of protest movements. Political impact of social movements on both institutions and individuals. Primary focus is on 20th-century United States. Not offered 2001–2002. Instructor: TBA

SO CI 340(F)    CONTEMPORARY MEXICAN SO CIETY (3-0-3)
In this course, we seek a sociological understanding of contemporary Mexican society. After reviewing the historical roots of the modern Mexican state, we will examine how economic, political, and social institutions operate in Mexico; their formal and informal structures; and their consequences. Instructor: Donato

SO CI 345(F)    SOCIOLOGY OF MEDICINE (3-0-3)
Overview of the relationships between social factors and health. Includes medicine as a solution and cause of social and individual problems, stress and health, and medicine and health care systems, as well as cross-cultural differences in health, patterns of diseases, and conventional and alternative health policies in other countries. Not offered 2001–2002. Instructor: TBA
SOCI 350(F)  SOCIOLOGICAL APPROACHES TO POVERTY (3-0-3)
Exploration of the dimensions and causes of poverty in America. Includes comparisons with other Western democracies, individual shortcomings vs. structural barriers to opportunity, the “culture of poverty,” the welfare system, racial and ethnic discrimination today vs. 30 years ago, and possible solutions. *Instructor: Davidson*

SOCI 367(S)  ENVIRONMENTAL SOCIOLOGY (3-0-3)
Applications of research and theory in the social sciences to an understanding of the attitudes and behaviors that contribute both to environmental problems and to their remediation; examination of public attitudes toward environmental issues and the interactions between technological developments and ecological constraints as they combine to shape the human prospect. *Instructor: Klineberg*

SOCI 390(F)  RESEARCH METHODS (3-0-3)
An introduction to the methods sociologists use to study human societies and their members, taught collectively by the sociology faculty. Hypothesis formulation and research design, qualitative studies through observation and interviews, historical and comparative approaches, sample surveys and the statistical analysis of quantitative data, political and ethical issues in social research. *Instructors: Klineberg, Staff*

SOCI 395(S)  FEMINIST SOCIAL THOUGHT (3-0-3)
Study of feminist theory as critique and reconstruction. Includes Wollstonecraft and de Beauvoir, as well as contemporary debates about equity, difference, knowledge, sexuality, and power. Limited enrollment. Also offered as WGST 460. *Instructor: Long*

SOCI 398(S)  SOCIAL STATISTICS (3-0-3)
Emphasizes the practical uses of statistics to answer the types of questions sociologists ask. We learn sample description, sampling and probability, sampling theory, and how to make inferences from samples to populations. We study and apply common univariate, bivariate, and multivariate statistics. Because most statistical analysis is done with the aid of computers, we also learn how to use a common statistical package. Enrollment limited to 15. *Instructor: Emerson*

SOCI 399  IMMIGRATION AND PUBLIC HEALTH (3-0-3)
The purpose of this course is to understand the relationship between international migration and public health. We will examine how immigration has been linked to disease in the past, and how it affects the public health of current populations. Throughout the course, we will identify the substantive and methodological complexities embedded in the health-migration relationship and discuss their role in shaping public policy debates worldwide. Enrollment limited to 30. This course is taught at the UT School of Public Health and offered as PH3992. *Instructor: Donato*

SOCI 403(F)  INDEPENDENT STUDY (hours variable)
SOCI 404(S)  Directed reading and essay writing on special subjects. Includes advanced study in subjects from other courses, if desired. May be repeated for credit. Prerequisite: permission of the department.

SOCI 408  SOCIOLOGY OF THE INTERNET (3-0-3)
A seminar devoted to considering the history and sociology of the Internet. We will discuss the technical and social infrastructure of the Internet, problems of education and access, the nature of e-business and other online organizations, and social issues such as censorship. Much of the course will concentrate on people’s uses of the Internet, from social movements and political advocacy on the Web, to various kinds of virtual communities. Enrollment limited to 15. *Instructor: Long*

SOCI 411(F)  SOCIAL CHANGE (3-0-3)
An analysis of the accelerating trends that have transformed human societies during the past 30 years, with particular reference to ongoing transformations in the economic foundations and ethnic composition of the United States and in threats to the global environment and the capitalist world system; individual and collective responses to the challenges of our time. *Instructor: Klineberg*
SOCI 419(F)  ADVANCED RESEARCH SEMINAR: HUMAN STATUS BEHAVIOR (3-0-3)
Seminar exploring status display, invidious distinctions in human communities, and the positive and negative functions of status hierarchy. Includes an analysis of novels, movies, survey research data, and ethnographic data. Instructor: Davidson

SOCI 421(F)  THE CRAFT OF SOCIOLOGY (3-0-3)
Exploration of the “work” of sociology. Includes its historical and social origins and development, and its shifting philosophical foundations, methodological refinements, and ethical and political implications, as well as discussion of classic and controversial sociological studies. Required (normally) for sociology majors. Instructor: Long

SOCI 425(S)  POLITICAL SOCIOLOGY (3-0-3)
Can democracy survive its enemies: tyranny of ruling elites and classes, tyranny of the majority, ethnic and religious conflict, individualism, government secrecy, citizen apathy? Also offered as POLI 425. Enrollment limited to 15. Instructor: Davidson

SOCI 430(S)  SOCIOLOGY OF RELIGION (3-0-3)
Study of religious beliefs, symbols, actions, organizations, roles, and various interrelationships between religion and society. Includes new religious movements, secularization, and fundamentalism. Fieldwork required. Enrollment limited to 40. Instructor: Martin

SOCI 431  THE CRIMINAL JUSTICE SYSTEM (3-0-3)
This course will focus on the three major components of the criminal justice system: the police, the courts, and corrections. It will give attention to the development of the police role, the contemporary nature of policing (including community policing), and the system of legal limitations within which the police must operate, and police culture. It will examine the roles of judges, prosecutors, defense attorneys, plea bargaining, juries, appeals, pre-sentence investigation, and sentencing. Finally, it will pay special attention to issues of responsibility and punishment (including the death penalty), and to various correctional options such as prisons, probation, parole, and alternatives. Each segment of the course will include attention to issues of viable public policy. Enrollment limited to 30. Instructors: Martin, Jablecki

SOCI 436(S)  ADVANCED RESEARCH SEMINAR: THE HOUSTON AREA SURVEY (3-1-4)
Continuation of the series of annual surveys on how Houston residents are reacting to changes in American society. Includes sampling procedures, questionnaire construction, interviewing, data analysis, and the logic and skills of survey research. Culminates in a research report that develops empirical hypotheses and tests their validity with survey findings. Prerequisite: SOCI 398 and permission of instructor. Instructor: Klineberg

SOCI 445  SOCIOLOGY OF CULTURE (3-0-3)
This course surveys the different sociological approaches to studying culture. Part I focuses on the relationships between culture and social structure, including various theoretical approaches. Part II examines different perspectives on modern culture. Instructor: Long

SOCI 450(S)  TOPICS IN THE STUDY OF RELIGION: FUNDAMENTALISM (3-0-3)
Examination of fundamentalist religious institutions, behavior, and thought. Includes fundamentalist attitudes toward, participation in, and impact on politics, economics, education, mass communication, and family life, using Christian, Islamic, and Jewish examples. Fieldwork required. Enrollment limited to 20. Instructor: Martin

SOCI 492(S)  DIRECTED HONORS RESEARCH (3-0-3)
Sociological research under faculty supervision. Includes first-semester review of relevant literature and the preparation of an outline for planned research, followed by second-semester research and the writing of an honors thesis. Open only to students in sociology honors program.
Social Sciences (SOSC)

The School of Social Sciences

**SOSC 300(S)**  **SOCIAL SCIENCE AND PUBLIC POLICY** (3-0-3)
Survey of how different disciplines in the social sciences treat public policy. Includes specific policy questions as a means of highlighting each discipline’s approach to the study of public policy. *Instructor: Stein*

**SOSC 301(F)**  **POLICY ANALYSIS** (3-0-3)
Familiarizes students with the analytical tools necessary for evaluating and analyzing public policies. Also offered as POLI 338. *Instructor: Ostdiek*

**SOSC 330(S)**  **HEALTHCARE REFORM IN THE 50 STATES** (3-0-3)
Examination of those states that have undertaken comprehensive health system reform, have carried out more limited revisions, or have failed to even begin the process, assessing successes and failures. Includes general theories of state-federal relationships and the role of the federal government in state health reform. *Instructor: Rosenau*

**SOSC 400**  **POLICY STUDIES RESEARCH SEMINAR** (hours variable)
Advanced research in public policy. Students will complete a policy study or policy analysis in a substantive policy area. Prerequisite: permission of instructor. *Instructor: Ostdiek*

**SOSC 420(S)**  **HEALTHCARE: COMPETITION AND MANAGED CARE** (3-0-3)
Introduction to managed care and its distinguishing characteristics. Includes managed care and market competition and impact on science in general and medical science in particular, as well as evaluation of how competition and regulation influence the development, assessment, and diffusion of new health technologies within the managed care framework. *Instructor: Rosenau*

**SOSC 430(S)**  **THE SHAPING OF HEALTH POLICY** (3-0-3)
Study of how healthcare policy decisions are made and implemented, using an interdisciplinary approach involving government, law, ethics, economics, and history. Includes case discussions of major policy problems by faculty experts in these disciplines and guest speakers who are leading national figures in the shaping of public policy. Class meets at an off-campus location; for information, call (713) 500-9491. *Instructor: Rosenau*

Spanish (SPAN)

The School of Humanities/Department of Hispanic and Classical Studies

**SPAN 101**  **INTRODUCTION TO SPANISH LANGUAGE AND CULTURE I** (3-2-5)
Spanish 101 is a course designed for people who have little or no knowledge of Spanish. Based on a task-oriented approach to language and culture learning, Spanish 101 allows the beginning student to develop the necessary abilities to communicate satisfactorily in Spanish in everyday situations. Students are expected to be active participants in the learning process. Class meetings are not based on lectures, but rely heavily on student interaction. Prerequisite: placement or permission of the instructor. Enrollment is limited to 20 per section. *Instructor: Staff*

**SPAN 102**  **INTRODUCTION TO SPANISH LANGUAGE AND CULTURE II** (3-2-5)
Continuation of SPAN 101. Prerequisite: SPAN 101, placement, or permission of coordinator. Enrollment limited to 20. *Instructor: Staff*
SPAN 103(F)  A REINTRODUCTION TO SPANISH FOR BICULTURAL STUDENTS  (3-1-4)
Intended for students who have been exposed to Spanish and who want to improve their formal knowledge of the language. The course is designed to capitalize upon students’ existing knowledge. Through a variety of media—internet, short written texts, short clips, etc.—the class will explore the structural elements necessary to begin to speak and write with confidence. Prerequisite: placement, previous exposure to Spanish (e.g., family, travel, community), or permission of instructor. Enrollment is limited to 20. Instructor: Groskreutz

SPAN 113  BEGINNING SPANISH FOR ENGINEERING AND SCIENCES I  (3-2-5)
Single summer course offered in August. Intensive introductory Spanish for students in engineering or in the sciences. Focus on communicative competence, cultural awareness, and engineering and science-related content. Multimedia integration. 4 hours daily, M-F, 3-week session. Approval of instructor required. Enrollment is limited to 20. Instructor: Jose Narbona

SPAN 114(F)  BEGINNING SPANISH FOR ENGINEERING AND SCIENCES II  (3-1-4)
Continuation of introduction to Spanish for students in engineering or in the sciences. Focus on communicative competence, cultural awareness, and engineering and science-related content. Multimedia integration. Prerequisite: SPAN 113 or SPAN 201. Approval of instructor required. Enrollment is limited to 20. Instructor: Narbona

SPAN 201  INTERMEDIATE SPANISH LANGUAGE AND CULTURE I  (3-1-4)
Spanish 201 is a course designed for intermediate level Spanish speakers who have achieved the equivalent of first-year Spanish (i.e. Span 101-102). Based on a task-oriented approach to language and culture learning, Spanish 201 allows the intermediate student to improve and expand his communicative skills. Students are expected to be active participants in the learning process. Class meetings are not based on lectures, but rely heavily on student interaction. Prerequisites: SPAN 101 and 102 or permission of the instructor. Enrollment limited to 20 per section. Instructor: Staff

SPAN 202  INTERMEDIATE SPANISH LANGUAGE AND CULTURE II  (3-1-4)
Continuation of Span 201. Prerequisites: SPAN 201 or permission of the instructor. Enrollment limited to 20 per section. Instructor: Staff

SPAN 204(S)  INTERMEDIATE SPANISH FOR BICULTURAL STUDENTS  (3-0-3)
Consolidates and builds on students’ existing knowledge of Spanish in order to enable them to speak and write with greater proficiency. Authentic cultural materials—short stories, newspaper articles, internet, films, etc.—will be used to enhance ability to read, write, and speak Spanish. Prerequisites: SPAN 103, placement, previous exposure to Spanish, or permission of instructor. Enrollment is limited to 20. Instructor: Staff

SPAN 213(S)  INTERMEDIATE SPANISH FOR ENGINEERING AND SCIENCES  (3-1-4)
Intermediate Spanish for students in engineering and the sciences. Expansion of engineering and science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. Prerequisite: SPAN 114 or SPAN 102. Approval of instructor required. Instructor: Narbona

SPAN 214  INTERMEDIATE SPANISH FOR ENGINEERING AND SCIENCES  (3-1-4)
Single summer course offered in May. Intensive intermediate Spanish for students in engineering or the sciences. Expansion of engineering and science-related content. Focus on communicative competence and cultural awareness. Multimedia integration. Preparation for professional language use during work and/or study abroad. 3 hours daily; M-F, 3-week session. Prerequisite: SPAN 213 or SPAN 201. Approval of instructor required. Instructor: Narbona

(F) = fall; (S) = spring
SPAN 301  ADVANCED SPANISH I (3-0-3)
Brings students from intermediate to advanced level of proficiency in Spanish. Focuses on developing fluency and communicative competence through exposure to literary texts, newspaper and web articles, and films and videos in their cultural context. Emphasis will be on conversation strategies, vocabulary expansion, and the writing of essays. Prerequisites: SPAN 202, placement, or permission of instructor. Enrollment limited to 20. Instructor: Staff

SPAN 302  ADVANCED SPANISH II (3-0-3)
Continuation of Span 301. Prerequisites: SPAN 301, placement or permission of the instructor. Enrollment limited to 20 per section. Instructor: Staff

SPAN 303(F)  ADVANCED SPANISH FOR BICULTURAL STUDENTS (3-0-3)
Aims to bring students to advanced proficiency in Spanish, enabling them to interact confidently in a wide variety of contexts, while providing them with cultural insights about the Hispanic world. Designed for students who come with bicultural exposure and at least intermediate proficiency in Spanish and who want to refine their written and oral command of the language. Informal and formal discussion in class, presentations, and readings from the Spanish-speaking world, including the U.S., will constitute the core of the class. Prerequisites: SPAN 204, placement, or permission of instructor. Enrollment limited to 20. Instructor: Salas

SPAN 304(S)  LATIN AMERICAN LITERATURE (3-0-3)
Study of selected works of outstanding writers from Latin America. All readings and class discussions in English. Open to all students. Not offered 2001–2002. Instructor: Salas

SPAN 305(F)  COMMERCIAL SPANISH I (3-0-3)
Familiarizes students with the world of business in Spanish through authentic tasks dealing with current socioeconomic events and cross-cultural awareness issues, as well as the present-day political and economic situation of Spain and the different Latin American countries. Activities will include commercial correspondence and reports, professional presentations, debates, and other techniques conducive to success in the Spanish-speaking business world. Supranational organizations in the area (Mercosur, NAFTA, and the European Union) will be the major topic of a final project for the class. The course will be of special interest to students planning to take the Madrid Chamber of Commerce Examination in Commercial Spanish in the spring semester and to those interested in applying for internships in Spanish-speaking countries. Prerequisite: intermediate level of Spanish or permission of instructor. Enrollment limited to 20. Instructor: Narbona

SPAN 306(S)  COMMERCIAL SPANISH II (3-0-3)
Further development of SPAN 305 goals: vocabulary, concepts, language, and cultural skills necessary to communicate successfully in the socioeconomic and cultural milieu of contemporary Hispanic countries. The course emphasizes practical business techniques and specific areas of commerce such as insurance, investment, and advertising, focusing on several specific Latin American countries. A practical case of marketing will be the final project for the class. The course will prepare students who plan to take the Madrid Chamber of Commerce Examination in Commercial Spanish, which is offered each spring semester. The course will also be useful to those interested in applying for internships in Spanish-speaking countries. Prerequisite: SPAN 305 or permission of instructor. Enrollment limited to 20. Instructor: Narbona

SPAN 307(F)  THE LANGUAGE AND CULTURE OF MEDICINE AND HEALTHCARE (3-0-3)
An exploration of the differences between Anglo–American and Latin–American languages and cultures of medicine. This course will navigate the treacherous socioeconomic and cultural rifts between high-tech Anglo–American medical institutions and rural Latin-American conceptions of the role of doctors, medicine, and healthcare. Through live and taped interviews and presentations made by healthcare providers, students will gain firsthand knowledge of the varieties of Spanish and of the problems posed by norms and protocols and customs and courtesy to the medical translator, interpreter, or healthcare provider. Of special interest to students interested in Latin–American culture and those wishing to pursue careers in the health professions, medical translation, or interpretation. Prerequisites: 4 semesters of Spanish or equivalent proficiency, or permission of instructor. Enrollment limited to 25. Instructor: Albin

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
SPAN 308(S) **THE LANGUAGE OF MEDICINE AND HEALTHCARE** *(3-1-4)*

**SECTION 1:** Students will continue to study the body’s major organ systems and apply their knowledge to the translation of patient education materials, patient instructions, case reports, and other clinical documents. Students enrolled in SPAN 308 in the fall will be required to work as clinical English–Spanish interpreters in one or more of the following institutions: M.D. Anderson Cancer Center and Tumor Institute, Ben Taub Hospital (Harris County Hospital District), Baptist Student Ministries (Medical Missions in Mexico), LifeGift of Houston (Organ Donation Center), and/or other approved volunteer clinical programs. Prerequisite: SPAN 307 or permission of instructor. Enrollment limited to 25. *Instructor: Albin*

**SECTION 2:** Internships (credit varies, 1–3). The number of credits granted is based on the number of internship hours. This section is normally taken in conjunction with SPAN 308, section 1. However, special permission to take it separately may be granted by instructor. Prerequisite: SPAN 307 or permission of instructor. Enrollment limited to 25. *Instructor: Albin*

SPAN 310(S) **THE LANGUAGE OF MEDICINE AND HEALTHCARE PRACTICUM** *(credit varies, 1–3)*
The number of credits granted is based on the number of internship hours. This class is taken in conjunction with SPAN 308. However, special permission to take separately may be granted by instructor. Prerequisite: Permission of instructor. *Instructor: Albin*

SPAN 314(F) **SCIENTIFIC SPANISH** *(3-0-3)*
Content-based course in Spanish in which the student will be familiarized with vocabulary and uses of the language necessary to deal with scientific issues in the Spanish-speaking world. Activities in class will include reading current scientific texts, presentations, authentic tasks and problems and special issues concerning the fields in which the student is interested. We will also focus on everyday Spanish and cross-cultural topics in order to prepare the student for a possible internship in a Spanish-speaking country. Prerequisites: intermediate level of Spanish or permission of instructor. Enrollment limited to 20. Not offered 2001–2002. *Instructor: Narbona*

SPAN 315(F) **STUDIES IN HISPANIC LINGUISTICS** *(3-0-3)*
Content varies from year to year. Topics include the history of the Spanish language, Old Spanish, and Spanish American dialectology and the linguistic structure of Spanish. Also offered as LING 424 and MDST 424. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 316(S) **STUDIES IN HISPANIC LINGUISTICS** *(3-0-3)*
Topic: The Evolution of Spanish. This course surveys the historical development of dialectal differences in Spanish, the factors that affect the formation of dialects (geographic, social class, gender, etc.), prescriptive vs. descriptive accounts of Spanish, and the future of Spanish as a world language. Also offered as LING 424 and MDST 424. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 318(F) **ADVANCED CONVERSATION AND COMPOSITION** *(3-0-3)*
The main emphasis of this course is on the acquisition of vocabulary and intensive practice in spoken and written Spanish through a variety of media. Review of phonology, morphology, and syntax as well as a comparison of “standard” Spanish to Chilean variations. Prerequisite: second-year competency. Offered only as part of the Fall Semester in Chile Program. *Instructor: Rea*

SPAN 319(F) **SURVEY OF SPANISH LITERATURE** *(3-0-3)*
Survey of Spanish literature, from the 11th to the 17th centuries, with emphasis on stylistic and cultural analysis. The primary sources (prose, poetry, and drama) are the focus of lectures and discussion. Not offered 2001–2002. *Instructor: Mérida-Jimenez*

SPAN 320(S) **SURVEY OF SPANISH LITERATURE** *(3-0-3)*
Continuation of SPAN 319. Includes representative readings from 1700 to the present, with emphasis on stylistic and cultural analysis and literary traditions. The primary sources (prose, poetry, and drama) are the focus of lectures and discussions. Not offered 2001–2002. *Instructor: Pérez*
SPAN 321(F)  SURVEY OF SPANISH AMERICAN LITERATURE (3-0-3)
Analysis of a number of foundational works by representative authors from the major historical periods of Spanish American literature. Instructor: González-Stephan

SPAN 322(S)  SURVEY OF SPANISH AMERICAN LITERATURE (3-0-3)
Continuation of SPAN 321. Survey of 20th-century Spanish American literature, with a focus on issues of modernity and national identity. Instructor: van Delden

SPAN 323(F)  SPANISH CULTURE AND CIVILIZATION (3-0-3)
Topics relating to the development of social, political, and economic institutions of Spain form the basis for extensive conversation, discussion, and composition. Instructor: Castañeda

SPAN 324(S)  CULTURE AND CIVILIZATION OF LATIN AMERICA (3-0-3)
Topics relating to the development of social, cultural, political, and economic institutions of Latin America form the basis for extensive conversation, discussion, and composition. Instructor: González-Stephan

SPAN 331(S)  ADVANCED SPANISH FOR BI-CULTURAL STUDENTS PRACTICUM (credit varies, 1–3)
The number of credits granted is based on the number of internship hours. This class is taken in conjunction with SPAN 303. However, special permission to take separately may be granted by instructor: Prerequisite: Permission of instructor. Instructor: Salas

SPAN 332(S)  LANGUAGE AND CULTURE OF HISPANICS IN U.S. PRACTICUM (credit varies, 1–3)
The number of credits granted is based on the number of internship hours. This class is taken in conjunction with SPAN 404. However, special permission to take separately may be granted by instructor: Prerequisite: Permission of instructor. Instructor: Salas

SPAN 335(F)  THE MODERN SPANISH ESSAY (1700–PRESENT) (3-0-3)
Topic: Adventures in Spanish Thought from 1830–1940. Readings and discussions of six major essayists: Mariano José de Larra, José Martínez Ruíz (“Azorín”), Miguel de Unamuno, José Ortega y Gasset, Antonio Machado, and María Zambrano. This course is designed to improve students’ powers of oral and written expression in Spanish, sharpen their ability to analyze literary texts, and introduce central issues and debates in Spanish culture. Prerequisite: SPAN 302 or equivalent reading knowledge of Spanish. Topics vary. Course may be repeated for credit. Not offered 2001–2002. Instructor: Kauffmann

SPAN 341(F)  MODERN SPANISH LITERATURE (3-0-3)
Content varies from year to year. Sample topics: the Spanish Enlightenment, the Generation of ’98, the works of Miguel de Unamuno, the works of Antonio Machado. Not offered 2001–2002. Instructor: Kauffmann

SPAN 342(S)  MODERN SPANISH LITERATURE (3-0-3)
Content varies from year to year. (e.g., 19th-century Spanish fiction, contemporary Spanish lyric poetry, and the Spanish novel in the 20th century). Topic for spring 2002: Contemporary Poetry. Instructor: Pérez

SPAN 345 (F)  THE SPANISH GENERATION OF 1898 (3-0-3)
Examines representative works by Spanish writers and artists during the period 1890–1914, with particular emphasis on the discourse and imagery of national identity. Looks critically at the evolution of “The Generation of ’98” as a historiographic concept in the twentieth century. Instructor: Kauffmann

SPAN 352(F)  WRITING IN SPANISH: STYLISTICS AND COMPOSITION (3-0-3)
Students analyze the style of selected texts, participate in discussions, and practice writing critically and/or creatively in Spanish. Models include ads, business letters, newspaper articles, essays, and short stories. Enrollment limited to 20. Instructor: Pérez

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
SPAN 361(F) STUDIES IN GOLDEN AGE DRAMA (3-0-3)
Study of the development of the *comedia* in Spain. Includes Lope de Vega, Tirso de Molina, Ruiz de Alarcón, and other 17th-century playwrights. Content varies from year to year. Offered alternate years. *Instructor: Castañeda*

SPAN 362(S) GOLDEN AGE DRAMA (3-0-3)
Continuation of SPAN 361. Includes Calderón de la Barca, Moreto, Rojas Zorrilla, and other 17th-century playwrights. *Instructor: Castañeda*

SPAN 381(F) PROSE AND LYRIC POETRY OF THE GOLDEN AGE (3-0-3)
Analysis of Spanish poetry and prose, with emphasis on Cervantes’s *Don Quijote, Part I*. Also includes the development of lyric poetry from Garcilaso to Góngora and the picaresque novel. Offered in alternate years. Not offered 2001–2002. *Instructor: Castañeda*

SPAN 382(S) PROSE AND LYRIC POETRY OF THE GOLDEN AGE (3-0-3)
Continuation of SPAN 381, with emphasis on Cervantes’ *Don Quijote, Part II* and on the development of the baroque. Offered in alternate years. Not offered 2001–2002. *Instructor: Castañeda*

SPAN 391(S) HISPANIC WOMEN WRITERS
Exploration of the ways in which women writers in the 8th through 17th centuries have developed their literary works (prose, poetry, and drama). Emphasis on historical, religious, and political contexts. Readings will include Hispanic and Latin American authors: Sor Teresa de Cartagena, Sor Isabel de Villena (15th century); Santa Teresa de Jesús, Beatriz Bernal (16th century); and María de Zayas and Sor Juana Inés de la Cruz (17th century), among others. Also offered as WGST 391 and MDST 391. *Instructor: Mérida-Jiménez*

SPAN 403(S) ADVANCED SPANISH THROUGH MEDIA (3-0-3)

SPAN 404(S) LANGUAGE AND CULTURE OF HISPANICS IN THE UNITED STATES (3-0-3)
Linguistic aim is to consolidate an advanced level of proficiency in bilingual students. The course will also explore issues of the cultural identity of Spanish speakers by studying various manifestations of Hispanic culture in the U.S. as expressed in movies, documentaries, Spanish-language TV, periodicals, short stories, novels, and drama. The course will study Hispanic culture in the U.S. from three different viewpoints: historical, literary, and sociolinguistic. Prerequisites: SPAN 303, placement, or permission of instructor. Enrollment limited to 20. *Instructor: Salas*

SPAN 405(F) STUDIES IN LATIN AMERICAN LITERATURE (3-0-3)
**SECTION 1:** Study of the main historical periods and literary-cultural movements of Latin America, including questions of gender, the formation of social subjects, institutional processes, tensions between tradition and modernity, formation of a literate reading public, and the dialogue among the various arts. Topic for fall 2001: Modernization and the institutions of discipline in Latin American culture since the 19th century. Technologies of subjectivity, production of national citizenship and territorial space, marginalization, and the medicalization of the body. *Instructor: González-Stephan*

**SECTION 2:** TBA—Offered ONLY as part of the Fall Semester in Chile program. *Instructor: Rea*

SPAN 406(S) STUDIES IN LATIN AMERICAN LITERATURE (3-0-3)
Topic for Spring 2002: The Modern Mexican Novel. The Mexican Novel from the 1950s to the 1990s. Focus on the interrelations between innovations in narrative form and the socio-political conditions shaping Mexican writing of the second half of the twentieth century. Works by Rulfo, Fuentes, Castellanos, Poniatowska and others. *Instructor: van Delden*
SPAN 414(S)  SECOND LANGUAGE ACQUISITION (3-0-3)
Review and analysis of major theoretical approaches to second-language acquisition among adults. Majors topics covered re: linguistic, cognitive and sociocultural factors in language development, instructed and non-instructed settings, research methodologies, developmental stages of acquisition. Major emphasis on morphosyntactic development, but attention to phonetics and lexicon too. *Instructor: Salaberry*

SPAN 415(F)  THE ART AND MECHANICS OF TRANSLATION (3-0-3)
An introduction to the craft of translation. Working with various types of texts in English and Spanish, students will begin to acquire the theoretical, linguistic, and research tools to solve common translation problems, exploring the cultural and linguistic patterns and contrasts that most affect Spanish–English translation. This course will increase vocabularies, improve Spanish proficiency, broaden cross-cultural understanding, and strengthen students’ communicative abilities, both in Spanish and English. Prerequisites: SPAN 302, SPAN 303, or permission of instructor. *Instructor: Albin*

SPAN 416(S)  ADVANCED TRANSLATION (3-0-3)
Continuing the aims and methods of SPAN 415, this course takes into account that effective translators are, first and foremost, good readers, critically aware of the rhetorical strategies and cultural assumptions of writers. The goal of this sequence is to train students in the exacting craft of reading and analyzing source texts and in producing faithful translations. Prerequisite: SPAN 415 or permission of instructor. *Instructor: Albin*

SPAN 417(F)  LITERARY TRANSLATION (3-0-3)
Students will review translation theory, examine central issues and learn strategies in order to practice solving specific problems posed by literary translation (poetry, prose, and drama). Prerequisite: SPAN 415 or equivalent. *Instructor: Pérez*

SPAN 418(S)  MEDIEVAL SPANISH LITERATURE (3-0-3)
This course offers analytical insight into the key development of the history of Iberian literatures from the 10th to the 15th century. The approach will incorporate recent scholarship in women and gender studies, as well as some of the more important resources for the study of Hispanic cultures (e.g., printed and electronic editions, video, internet). Also offered as MDST 418. *Instructor: Mérida-Jiménez*

SPAN 420(S)  LITERARY SEMIOTICS (3-0-3)
Application of semiotic models to the study of literature. Not offered 2001–2002. *Instructor: Kauffmann*

SPAN 421(F)  INDEPENDENT WORK (3-0-3)

SPAN 422(S)  INDEPENDENT WORK
Research in Hispanic literature, Hispanic linguistics, and Hispanic culture and civilization. Open to qualified juniors and seniors interested in a topic not covered in other courses. Prerequisite: permission of department.

SPAN 423(F)  LINGUISTIC STRUCTURE OF SPANISH (3-0-3)
Synchronic study of modern Spanish phonology, morphology, and syntax, with emphasis on Hispanic American variants. Open to graduate students for credit. Also offered as LING 423. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 424(S)  LINGUISTIC STRUCTURE OF SPANISH (3-0-3)
Continuation of SPAN 423. Also offered as LING 423. Open to graduate students for credit. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 426(S)  WOMEN AND GENDER IN MEDIEVAL IBERIA (3-0-3)
Comparative introduction and analysis of the different cultures of the Iberian Middle Ages and the role of gender in literary genres. Exploration of the ways in which women have been represented in the 11th through 15th centuries. Some of the main topics will be (homo)eroticism, motherhood, and prostitution. Also offered as WGST 426 and MDST 426. Not offered 2001–2002. *Instructor: Mérida-Jiménez*
SPAN 444  **THE SPANISH AVANT-GARDE**  (3-0-3)
A cross-genre, multimedia course that studies major figures of the Spanish avant-garde in the 20th century (Picasso, Gris, Dalí, Diego, Alberti, Lorca, Buñuel, Gómez de la Serna). Prerequisite: SPAN 302 or equivalent. Not offered 2001–2002. *Instructor: Pérez*

SPAN 470(S)  **COMPARATIVE STUDIES IN LITERATURE AND THEORY**  (3-0-3)
Comparative analysis of modern (e.g., post-Renaissance) literary genres, modes, movements, influences, and authors across two or more cultures, primarily English, Spanish, French, and German speaking, in relation to broader cultural discourses. Includes major critical theories, schools, and methods, other arts and media (e.g., painting and film), and other disciplines (e.g., philosophy, anthropology, linguistics, and cultural studies). Topics vary. Taught in English. Not offered 2001–2002. *Instructor: Kauffmann*

SPAN 503(F)  **LINGUISTIC STRUCTURE OF SPANISH**  (3-0-3)
Graduate version of SPAN 423. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 504(S)  **LINGUISTIC STRUCTURE OF SPANISH**  (3-0-3)

SPAN 511(S)  **METHODS OF RESEARCH IN HISPANIC LITERATURE**  (3-0-3)
Introduction to the study of literary theory and of major modes of criticism and interpretation, as well as bibliographical resources, in Hispanic literary studies. Open to beginning graduate students. Not offered 2001–2002.

SPAN 515(F)  **STUDIES IN HISPANIC LINGUISTICS**  (3-0-3)
Graduate version of SPAN 315. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 516(S)  **STUDIES IN HISPANIC LINGUISTICS**  (3-0-3)
Graduate version of SPAN 316. Not offered 2001–2002. *Instructor: Salaberry*

SPAN 518(S)  **STUDIES IN MEDIEVAL SPANISH LITERATURE**  (3-0-3)
Graduate version of SPAN 418. *Instructor: Mérida-Jiménez*

SPAN 520(S)  **STUDIES IN LITERARY SEMIOTICS**  (3-0-3)
Graduate version of SPAN 420. Not offered 2001–2002. *Instructor: Kauffmann*

SPAN 523(F)  **STUDIES IN GOLDEN AGE DRAMA**  (3-0-3)
Graduate version of SPAN 361. *Instructor: Castañeda*

SPAN 524(S)  **STUDIES IN GOLDEN AGE DRAMA**  (3-0-3)

SPAN 525(F)  **PROSE AND LYRIC POETRY OF THE GOLDEN AGE: DON QUIJOTE**  (3-0-3)
Graduate version of SPAN 381. Not offered 2001–2002. *Instructor: Castañeda*

SPAN 526(S)  **PROSE AND LYRIC POETRY OF THE GOLDEN AGE: DON QUIJOTE**  (3-0-3)
Graduate version of SPAN 382. Not offered 2001–2002. *Instructor: Castañeda*

SPAN 535(F)  **THE MODERN SPANISH ESSAY (1700–PRESENT)**  (3-0-3)
Graduate version of SPAN 325. Not offered 2001–2002. *Instructor: Kauffmann*

SPAN 541(F)  **STUDIES IN MODERN SPANISH LITERATURE**  (3-0-3)
Graduate version of SPAN 341. Not offered 2001–2002. *Instructor: Kauffmann*

SPAN 542(S)  **MODERN SPANISH LITERATURE**  (3-0-3)
Graduate version of SPAN 342. *Instructor: Pérez*

(F) = fall; (S) = spring
SPAN 545(F)  THE SPANISH GENERATION OF 1898 / FIN DE SIGLO
Graduate version of 345. Instructor: Kauffmann

SPAN 555(F)  STUDIES IN LATIN AMERICAN LITERATURE (3-0-3)
Graduate version of SPAN 405. Topics vary. May be repeated for credit. Instructor: Staff

SPAN 556(S)  STUDIES IN LATIN AMERICAN LITERATURE (3-0-3)
Graduate version of SPAN 406. Topics vary. May be repeated for credit. Instructor: van Delden

SPAN 570(S)  COMPARATIVE STUDIES IN LITERATURE AND THEORY (3-0-3)

SPAN 591(F)  INDEPENDENT STUDY (hours variable)
SPAN 592(S)
Research in Hispanic literature, Hispanic linguistics, and Hispanic culture and civilization. Open to graduate students interested in a topic not covered in other courses. Prerequisite: permission of department.

SPAN 610(F)  TOPICS IN LANGUAGE METHODOLOGY (3-1-4)
Exploration and analysis of a range of theories, issues, and problems in foreign language instruction. Areas of inquiry include the nature of language acquisition, pedagogical methods, instructional technologies, development of teaching materials, and testing/assessment. Offered every year. Required course for all graduate language teaching assistants. Also offered as FREN 610, GERM 510, and LING 610. Instructor: Kecht

SPAN 611(S)  LANGUAGE METHODOLOGY PRACTICUM (hours variable)
The course, a continuation of LING 610, allows students to gain further knowledge and expertise in aspects of language methodology by attending a series of workshops on topics such as technology and language learning, writing, and content-based instruction. Students will also complete assignments that supplement or expand on the material presented in the workshops. Also offered as GERM 611, FREN 611, LING 611. Instructors: Kecht

SPAN 701(F)  RESEARCH LEADING TO CANDIDACY (hours variable)
Research in Spanish and Latin American literature and Spanish linguistics.

SPAN 702(S)  RESEARCH LEADING TO CANDIDACY (hours variable)
Taken after students have completed departmental course requirements for the master’s degree but before being admitted to candidacy.

SPAN 801(F)  RESEARCH FOR M.A. THESIS (hours variable)
SPAN 802(S)

Statistics (STAT)
The George R. Brown School of Engineering

STAT 100(S)  DATA MODELS AND REALITY: AN INTRODUCTION TO THE SCIENTIFIC METHODS (3-0-3)
The Formation of Models of Reality and the ways models are tested by their analysis in the light of data are considered. We cover a variety of examples from antiquity to the present time. Instructor: Thompson

STAT 280  ELEMENTARY APPLIED STATISTICS (2-2-4)
Introduction to statistical methods, with emphasis on techniques. Includes computer-assisted data analysis in lab sessions.

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
STAT 300(S)  MODEL BUILDING (3-0-3)
Study of examples to illustrate the mathematical formulation (modeling) of scientific problems, their solution, and their interpretation. Required (normally) for statistics majors. Prerequisite: MATH 211 or permission of instructor. Instructor: Kimmel

STAT 305(S)  INTRODUCTION TO STATISTICS FOR BIO SCIENCES (3-1-4)
Introduction to statistical models and data analysis techniques. Includes an exploration of computer-assisted data analysis with biological examples in lab sessions. Instructor: Cox

STAT 310  PROBABILITY AND STATISTICS (3-0-3)
Study of probability theory and the central concepts and methods of statistics. Required (normally) for statistics majors. MATH 212 recommended. Prerequisite: MATH 102. Also offered as ECON 382. Instructor: Staff

STAT 331(F)  APPLIED PROBABILITY (3-0-3)
Elementary probability theory, conditional probability, independence, discrete and continuous distributions, transformation techniques, central limit theorems, estimation, correlation, and regression. Selected topics such as the Poisson process, Markov chains, and statistical techniques. Illustration from engineering. Prerequisite: MATH 212. Also offered as ELEC 331. Instructor: Olofsson

STAT 339(F)  STATISTICAL METHODS—PSYCHOLOGY (3-1-4)
Introduction to quantitative and computer methods applicable to the analysis of experimental data. Limited enrollment (50). Required for psychology majors. Prerequisite: PSYC 101 or permission of instructor. Also offered as PSYC 339. Enrollment limited to 50. Instructor: Quiñones

STAT 381  INTRODUCTION TO APPLIED PROBABILITY (3-0-3)
Now offered as STAT 331.

STAT 400(S)  ECONOMETRICS (3-0-3)
Survey of estimation and forecasting models. Includes multiple regression time series, contingency table analysis, and Bayesian inference. Required for mathematical economic analysis majors. Prerequisite: ECON 382 (STAT 310) or STAT 381. Also offered as ECON 400. Instructor: Chang

STAT 410(S)  INTRODUCTION TO STATISTICAL COMPUTING AND LINEAR MODELS (3-0-3)
Survey of statistical methods, with emphasis on computing and computing environments, focusing on applied regression and analysis of variance. Prerequisite: STAT 310 or permission of instructor. Instructor: Staff

STAT 420(S)  QUALITY AND PROCESS CONTROL FROM AN EXPERIMENTAL DESIGN PERSPECTIVE (3-0-3)
Examination of the historical development of quality control. Includes the approaches of Ford, Pareto, Shewhart, Deming, Box, and Tageuchi. Prerequisite: STAT 310 or permission of instructor. Instructor: Staff

STAT 421(F)  INTRODUCTION TO TIME SERIES ANALYSIS (3-0-3)
Time series modeling and forecasting. Prerequisite: STAT 310 or permission of instructor. Instructor: Ensor

STAT 422(S)  BAYESIAN DATA ANALYSIS (3-0-3)
This course will cover Bayesian methods for analyzing data. The emphasis will be on applied data analysis rather than theoretical development. We will consider a variety of models, including linear regression, hierarchical models, and models for categorical data. We will also discuss computational issues such as approximation and simulation-based inference. Prerequisite: STAT 310 or permission of instructor. Instructor: Rosner
STAT 431(F)  MATHEMATICAL STATISTICS (3-0-3)
A review of probability theory, including generating functions, common families of distributions, multivariate distributions, and hierarchical modeling. Foundations of statistical inference, including sampling distributions, principles of data reduction, maximum likelihood methods, point and interval estimation, hypothesis testing, and decision theory. Prerequisite: STAT 310 or permission of instructor. *Instructor: Rojo*

STAT 450  PRACTICUM IN STATISTICAL MODELING (2-0-2)
A course in statistical problem solving. Students will interact with faculty and graduate students throughout the Rice research community on statistical problems related to their research. A team-based approach will be utilized in the problem solving exercise, grouping students of varying levels of statistical literacy. Students will be expected to present results in formal written reports and oral presentations. The course will provide practical experience in the use of statistics across the disciplines. Prerequisites: STAT 305 or 310 and one of the following: STAT 410, 421, or 431. *Instructor: Baggett*

STAT 453  BIOSTATISTICS (3-0-3)
Prerequisite: STAT 310. *Instructor: Hess*

STAT 486(S)  MARKET MODELS (3-0-3)
This course takes the classical efficient market models and superimposes upon them models for other stochastic phenomena not generally accounted for in efficient market theory. It shows how risk can be lessened by portfolios and other mechanisms. It discusses reasons why the Black-Scholes option pricing model (which won the 1997 Nobel Prize in economics) is fragile to departures from efficient market theory. The course is oriented toward using computer simulations as an alternative to closed form solutions. Prerequisites: STAT 305, 310, or near equivalent. *Instructor: Thompson*

STAT 490(F)  INDEPENDENT STUDY (3-0-3 each semester)

STAT 491(S)

STAT 503(S)  TOPICS IN METHODS AND DATA ANALYSIS (3-0-3)
Study of applications of least squares and general linear model. Limited enrollment (15). Also offered as POLI 503. *Instructor: Brace*

STAT 509(F)  ADVANCED PSYCHOLOGICAL STATISTICS I (3-0-3)
Introduction to inferential statistics, with emphasis on analysis of variance and multiple regression. Prerequisite: PSYC 501 or permission of instructor. Also offered as PSYC 502.

STAT 510(S)  ADVANCED PSYCHOLOGICAL STATISTICS II (3-0-3)
Continuation of STAT 509, with emphasis on multiple regression. Includes other multivariate techniques and distribution-free statistics. Prerequisite: PSYC 502 or permission of instructor. Also offered as PSYC 503. *Instructor: Lane*

STAT 531(F)  MATHEMATICAL STATISTICS (3-0-3)
Same as STAT 431 with advanced problem sets. Required for graduate students in statistics. *Instructor: Rojo*

STAT 532(S)  ADVANCED STATISTICAL INFERENCE I (3-0-3)
This is the first semester of a two-semester sequence in advanced statistical inference. The foundation of statistical inference will be covered at the measure theoretic level. Topics include: probability-based sampling, sampling distributions, asymptotic theory, small sample inference, point and set estimation, hypothesis testing, decision theory. Prerequisites: STAT 431, 531, 581, or permission of instructor. *Instructor: Rojo*

STAT 533(F)  ADVANCED STATISTICAL INFERENCE II (3-0-3)
A continuation of STAT 532. Prerequisite: STAT 532. *Instructor: Cox*

STAT 540  PRACTICUM IN STATISTICAL MODELING (2-0-2)
Prerequisite: STAT 431 or consent of instructor. For graduate students in statistics. *Instructor: Baggett*
The following STAT 541-559 courses are not offered every year; the prerequisite for all courses is STAT 431 or permission of instructor.

STAT 541(S) MULTIVARIATE ANALYSIS (3-0-3)
Study of multivariate normal theory, principal components, factor analysis, discrimination, and hypothesis testing. Prerequisite: STAT 431 or permission of instructor. Not offered 2001–2002.

STAT 542(S)
Instructor: Scott

STAT 546(S) DESIGN AND ANALYSIS OF EXPERIMENTS AND SAMPLING THEORY (3-0-3)

STAT 550(F) NONPARAMETRIC FUNCTION ESTIMATION (3-0-3)
Instructor: Scott

STAT 551(S) TIME SERIES ANALYSIS AND SPATIAL PROCESSES (3-0-3)

STAT 552(F) APPLIED STOCHASTIC PROCESSES (3-0-3)
Instructor: Thompson

STAT 553(F) BIOSTATISTICS (3-0-3)
Instructor: Hess

STAT 555 STOCHASTIC MODELS IN GENETICS (3-0-3)
Instructor: Kimmel

STAT 581(F) MATHEMATICAL PROBABILITY I (3-0-3)
The measure-theoretic foundations of probability. Open to qualified undergraduates. Also offered as CAAM 581. Instructor: Olofsson

STAT 582(S) MATHEMATICAL PROBABILITY II (3-0-3)
Continuation of STAT 581. Also offered as CAAM 582. Instructor: Olofsson

STAT 583(F) INTRODUCTION TO RANDOM PROCESSES AND APPLICATIONS (3-0-3)
Review of basic probability and the formulation, analysis, representations, and applications of some standard random processes. Includes sequence of random variables, random vectors and estimation, basic concepts of random processes, random processes in linear systems, expansion of random processes, wiener filtering, spectral representation of random processes, and white-noise integrals. Also offered as CAAM 583 and ELEC 533. Instructor: Aazhang

STAT 584(S) ESTIMATION THEORY (3-0-3)
Study of maximum likelihood and Bayesian vector parameter estimation, minimum mean square error estimation, and time series analysis. Includes algorithms based on state variable and ARMA models for signal estimation, model identification, and spectral estimation. Also offered as ELEC 534 and CAAM 584. Not offered every year.

STAT 585 INFORMATION AND CODING THEORY (3-0-3)
Introduction to information theory concepts and basic theorems of channel coding and source coding. Includes techniques of channel coding, parity check codes, an introduction to algebraic coding theory, convolutional codes, and variable-length source coding. Also offered as ELEC 535. Prerequisite: ELEC 331.
STAT 586  SPECTRAL ANALYSIS (3-0-3)
Survey of classical and modern techniques for characterizing the frequency content of signals. Includes review of random processes and linear algebra, Fourier transform-based methods and the periodogram, parametric techniques such as autoregressive (AR) and autoregressive moving average (ARMA) modeling, nonparametric techniques (e.g., minimum variance and eigenspace methods), and time-varying spectral analysis. Also offered as ELEC 532. Prerequisites: ELEC 401 and 430. Instructor: Baraniuk

STAT 590(F)  INDEPENDENT STUDY (3-0-3 each semester)
STAT 591(S)

STAT 600  GRADUATE SEMINAR IN STATISTICS (hours variable)

STAT 604(F)  ADVANCED ECONOMIC STATISTICS (3-0-5)
Instruction in statistical inference and the testing of hypotheses. Includes multiple and partial correlation analysis and analysis of variance and regression. Also offered as ECON 504.

STAT 610(S)  ECONOMETRICS I (3-6-5)
Study of estimation and inference in single equation regression models, multicollinearity, autocorrelated and heteroskedastic disturbances, distributed lags, asymptotic theory, and maximum likelihood techniques, with emphasis on the ability to analyze the literature critically. Prerequisite: ECON 504. Also offered as ECON 510. Instructor: B. Brown

STAT 611(F)  ECONOMETRICS II (3-6-5)
Continuation of STAT 610. Includes linear and nonlinear simultaneous equations estimation, qualitative and categorical dependent variables models, and duration analysis, with applied exercises using SAS and the Wharton Quarterly Econometric Model. Also offered as ECON 511. Prerequisite: ECON 510. Instructor: Sickles

STAT 620 through STAT 689 are seminars on advanced topics in statistics. Recent topics include cluster analysis and pattern recognition, spatial processes, stochastic models in genetics, market models, branching processes, population dynamics, topics in probability, Bayesian statistics, and robust methods.

STAT 620(F)  BAYESIAN FOUNDATIONS OF STATISTICAL INFERENCE (3-0-3)

STAT 800  THESIS (hours variable)

The Theater (THEA)

The School of Humanities/Department of Art and Art History

THEA 100(F)  STAGECRAFT (3-0-3)
Introduction to materials, tools, and standard theatre production techniques. Theory and practice of lighting equipment and controls, scenic building and painting techniques, creation of props, basics of costume construction and technical operation of the stage during production. Instructor: Rigdon

THEA 201  HISTORY OF THEATRE (3-0-3)
Chronological survey of theatre as a sociocultural institution from its origins to the 20th century with a primary emphasis on Western theatre in America and Europe and a secondary emphasis on Asia encompassing the characteristic practices of theatrical architecture, playwriting, texts, directing, acting, technical production aspects, audiences and criticism. Not offered 2001–2002. Instructor: Rigdon.

THEA 300(F)  INTRODUCTION TO DESIGN (3-0-3)
Examination of the basic principles of scenic, lighting and costume design with emphasis on reading and analyzing a variety of plays in different styles, collaboration with directors and other theatre artists, research, written and visual presentation of ideas including concept statements, sketching, technical drawings and/or models. Instructor: Rigdon
THEA 301 ACTING I (3-0-3)
An introduction to the art and theory of acting focusing on the actor’s fundamental tools: voice, body, emotional life and imagination. Instructor: Ramont

THEA 302(S) ACTING II (3-0-3)
Text analysis and scene study for the actor with a particular emphasis on a thorough investigation of given circumstances and dramatic action. Prerequisite: THEA 301 or permission of instructor. Instructor: Ramont

THEA 303 INTRODUCTION TO THEATRE (3-0-3)
A survey course of the art and theory of the theatre through an examination of dramatic literature from the Greeks through the modern era. The course will also explore the craft of the theatre as it is practiced today. This course is cross-listed as ENGL 390. Instructor: Ramont

THEA 304 COSTUME DESIGN (3-0-3)
Study of the principles of costume design through the analysis of character and their relationships to other characters and the world of play. Emphasis on research, written and visual presentation of ideas, rendering techniques, production organization, and collaboration with other theatre artists and directors. Prerequisite THEA 200 or permission of instructor. Not offered 2001–2002. Instructor: Rigdon

THEA 305 LIGHTING DESIGN (3-0-3)
Study of the role that lighting plays in a production and the lighting designers place as an artist in the collaboration process with emphasis on the practical application of the basic theories of light and the use of lighting instruments and controls through a series of projects requiring visual and written presentation of ideas, technical drawings, and accompanying paperwork. Prerequisite THEA 100 and THEA 200 or permission of instructor. Not offered 2001-2002. Instructor: Rigdon.

THEA 306(S) SCENIC DESIGN (3-0-3)
Continued development of the basic principles of scenic design including research, written and visual presentation of ideas, rendering, technical drawing, and model construction through a series of projects based on an analysis of plays and collaboration with directors. Prerequisite: THEA 100, 200 or permission of instructor. Instructor: Rigdon.

THE 307(S) HISTORY OF ARCHITECTURE, INTERIORS AND COSTUME FOR DESIGNERS (3-0-3)
Survey of the major period styles of buildings, homes, furnishings, and clothing from ancient Egypt through the 20th century including a critical analysis of the interdependent nature of the evolution of design and relationship to the cultures in which they were created. This course will prepare students for more advanced work in scenic and costume design. Instructor: Rigdon.

THEA 310(F) ACTING III (3-0-3)
An exploration of language as one of the actor’s primary means of communication and expression. The student will analyze, rehearse and perform sonnets, soliloquies and scenes from the work of William Shakespeare. Prerequisite: THEA 301 and 302 or permission of instructor. Instructor: Ramont

THEA 311(S) ACTING IV (3-0-3)
A scene study course designed to expose the advanced acting student to the challenges of tackling the master playwrights. Students will rehearse and perform scenes from the works of Chekhov, Ibsen, Shaw and the Greeks. Prerequisite: THEA 301 and THEA 302 or permission of instructor. Instructor: Ramont.
THEA–Theater / TIBT–Tibetan / UNIV–University Courses

THEA 312(F)  FUNDAMENTALS OF DIRECTING  (3-0-3)
An introduction course exploring the tools and craft of the stage director. Students will learn how to analyze dramatic text and will gain a fundamental knowledge of the director’s basic skills, including composition, picturization, movement, rhythm and pantomimic dramatization. Prerequisite: THEA 301 and 302 or permission of instructor.  Instructor: Ramont

THEA 329  SPECIAL PROBLEMS: TECHNICAL PRODUCTION  (variable)
Independent Study in Technical Production. Prerequisite: Permission of instructor.  Instructor: Rigdon.

THEA 334  SPECIAL PROBLEMS: HISTORICAL, LITERARY  (variable)
Independent Study in Theatre History and Literature. Prerequisite: Permission of instructor.  Instructor: Ramont.

THEA 431  SPECIAL PROBLEMS: DESIGN, DIRECTING  (variable)
Independent Study in Theatre History and Literature. Prerequisite: Permission of instructor.  Instructors: Ramont, Rigdon.

THEA 435  SPECIAL PROBLEMS: ADVANCED ACTING  (variable)
Independent Study in Theatre History and Literature. Prerequisite: Permission of instructor.  Instructor: Ramont.

Tibetan (TIBT)

The School of Humanities/Center for the Study of Languages

TIBT 132(S)  CLASSICAL AND COLLOQUIAL TIBETAN  (3-0-3)
Readings in Tibetan Bön and Buddhist religious texts. Also offered as RELI 132. Not offered 2001–2002.  Instructor: Staff

TIBT 532(S)  CLASSICAL AND COLLOQUIAL TIBETAN  (4-0-4)
Graduate version of TIBT 132. Prerequisite: TIBT 132 or RELI 132. Also offered as RELI 532. Not offered 2001–2002.  Instructor: Staff

University Courses (UNIV)

UNIV 111(F)  THE SUSTAINABLE ENVIRONMENT: A FIRST-YEAR SEMINAR  (3-0-3)
Open only to freshmen. Limit 15.  Instructors: Isle, Sass

UNIV 112(F)  WORD AND IMAGE: SLOWING DOWN AND LOOKING CLOSELY: A FIRST-YEAR SEMINAR  (3-0-3)
Open only to freshmen. Limit 15.  Instructors: Snow, Grenader

UNIV 113(S)  TECHNOLOGICAL DISASTERS AND CATASTROPHES: A FIRST-YEAR SEMINAR  (3-0-3)
Open only to freshmen. Limit 15.  Instructors: Curl, Brito

UNIV 114(F)  WAYS THE WORLD IS WEIRD: PHILOSOPHICAL LESSONS OF MODERN PHYSICS: A FIRST-YEAR SEMINAR  (3-0-3)
Open only to freshmen. Limit 15.  Instructor: Jeffries
UNIV 115(F) THE SACRED IN FRANCE: FROM THE RENAISSANCE TO THE PRESENT: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: Wood

UNIV 116(F) BIOMEDICAL MYSTERIES: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: Oliver

UNIV 117(S) THE EVOLUTION WARS: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: Oliver

UNIV 118(S) THE CLASSIC OF CHANGES (I-CHING) IN ASIAN AND WORLD CULTURE: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: R. Smith

UNIV 119(S) ADVANCES IN BIOTECHNOLOGY: SCIENCE FACT AND FICTION: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: West

UNIV 120(S) THE PHYSICS AND THE METAPHYSICS OF TIME TRAVEL: A FIRST-YEAR SEMINAR (3-0-3)
Open only to freshmen. Limit 15. Instructor: Jeffries

UNIV 121(F) THE IDEA OF THE MODERN (3-0-3)
Open only to freshmen. Limit 15. Instructor: Grob

UNIV 200/300(S) INTRODUCTION TO THE ENVIRONMENT (3-0-3)
This course is intended as an introduction to environmental studies for students from all divisions of the campus. The course focuses on attitudes and values relating to the environment as represented in environmental history and environmental literature. Instructor: Isle

UNIV 303(S) ENVIRONMENTAL ISSUES: RICE INTO THE FUTURE (3-0-3)
This course addresses science, technology, and policy elements of environmental issues. Students use the campus and local community as a laboratory in which to do projects to reduce environmental impacts, enhance sustainability, or resolve environmental problems. Instructors: Harcombe, Ostdiek

UNIV 309 CREATING AND MANAGING CHANGE: PRINCIPLES OF LEADERSHIP (3-0-3)
A major focus of this class is how to build a powerful and effective team. All students take on a team project, and there is a two hour weekly group meeting in addition to class time. The class also includes the “Power of …” lectures given by outstanding faculty members and community leaders who present leadership issues in the context of their own disciplines. Last year’s lectures included the power of data, art, biology, religion and negotiation. The Leadership Rice website provides additional details. Instructor: Lieberman

UNIV 310 CREATING AND MANAGING CHANGE: FROM THEORY TO ACTION (3-0-3)
This course is required for and limited to students accepted in the Leadership Rice program who have participated in the Summer Mentorship Experience. It includes work on a strategic vision paper and introduces students to various change strategies. It also includes a writing component. In addition, students visit with Leadership Rice mentors during the class and are exposed to issues and challenges in diverse sectors of the community. A special section of UNIV 310 will focus on entrepreneurial strategies. Instructor: Lieberman

UNIV 311 CREATIVITY (1-0-1)
This is a small seminar for 12 students to explore how individual and group creativity can be nurtured and what conditions foster and stimulate individual creativity. Instructor: Lieberman

(F) = fall; (S) = spring
UNIV 321(F)  CROSS-CULTURAL AWARENESS: CULTURES OF THE UNITED STATES (2-0-1)
A team-taught course that addresses our cultural constructiveness by exploring the diversity of American cultures and by seeking ways of investigating culture as an influence on behavior. Emphasis on experiential learning. Instructor: Staff

UNIV 322(S)  CROSS-CULTURAL AWARENESS: CULTURES OF THE WORLD (2-0-1)
A team-taught course that addresses important issues in understanding the differences among other cultures and that looks at the most fundamental elements of cultural identity. Examples taken from a variety of non-U.S. cultures. Emphasis on experiential learning. Instructor: Staff

UNIV 323  CROSS-CULTURAL AWARENESS: RICE INTERNATIONAL (2-0-1)
A team-taught course that addresses the kind of comparisons and contrasts that living abroad inevitably generates—especially intended both for students who have spent substantive time outside the U.S. and for international students. We want to initiate an internationally based seminar that helps participants analyze and understand the personal and intellectual development that results when their original culturally-acquired assumptions are challenged by the experience of living in a new culture. Classroom exchanges will be enhanced by projects focusing on experiential learning that will benefit the individual students as well as the Rice student community at large. Instructor: Staff

The Program for the Study of Women and Gender (WGST)

WGST 101(F)  INTRODUCTION TO THE STUDY OF WOMEN AND GENDER (3-0-3)
An introductory survey of issues in the study of women, including women’s social, political, and legal status in the United States and around the world; feminist perspectives on sexuality, gender, family, and reproduction; and the implications of these perspectives for social and critical theory. Instructor: Huffer

WGST 201(S)  INTRODUCTION TO LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3-0-3)
This course is an introduction to the interdisciplinary examination of sexual desires, sexual orientations, and the concept of sexuality generally, with a particular focus on the construction of lesbian, gay, bisexual, and transgender identities. The course will look specifically at how these identities interact with other human phenomena such as government, family, popular culture, scientific inquiry, and especially gender. In exploring sexual diversity, we will highlight the complexity and variability of sexualities both across different historical periods, and in relation to identities of race, class, ethnicity, and nation. Not offered 2001–2002. Instructor: Huffer

WGST 214(F)  INTRODUCTION TO WOMEN’S HISTORY (3-0-3)
Exploration of the idea of women’s history (is it the same as the history of women by examining the approaches and types of evidence that are used by scholars in the field. Includes the relationship of women’s history to related fields such as feminist theory, gender studies, and the history of sexuality. Offered with additional work as WGST 314. Also offered as HIST 244 and with additional work as HIST 344. Not offered 2001–2002. Instructor: Quillen

WGST 220(S)  GENDERED PERSPECTIVES ON THE LAW (3-0-3)
This course explores the ways in which law genders and is gendered. Using academic texts, popular media, and legal cases, this course provides an introduction to feminist legal theory, critical race feminism, and feminist sociological studies. Looking at law from both local and global perspectives, we critically engage what sociological scholars have called “the common place of law” and its relation to larger structural forces. While we focus on law in the United States, we also examine gendered perspectives on the law in international and transnational contexts. Instructor: Hamilton

(0-0-0) = class hours/week - lab hours/week - credit hours/semester
WGST 225(S) WOMEN IN GREECE AND ROME (3-0-3)
Survey of the depiction of women in Greek and Roman mythology, literature, and art. Includes a study of the lives of Greek and Roman women as evidenced by archaeological as well as literary materials. Also offered as CLAS 225. Instructor: Wallace

WGST 232(F) ENGENDERING AMERICAN DEMOCRACY: THE HISTORY OF THE RIGHT TO VOTE (3-0-3)
This course traces the complicated history of American voting rights from the Colonial period through the present and focuses our attention on changing ideas about democracy, sovereignty, and consent. Centering our attention on a series of expansions and contradictions in the American electorate, we will assess the importance of class, gender, and race to the cultural, political, and legal history of enfranchisement. Also offered as HIST 332. Enrollment is limited to 25. Prerequisite: permission of instructor. Instructor: Sneider

WGST 233 (F) THE FEMALE BODY IN CONTEMPORARY CULTURE (3-0-3)

WGST 234(F) HISTORY OF AMERICAN WOMEN I: COLONIAL BEGINNINGS TO THE CIVIL WAR (3-0-3)
Beginning with an examination of the similarities and differences in the lives of women across the colonies, this course will trace changes in the dominant cultural definitions of womanhood and women’s roles from the mid-17th century through the antebellum period. This survey highlights the importance of defining women’s “place” to the men and women who built America. Offered with additional work as WGST 381. Also offered as HIST 241 and with additional work as HIST 391. Instructor: Sneider

WGST 235(S) HISTORY OF AMERICAN WOMEN II: CIVIL WAR TO THE PRESENT (3-0-3)
Continuation of WGST 234. This course traces the rise of women’s voluntary associations of the antebellum period through the highly organized national and international organizations of the late 19th and early 20th centuries to post-suffrage women’s participation in movements for social change across the 20th century. Emphasis on the shifting boundary between private and public in American women’s lives. Offered with additional work as WGST 382. Also offered as HIST 242 and with additional work as HIST 392. Instructor: Sneider

WGST 237(S) GENDER AND POLITICS IN EUROPEAN HISTORY (3-0-3)
This lecture and discussion class explores relationships between ideas about sex difference and the political sphere through the study of key moments in the history of Western philosophy, literature, political theory, and colonialism from Periclean Athens to the contemporary U.S. Also offered as HIST 237. Instructor: Quillen

WGST 283(F) WOMEN IN THE ISLAMIC WORLD (3-0-3)
This course introduces students to the history of women in the Islamic world. Topics include women and law, family relations, work, women as political actors in Islamic history, the harem as a social and political institution, women as property owners, veiling, and modern feminist movements throughout the Islamic world. Also offered as HIST 283. Instructor: Sanders

WGST 299 WOMEN IN CHINESE LITERATURE (3-0-3)
A historical and critical survey of women’s roles in classical Chinese literature (poetry, prose, fiction and drama) as writers, reader critics, and protagonists. Topics will include China’s patriarchal tradition and women’s response, enculturing the female body and feminizing male poetics, poems by women and poems in women’s voice, women as domestic aliens and aliens portrayed as women, interplay of popular culture and elite culture, etc. Readings in English translation. No previous knowledge of Chinese language or literature required. Also offered as ASIA 299 and CHIN 299. Not offered 2001–2002. Instructor: Qian

(F) = fall; (S) =
WGST 300(F)  MEDIEVAL LITERATURE: MEDIEVAL WOMEN WRITERS (3-0-3)
A survey of major continental European women writers and their works, in translation and in Middle English, from the 5th to the 15th centuries, with attention to feminist, gender, and reader-response theory. Among the mystics, philosophers, scientists, and court-poets will be Hrotsvit of Gandersheim, Heloise, Hildegard of Bingen, Marie de France, Margery Kempe and Julian of Norwich, and Christine de Pizan. Refer to course web site at http://www.ruf.rice.edu/~jchance/mewom.htm. Also offered as ENGL 311 and MDST 311. Instructor: Chance

WGST 301  ARTHURIAN LITERATURE (3-0-3)
A survey of the origins and development of the Arthurian legend from the earliest chronicles in the sixth century and later medieval French, Welsh, Irish, and English Arthurian poems to modern adaptations of Arthurian material, including films. Also offered as ENGL 317 and MDST 317. Refer to course web site at http://www.ruf.rice.edu/~jchance/arthurian2.html. Not offered 2001–2002. Instructor: Chance

WGST 305(F)  CHAUCER AND THE SUBVERSIVE OTHER: WOMEN, GENDER, NATION, CLASS (3-0-3)
A fourteenth-century poet who worked for the king as controller of customs and works, Chaucer nevertheless embedded in his poems with sympathetic treatments of women, the commons, homosociality, and otherness as expressed through multicultural indicators expressive of nation and religion. This seminar will explore exemplary treatments of alterity and difference in Chaucer and the complex poetic strategies he chose to conceal his sympathies. Refer to course web site at http://www.ruf.rice.edu/~jchance/ch.html. Also offered as ENGL 516 and MDST 416. Not offered 2001–2002. Instructor: Chance

WGST 310  PROBLEMS IN LITERARY HISTORY (3-0-3)
The topics vary from year to year. Past topics include “Lacan: Feminist Psychoanalysis.” Also offered as ENGL 500. Different topics may be repeated for credit. Not offered 2001–2002. Instructor: Staff

WGST 311(F)  SOCIETY AND THE SEXES IN MODERN FRANCE (3-0-3)
Examination of gender roles, gender ideology, and sexual practices in the construction of French society and culture from the Enlightenment to World War II. Includes sexual politics and emergent “public sphere” in the 18th century, masculine and feminine images of the state during the French Revolution, feminist discourses and politics in 1789, 1848, and during the campaign for women’s suffrage, and family structures, patriarchy, and notions of property. Taught in English. Some reading may be done in French. Also offered as HIST 360 and FREN 360. Not offered 2001–2002. Instructor: Sherman

WGST 312  SURVEY OF OLD ENGLISH LITERATURE: GENDER AND POWER IN OLD ENGLISH LITERATURE (3-0-3)
Readings of poems and prose about Old English women, in translation, including “The Wife’s Lament,” “Wulf and Eadwacer,” “Beowulf,” “Juliana,” “Elena,” “Judith,” “Genesis B,” the Advent Lyrics on the Virgin, and materials from chronicle, myth, and legend (for example, on the Amazons, Circe, and Eurydice). (PLEASE NOTE: May be offered in future semester as a course in “Old English Literature” taught by Douglas Mitchell. In that particular instance, it is NOT offered as WGST 312.) Also offered as ENGL 312 and MDST 312. Not offered 2001–2002. Instructor: Chance

WGST 314(F)  INTRODUCTION TO WOMEN’S HISTORY (3-0-3)
Enriched version of WGST 214. May not receive credit for both WGST 214 and 314. Also offered as HIST 344. Not offered 2001–2002. Instructor: Quillen

WGST 324(F)  SOCIOLOGY OF GENDER (3-0-3)
Exploration of the relationship between gender and social role. Includes development of the contemporary sexual division of labor and the process of socialization with reference to family, education, media, and occupations. Limited enrollment. Also offered as SOCI 306. Instructor: Long
WGST 327(S)  20TH-CENTURY WOMEN WRITERS: SEX, GENDER, AND MODERNISM (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 380.  Instructor: Lamos

WGST 328(F)  LATIN AMERICAN GENDERS (3-0-3)
Although Latin America is a collection of extraordinarily diverse cultures, ranging from modern urban societies to Indian peasant villages, many people assume the region shares a simple and easily identifiable set of gender relations. Male dominance is supposedly demonstrated by the wide embrace of machismo. A close historical examination of Latin America, however, reveals a far more complicated and nuanced set of relations between the sexes. Also offered as HIST 328. Not offered 2001–2002.  Instructor: Wolfe

WGST 329(F)  LITERATURE OF THE AMERICAN WEST: WOMEN IN THE WEST (3-0-3)
Survey of literature on the American West, emphasizing the contemporary period. Also offered as ENGL 369.  Instructor: Comer

WGST 331(S)  THE PSYCHOLOGY OF GENDER
Overview of research and theory on gender in psychology. The myths and stereotypes associated with women and men in society—the social, biological, and psychological gender differences identified in research. Offered every other year. Also offered as PSYC 331.  Instructor: Hebl

WGST 332(F)  SELF, SEX, AND SOCIETY IN ANCIENT GREECE (3-0-3)
An introductory venture into conducting fieldwork in the past. The course treats a wide range of artifacts, from philosophical essays to vase paintings. It derives its focus from a rich corpus of recent research into the ancient problematization of desire and self-control. Also offered as ANTH 325. Not offered 2001–2002.  Instructor: Faubion

WGST 333(S)  MASCULINITIES (3-0-3)
This course deals with masculinities in the West, concentrating on concepts of masculine protagonism and personhood. Readings explore identities constructed in realms such as law, politics, finances, art, the home, and war. Also offered as ANTH 311. Not offered 2001–2002.  Instructor: Taylor

WGST 335(S)  THE LIFECYCLE: A BIOCULTURAL VIEW (3-0-3)
The human life cycle from conception to death. Focus is on the interaction between biological processes and culture. Also offered as ANTH 388. Not offered 2001–2002.  Instructor: Georges

WGST 336(S)  HISTORY AS A CULTURAL MYTH (3-0-3)
Ideas of history and attitudes toward the past as culturally conditioned phenomena. Emphasizes history as statement of cultural values as well as conceptualizations of cause, change, time, and reality. Also offered as ANTH 308. Not offered 2001–2002.  Instructor: Georges

WGST 337  FEMINIST ISSUES: WITCHES, SAINTS, SOLDIERS AND SHREWS: WOMEN’S VOICES IN THE RENAISSANCE (3-0-3)
Also offered as ENGL 383. Not offered 2001–2002.  Instructor: Staff

WGST 338(S)  GENDER AND SOCIETY IN EARLY MODERN EUROPE (3-0-3)
 Exploration of the relationship between ideas about gender and the social, political, and legal institutions in Europe from c. 1350 to 1800. Includes the structure and role of the family, gender roles in religious institutions, and the regulation of sexuality. Also offered as HIST 363. Not offered 2001–2002.  Instructor: Quillen

WGST 341(F)  GENDER AND POLITICS (3-0-3)
Examination of politics through the lens of gender hierarchy. Emphasis on how the constructions of masculinity and femininity shape and are shaped by interacting economic, political, and ideological practices. Enrollment limited to 30. Also offered as POLI 341.  Instructor: Branton

(F) = fall; (S) = spring
WGST 349(F) SURVEY OF BRITISH WOMEN WRITERS FROM 1400-1900 (3-0-3)

WGST 350(F) GENDER AND SYMBOLISM (3-0-3)
Examinations of beliefs concerning men, women, and gender in different cultures, including the West, relating to issues of symbolism, power, and the distribution of cultural models. Also offered as ANTH 327. Not offered 2001–2002. Instructor: Taylor

WGST 352 FEMINISM AND NATIONALISM (3-0-3)
Offered with additional work as WGST 491. Also offered as ENGL 381 and with additional work as ENGL 581. Not offered 2001–2002. Instructor: Joseph

WGST 354 SURVEY: CHICANO/A POETRY (3-0-3)
Also offered as ENGL 373. Not offered 2001–2002. Instructor: Staff

WGST 357(F) BUDDHISM AND THE FEMALE (3-0-3)
Exploration of questions of identity, relationship, and personal change through an examination of Buddhist thought and female symbolism in light of current work on or by women. Also offered as RELI 325. Not offered 2001–2002. Instructor: Klein

WGST 358 WOMEN FILMMAKERS: A 20TH-CENTURY RETROSPECTIVE (3-0-3)
The course will concentrate on films by European and American women directors, taking into account historical pioneering, cultural identities, aesthetic particularities, gender commitment, subject orientations, and post-feminist attempts. Importance will also be given to the contexts and conditions of women’s film production. Class discussion will be in English and all films viewed will be in English or with English subtitles. Berman majors are expected to concentrate on a final paper on women directors in German Cinema. Also offered as GMAN 402. Not offered 2001–2002. Instructor: Eifler

WGST 360(F) TOPICS IN POLITICAL CINEMA (3-0-3)
This course explores cinema as a source for political analysis and as a vehicle for political representation. Topics will change periodically. Sample topics are Native American media and transformation of Easter Europe in cinema. Also offered as ANTH 342. Not offered 2001–2002. Instructor: Staff

WGST 361(F) NEW GERMAN CINEMA (3-0-3)
From the 1960s to 2000, Germany has developed a very distinct auteur cinema with independent filmmakers such as Fassbinder, Herzog, Wenders, Adlon, Trotta Sander, Brueckner, Doerrie, Garnier, Twyker, and others. The first twenty years of German film were oriented on coming to terms with the fascist past; the second twenty years focused on more contemporary issues. Film critical readins and class discussions in English. All films are subtitled in English and will be assessed with podium technology. Also offered as GERM 378 and HUMA 373. Not offered 2001–2002. Instructor: Eifler

WGST 362(S) WOMEN AND VISUAL CULTURE IN ISLAMIC SOCIETIES (3-0-3)
This course places women at the center of explorations of visual culture in Islamic societies. In-depth analyses of selected works of art and architecture from various historical contexts highlight various issues, including women as patrons of art and women as objects of representation. Theoretical debates on women and gender in art history are introduced. Also offered as HART 328. Not offered 2001–2002.

WGST 367(S) AMERICAN ECOFEMINISM (3-0-3)
Past topics include “Intersections Between Feminism and Environmentalism.” Interdisciplinary materials include literature, social movement theory, film, and environmental and social history. Also listed as ENGL 367. Not offered 2001–2002. Instructor: Comer

(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
WGST 368(F) MYTHOLOGIES (3-0-3)
This interdisciplinary course will introduce students to a variety of world mythologies and myth-makers, from the beginnings to the modern period. Designed to explore the relationship between a culture and its myths as expressed in specific literary or religious works, “Mythologies” offers a means of understanding cultural difference as well as the fundamental topics of human desire and aspiration (creation and birth, the purpose of life, heroic struggle against nature and death, the hope for rebirth, etc.). Included mythologies: Babylonian, Sumerian, Hindu, Egyptian, Greek, Roman, Irish, Welsh, Old Norse, Anglo-Saxon, Finnish, Mayan, Hopi, modern (Borges, Philip Glass). Also offered as ENGL 368 and MDST 368. Refer to course web site at http://www.ruf.rice.edu/~jchance/myth.htm. Instructor: Chance

WGST 372(F) SURVEY OF VICTORIAN FICTION (3-0-3)
The novel from Austen to Hardy. Also offered as ENGL 342. Instructor: Michie

WGST 381(F) HISTORY OF AMERICAN WOMEN I: COLONIAL BEGINNINGS TO THE CIVIL WAR (3-0-3)
Enriched version of WGST 234. Students may not receive credit for both WGST 234 and WGST 381. Also offered as HIST 391. Instructor: Sneider.

WGST 382(S) HISTORY OF AMERICAN WOMEN II: CIVIL WAR TO THE PRESENT (3-0-3)
Enriched version of WGST 235. Students may not receive credit for both WGST 235 and WGST 382. Also offered as HIST 392. Instructor: Sneider

WGST 388(S) GENERATION X IN LITERATURE AND CULTURE (3-0-3)
An interdisciplinary survey of “Generation X” literature, music, film, and politics. Also offered as ENGL 388. Instructor: Comer

WGST 389 FEMININE AND MASCULINE IDENTITY (3-0-3)

WGST 391(S) HISPANIC WOMEN WRITERS (3-0-3)
Exploration of the ways in which women writers in the 8th through the 17th centuries have developed their literary works (prose, poetry, and drama). Emphasis is on historical, religious, and political contexts. Readings will include Hispanic and Latin American authors: Sor Teresa de Cartagena, Sor Isabel de Villena (15th century.), Santa Teresa de Jesús, Beatriz Bernal (16th century), María de Zayaz, and Sor Juana Inés de la Cruz (17th century), among others. Taught in Spanish. Also offered as SPAN 391. Refer to course web site at http://www.ruf.rice.edu/~merida/wgst_391.htm. Instructor: Mérida-Jiménez

WGST 399(F) WOMEN IN CHINESE LITERATURE (3-0-3)
Enriched version of WGST 299. Also offered as ASIA 399. Not offered in 2001–2002. Instructor: Qian

WGST 400(F) CONSTRUCTING IDENTITIES IN MODERN FICTION (3-0-3)
This course will explore the construction of racial, sexual, gendered, and ethnic identities in modern fiction, with a particular concern for the connections among identity, literary form, and social categories of meaning. Readings include Woolf, Colette, Duras, Carter, Djebar, Morrison, Winterson, Baraoui, and others. Not offered 2001–2002. Instructor: Huffer

WGST 402 FEMINIST ISSUES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Past topics include “Gender and Immigration.” Also offered as ENGL 480. Not offered 2001–2002. Instructor: Staff

(F) = fall; (S) =
WGST 405  AUSTEN ONLY (3-0-3)
Also offered as ENGL 441. Not offered 2001–2002. Instructor: Michie

WGST 406  CHRISTINE DE PIZAN IN THE 15TH-CENTURY (3-0-3)
The Franco-Italian woman poet Christine de Pizan was translated into English during the fifteenth century along with other poems dealing with the subject of female experience and the female hero, such as Jean d’Arras’s “Melusene” and Boccaccio’s “Concerning Famous Women.” This seminar will examine these and other English poems about women as early as Chaucer’s “Legend of Good Women” and as late as the “Assembly of Ladies,” “Floure and the Leafe,” “The Assembly of Gods,” and Thomas Hoccleve’s “Letter of Cupid.” Also offered as ENGL 515. Refer to course web site at http://www.ruf.rice.edu/~jchance/christin.html. Not offered 2001–2002. Instructor: Chance

WGST 407  INTRODUCTION TO FEMINIST LITERARY THEORY AND CRITICISM (3-0-3)
This course begins with an overview of themes and practices in feminist literary theory and criticism from the 1970s to the present. Then we will turn our attention to recent work that engages the pressing concerns of feminist theory in the 1990s, work that investigates the shape of gendered subordination and strategies for feminist agency in the contexts both of cultural diversity and of particular women’s negotiation of race, class, sexuality, and national identifications (among others). Also offered as ENGL 481. Not offered 2001–2002. Instructor: Staff

WGST 408  SPECIAL TOPICS (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Past topics include “Masculinity and Literature on American Culture.” Also offered as ENGL 497. Not offered 2001–2002. Instructor: Derrick

WGST 409  MAGNIFICENT LADIES (3-0-3)

WGST 410  THE LITERARY AND HISTORICAL IMAGE OF THE MEDIEVAL WOMAN (3-0-3)
Undergraduate version of WGST 450. Also offered as FREN 410. Prerequisites: FREN 301 and 311. Not offered 2001–2002. Instructor: Nelson

WGST 411  WONDROUS WOMEN (3-0-3)
A survey of key texts in women’s literature from the late Middle Ages to the Restoration period. Readings include works by Christine de Pizan, Margery Kempe, Julian of Norwich, and others. Also offered as ENGL 495. Prerequisites: ENGL 311, 399. Not offered 2001–2002. Instructor: Staff

WGST 412(F)  WOMEN AND WOMEN’S VOICES IN FRENCH LITERATURE (3-0-3)
Examination of ways that women have been represented in fiction—by themselves and by others—since the early modern period. Readings from Mme. de Lafayette, Sade, Baudelaire, Villiers de L’Isle-Adam, de Beauvoir, Duras, and Wittig, with emphasis on the constitution of “the feminine” in literary texts as a cultural, historical, and social artifact. Also offered as FREN 460. Prerequisites: FREN 301, 311, 372, or 387. Not offered 2001–2002. Instructor: Harter

WGST 413  MEDIEVAL WOMEN WRITERS (3-0-3)
A survey or major continental European writers and their works, in translation and in Middle English, from the fifth to the fifteenth centuries, with attention to feminist, gender, and reader-response theory. Among the mystics, philosophers, scientists, and court-poets will be Hrotsvit of Gandersheim, Heloise, Hildegard of Bingen, Marie de France, Margery Kempe, Julian of Norwich, and Christine de Pizan. Refer to course web site at http://www.ruf.rice.edu/~jchance/medwom.html. Also offered as ENGL 517. Not offered 2001–2002. Instructor: Harter

WGST 414  MEDIEVAL AND RENAISSANCE WOMEN (3-0-3)
Introduction to current debates about women’s history, the history of feminism, and gender history in 19th-century Europe. Includes public and private rights, republicanism and feminism, gender and difference, socialism, identity and cultural modernism, and gender and social reform. Also offered as HIST 549. Not offered 2001–2002. Instructor: Caldwell

WGST 415(S)  SOCIOLINGUISTICS (3-0-3)
Topic: Issues of language and gender, race and class. The course will begin with an overview of contemporary sociolinguistic theory and methodologies. We will then examine the linguistic consequences to speakers of their membership in groups, defined in terms of gender, race, and class. Also offered as LING 415. Not offered 2001–2002. Instructor: Niedzielski

WGST 420(F)  WOMEN AND GENDER IN 19TH-CENTURY EUROPE (4-0-4)
Introduction to current debates about women’s history, the history of feminism, and gender history in 19th-century Europe. Includes public and private rights, republicanism and feminism, gender and difference, socialism, identity and cultural modernism, and gender and social reform. Also offered as HIST 549. Not offered 2001–2002. Instructor: Caldwell

WGST 421  SHAKESPEARE AND DIFFERENCE (3-0-3)
Also offered as ENGL 520. Not offered 2001–2002. Instructor: Staff
(0-0-0) = class hours/week - lab hours/week - credit hours/semes-
WGST 426(S)  WOMEN AND GENDER IN MEDIEVAL IBERIA (3-0-3)
Comparative introduction and analysis of the different cultures of the Iberian middle Ages and the role of gender in literary genres. Exploration of the ways in which women have been represented in the 11th through the 15th centuries. Some of the main topics will be (homo)eroticism, motherhood, and prostitution. Taught in Spanish. Also offered as SPAN 426. Refer to course web site at http://www.ruf.rice.edu/~merida/wgst_426.htm. Not offered 2001–2002. Instructor: Mérida-Jiménez

WGST 430(S)  STUDIES IN LITERARY THEORY: QUEER THEORY (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 499. Instructor: Lamos

WGST 434  FRENCH FEMINIST THEORY (3-0-3)
Examination of the important problems of contemporary feminist theories in French, with a particular focus on the interrelated issues of gender, sexuality, race, ethics, language, and power. Readings include Beauvoir, Irigaray, Djebar, and Brossard. Also offered as FREN 434. Not offered 2001–2002. Instructor: Huffer

WGST 440(F)  WOMEN IN MUSIC
Study of gender in music, including aesthetics and representation, and of the major roles women have assumed in music, especially as composers, performers, and patrons. While the course emphasizes the Western art tradition, other types of music are explored as well. Not offered every year. Also offered as MUSI 526. Instructor: Citron

WGST 441(F)  HILDEGARD OF BINGEN
The course examines the life and works of 12th-century polymath Hildegard of Bingen, including her achievements in music, poetry, religious thought, medicine, natural science, and linguistics. Also offered as MUSI 724 and MDST 441. Not offered 2001–2002. Instructor: Meconi

WGST 442(F)  WOMEN IN RUSSIAN LITERATURE (3-0-3)
The portrayal of women in major works of Russian literature, with particular attention paid to the own writers’ presentation of women. No knowledge of Russian required. Also offered as RUSS 420. Not offered 2001–2002. Instructor: Thompson

WGST 443(S)  VICTORIAN STUDIES: REPRESENTING SEXUALITY IN VICTORIAN CULTURE: PROSE, POETRY, ART, DRAMA, AND ADVERTISING (3-0-3)
Sexuality, broadly defined, was central to Victorian literature and visual culture. This course will investigate various representations of erotic experience, and various ways of understanding, constraining, or evoking desire. Texts will include the following: selections from Idylls of the King (Tennyson), Modern Love (George Meredith), Aurora Leigh (Elizabeth Barrett Browning), poems by Matthew Arnold and Christina Rossetti, Man and Superman (George Bernard Shaw), The Portrait of Dorian Grey (Oscar Wilde); readings in Darwin, sexology texts, and conduct books, and in the memoirs of Ellen Terry. We will also look at paintings of Dante Gabriel Rossetti, the nude in graphic and plastic art, and female images in advertising. Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 442. Instructor: Logan

WGST 450  THE LITERARY AND HISTORICAL IMAGE OF THE MEDIEVAL WOMAN (3-0-3)
Comparison and contrast of the presentation of the medieval woman in literature with extant evidence of historical women from contemporary documents and records. Also offered as FREN 510. Not offered 2001–2002. Instructor: Nelson

(F) = fall; (S) =
WGST 451(S)  WOMEN, POLITICS, AND POLITICAL HISTORY (3-0-3)
Although women were not given the vote until the ratification of the Nineteenth Amendment in 1920, women have a long history of involvement with politics, partisanship, and parties. Since the nation’s founding women have petitioned legislatures, lobbied government officials, campaigned for Democratic and Republican candidates, formed women’s auxiliaries to the regular parties, and voted in municipal and school elections. In the post-suffrage decades women pioneered the single-issue, non-partisan approach to political reform and challenged the centrality of parties to American political life even as they rose to positions of prominence with those same parties. This course introduces students to a growing body of literature on women and politics that is changing our understanding of American political life. Also offered as HIST 551. Instructor: Sneider.

WGST 453(F)  TOPICS IN AFRICAN-AMERICAN LITERATURE (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Past topics include “Black Women in Culture and Society.” Also offered as ENGL 470. Instructor: Fultz

WGST 454  GERMAN WOMEN AUTHORS (3-0-3)
Critical analysis of literature and films by German-speaking feminists in theoretical and sociopolitical contexts. Includes writers such as Bachmann, Wolf, Morgner, Maron, and Jelinek as well as filmmakers such as Sander, Brueckner, Export, and Treut. Course may be repeated for credit. Also offered as GERM 454. Not offered 2001–2002. Instructor: Eifler

WGST 455(F)  WOMEN AND GENDER IN ISLAMIC SOCIETIES (3-0-3)
Examination of some features of the legal position and social realities of men and women the Islamic world, with emphasis on how boundaries of gender have traditionally been drawn. Includes family and sexual ethics, the harem, polygamy, divorce, and eunuchs (who played an important role both in the military and in certain religious institutions). Also offered as HIST 438. Not offered 2001–2002. Instructor: Sanders

WGST 456  DEVELOPMENTS IN FRENCH FEMINIST THEORY (3-0-3)
Study of recent French feminist theory, with emphasis on mapping out this critical perspective in both its ideological and its interpretive implications. Also offered as FREN 561. Not offered 2001–2002. Instructors: Alcover, Harter, Wood

WGST 458(F)  BUDDHIST MEDITATION THEORY: WOMEN AND MEN (3-0-3)
Study of the meditation practices of India and Tibet. Includes associated theories, visual symbols, literary genres, and cultural assumptions, seen in light of current Euro-American feminist work on religion and in a cross-cultural comparative framework. May work in Tibetan language for extra credit. Prerequisite: permission of instructor. Also offered as RELI 471. Not offered 2001–2002. Instructor: Klein

WGST 460(S)  FEMINIST SOCIAL THOUGHT (3-0-3)
Study of feminist theory as critique and reconstruction. Includes Wollstonecraft and de Beauvoir, as well as contemporary debates about equity, difference, knowledge, sexuality, and power. Limited enrollment. Also offered as SOCI 395. Instructor: Long

WGST 461(S)  GENDER, WAR, AND REPRESENTATION IN MODERN ENGLAND AND FRANCE (3-0-3)
This course explores the rhetoric of war as a central component in construction of modern gender roles. Topics will include representations of the body, constructions of history, the places of memory and forgetting, and connections between high and popular culture. We will be looking at films, memoirs, poetry, tourist literature, painting, and sculpture, as well as novels. The course begins in the 19th century but will focus on the two world wars. Also offered as ENGL 479, FREN 469, and HIST 472. Not offered 2001–2002. Instructors: Sherman, Michie
WGST 468(S)  WOMEN AND THE WELFARE STATE: SEXUAL POLITICS AND AMERICAN POVERTY (3-0-3)
In contemporary America, women and children typically have been the major recipients of the federal and state aid that come under the heading of welfare. It is less well known that women have also been some of the major architects of the social programs that together constitute the American welfare system. This seminar will focus on women’s contributions to the growth of the welfare state and will investigate how it has been shaped by understandings of gender, race, and class. Also offered as HIST 468. Not offered 2001–2002. **Instructor: Sneider**

WGST 480(S)  FEMINIST LITERARY THEORY: FEMINIST FILM THEORY (3-0-3)
Also offered as ENGL 382. **Instructor: Lurie**

WGST 481(F)  LITERARY THEORY: WHAT’S LEFT OF LITERARY THEORY? (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Prerequisite: permission of instructor. Also offered as ENGL 599. **Instructor: Lamos**

WGST 482(F)  PROBLEMS IN CONTEMPORARY FEMINIST THEORY (3-0-3)
The purpose of this course is to gain a broad understanding of the important problems of contemporary feminist theory. We will focus on the interrelated issues of gender, sexuality, race, ethics, language, and power by exploring in depth primary texts in feminist theory. Prerequisite: WGST 101, 201, or permission of instructor. Not offered 2001–2002. **Instructor: Huffer**

WGST 483  FEMINIST ISSUES (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as ENGL 583. Not offered 2001–2002. **Instructor: Staff**

WGST 484  VICTORIAN FICTION (3-0-3)
Topics vary from year to year. Different topics may be repeated for credit. Also offered as WGST 484. Not offered in 2001–2002. **Instructor: Michie**

WGST 491(S)  FEMINISM AND NATIONALISM (3-0-3)
Enriched version of WGST 352. Also offered as ENGL 581. **Instructor: Joseph**

WGST 496  APPLIED WOMEN’S AND GENDER STUDIES (hours variable)
Internships will be arranged individually at the request of students; details must be approved by the director. Students will also be required to submit a paper of between 8-15 pages (depending on the amount of credit) that demonstrates their ability to apply critically their knowledge of women’s and gender studies. Prerequisite: permission of SWG Director required. **Instructor: Michie**

WGST 497  DIRECTED READING IN THE STUDY OF WOMEN AND GENDER (hours variable)
Directed reading under the supervision of a SWG faculty member with permission of instructor. May count only once toward major requirements. **Instructor: Staff**

WGST 498  INDEPENDENT STUDY
Open to SWG majors only. Prerequisite: permission of instructor. **Instructor: Staff**

WGST 499  RESEARCH IN THE STUDY OF WOMEN AND GENDER
Research seminar for SWG seniors to fulfill capstone requirement. Open to SWG majors only. **Instructor: Michie**

(F) = fall; (S) =