

HTH 357. Coping with Stress. 1 credit. *Offered fall.*

Identifying causes and personal symptoms associated with stress and individual methods of handling stress.

HTH 360. Contemporary Health Issues. 3 credits. *Offered fall and spring.*

This course will provide an overview of the leading health indicators and contemporary health issues based upon the Healthy People 2010 and 2020 initiatives from the US Department of Health and Human Services. Topics of discussion include current health, health care, and ethical issues such as community, consumer, and environmental health issues; focusing on the interaction between psychological, sociological, political, and environmental factors. *Prerequisites: HTH 230.*

HTH 368. International Health and Nutrition Studies. 3 credits.

This course involves participation with an interdisciplinary team which will travel outside of the United States to observe and experience the health care challenges in a developing nation.

HTH 370. Child and Adolescent Health. 3 credits. *Offered fall and spring.*

This course will discuss the CDC priority health risk categories and the Healthy People 2010 Objectives for the Nation as they relate to child and adolescent health. In addition, the CDC model for Coordinated School Health Programs will be explored to determine specific strategies for health improvement. *Prerequisite: HTH 230; restricted to PHETE or health sciences majors.*

HTH 371. Behavior and Health of Children and Adolescents. 3 credits.

Offered spring.

This course will review the current health status and health risk behaviors of children and adolescents. It will focus on epidemiological trends and behavioral and social etiological factors. In addition, this course will include an overview of the theoretical approaches to children and adolescent health behavior. Application of theory will be made to the development of strategies for health promotion and interventions to reduce specific health problems for children and adolescents that would be appropriate for teachers and schools. *Prerequisite: Admission to the PHETE program.*

HTH 372. Human Sexuality. 3 credits. *Offered fall and spring.*

An in-depth study of sexuality across the lifespan. Emphasis is placed on the development of sexuality with attention given to the psychological, physiological, ethical and socio-cultural implications. *Prerequisite: HTH 230.*

HTH 375. Pregnancy Control and Abortion. 1 credit.

An in-depth study of four areas concerning the following sexual aspects of living: contraception, abortion, sterilization and fertility-enhancing methods. The biochemical, physiological, legal, cultural and ethical aspects are considered.

HTH 378. The Use and Effects of Drugs. 3 credits. *Offered fall and spring.*

A study of the use and pharmacological properties of popular legal and illegal drugs and their effects on the health of individuals and society. *Prerequisite: HTH 230.*

HTH 389. Practicum in Health Education. 1-3 credits. *Offered fall and spring.*

Selected practicum experiences which provide students with supervised practicum experiences.

HTH 390. Selected Topics in Health Science. 1-3 credits. *Offered fall and spring.*

Study of selected topics in health science. Consult e-campus for specific topics. May be repeated for credit when course content changes.

HTH 402. Topics in Health Education I. 3 credits. *Offered every other spring.*

An overview of selected topics in health content required for students preparing to teach health in public schools. Selected topics will include addictions, alcohol, tobacco, drug use and abuse, safety, nutrition and weight management in children, immunity, and prevention and control of infectious and chronic diseases. Special emphasis will be on issues relevant to teaching these topics in schools. *Prerequisite: Admission to the PHETE program.*

HTH 403. Topics in Health Education II. 3 credits. *Offered every other spring.*

An overview of selected topics required for students preparing to teach health in public schools. Selected topics include consumer health, environmental health, mental-emotional health, personal health, aging, and death and dying. Special emphasis will be on issues relevant to teaching these topics in schools. *Prerequisite: Admission to the PHETE program.*

HTH 407. Health Education Facilitation/Synthesis. 2 credits. *Offered fall and spring.*

Students apply health knowledge by identifying needs, designing and facilitating programs in various settings on pertinent topics. These topics include sexual health, STD/HIV prevention, eating disorders, stress management, sexual assault and alcohol/drug abuse. Upon completion of all course requirements, students will be credentialed as a Certified Peer Educator (CPE). *Prerequisite: Permission of instructor.*

HTH 408. Health Research Methods. 3 credits. *Offered fall and spring.*

This course will present an overview of research methods within public health, emphasizing the steps involved in the research process. Methodological issues covered will include the ethics of health studies research, qualitative and quantitative research designs, operationalization of concepts, measurement of variables, and techniques of sampling, data collection, and analysis. *Prerequisites: HTH 230 and MATH 220.*

HTH 409. Therapeutic Interaction. 3 credits. *Offered fall.*

This course focuses on the fundamental aspects of the therapeutic process, small group dynamics and understanding professional relationships in occupational therapy practice. Students will investigate concepts, attitudes and behavioral strategies that will support effective professional communication. They will also investigate inter- and intra- personal strategies that facilitate collaborative relationships as an occupational therapist in health or human service provision. *Prerequisite: Admission into the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 424. Occupational Development Through the Lifespan. 3 credits. *Offered fall.*

The fundamental aspect of occupational development that occurs throughout life is examined. Interactions between the individual and the environment across the several domains of adaptation are explored. Acquisition of values, roles, habits, temporal adaptation and interests during each developmental stage are reviewed. *Prerequisites: Admission to occupational studies concentration and successful completion of all previous concentration course work.*

HTH 431. Human Occupation and the Foundations of the Profession. 3 credits. *Offered fall.*

The relationship between human behavior and occupation is examined. Issues important to occupational engagement are explored and linked to occupational science and the occupational therapy profession. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 435. Level I Fieldwork One. 1 credit. *Offered spring.*

The course offers an opportunity to develop clinical skills in health and human service programs serving pediatric and adolescent clients. This experience will link knowledge and skills developed in didactic course work with a clinical environment. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 439. Leadership. 3 credits. *Offered fall and spring.*

This course will introduce students to the concept of leadership, provide opportunities to develop leadership skills, relate leadership to ethics and personal values, and assist students in creating a bridge between leadership theory and practice.

HTH 441/KIN 407. Rehabilitative Biomechanics. 3 credits. *Offered fall and spring.*

This course is designed to introduce the student to a variety of biomechanical concepts and applications as related to the health professions. Specific attention will be given to the biomechanical aspects of the musculoskeletal system. *Prerequisite: BIO 290.*

HTH 442. Chronic Diseases. 3 credits. *Offered fall.*

This course examines the pathophysiological effects of chronic diseases on health and well being. Discussions include various strategies which improve the functional status and health of individuals at risk. *Prerequisite: HTH 308 or KIN 302 and KIN 302L.*

HTH 445. The Occupational Therapy Process. 3 credits. *Offered fall.*

The occupational therapy process is examined from assessing an occupational profile to focusing on engagement in occupation to achieve desired outcomes. Methods of assessment are studied as a defining step in the therapeutic process. Goal development, intervention strategies and documentation are also addressed. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 450. Epidemiology. 3 credits. *Offered fall and spring.*

A study of the causation and prevention of the major diseases that affect the quality of an individual's life. Practical skills utilized by practicing epidemiologists are emphasized. *Prerequisites: HTH 230 and senior health sciences major or permission of instructor.*

HTH 451. Health Behavior Change. 3 credits. *Offered fall and spring.*

Factors which influence health behavior and characteristics of these individuals and groups. Analysis of previous programs designed to change these behaviors and the formulation of new health modification programs included. *Prerequisites: HTH 230 and senior health sciences major or permission of instructor.*

HTH 453. Public Health Education Methods. 3 credits. *Offered spring.*

This course is designed for public health education students to develop competencies necessary for working in community and public health settings. Presentation skills, developing print, computer and Internet materials, facilitating groups and coalitions, and advocacy are some of the topics covered. *Prerequisites: HTH 230 and senior public health education concentration students or permission of instructor.*

HTH 454. Internships in Health Organizations. 3 credits. *Offered spring and summer.*

Full-time directed field experience in a health organization. Opportunity provided to work in an appropriate setting. Student furnishes off-campus living and traveling expenses. *Prerequisite: Permission of the instructor and a 2.5 grade point average.*

HTH 458. Health Program Planning and Evaluation. 3 credits. *Offered fall and spring.*

This lecture and laboratory course introduces students to principles and techniques employed to plan, implement and evaluate health promotion programs. Students will conduct a campus or community event and compile a formal report. *Prerequisites: HTH 230 and senior health sciences major or permission of instructor.*

HTH 460. Sensorimotor Foundations of Occupation. 3 credits. *Offered spring.*

The importance of sensory processing and motor response and the impact on behavior, movement and occupational engagement are examined. Normal and abnormal sensorimotor function is presented with specific emphasis on how dysfunction impacts upon performance in the domains of occupation. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 461. Therapeutic Media in Occupational Therapy. 2 credits. *Offered fall.*

This course examines the use of various forms of media used in occupational therapy practice. An understanding of the importance of media and its impact on the history and philosophical base of the profession will be addressed. The ability to grade and analyze activities relative to areas of occupation, performance skills, performance patterns, activity demands, context(s) and client factors is presented. A focus on developing the ability to adapt tasks for individuals who require a compensatory approach will be examined. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 470. Instructional Methods in Health Education. 4 credits.

Offered spring.

An overview and application of methods for teaching health in the schools. Students will develop skills in planning, instructional methods and classroom management. Micro-teaching experiences and a practicum in the schools are incorporated into this course to provide for the application and practice of material and skills learned. *Prerequisite: Admission into teacher education.*

HTH 471. Health Aspects of Gerontology. 3 credits. *Offered fall and spring.*

Promotion of health in the aged; physiological aspects of the aging process; community, state and federal health programs, and services for the aged.

HTH 472. Family Life Education for Teachers. 2 credits.

This course will present an overview of issues affecting the sexual health of children and youth. A variety of family life education curricula will be discussed, however, the approved Virginia Department of Education curriculum will be examined and students will be trained in implementing and evaluating its various modules.

HTH 478. Occupational Dysfunction-Cause & Impact. 3 credits. *Offered spring.*

Various illnesses, injuries and circumstances that can impede areas of occupation and performance skills are examined. The practice framework detailed in the domain of occupational therapy will be applied to all reviewed conditions. *Prerequisite: Admission to the occupational studies concentration.*

HTH 479. Foundations of Research in Occupational Therapy. 3 credits.

Offered spring.

This course will present an overview of the foundations of research application, interpretation and communication. A variety of research methods will be reviewed. Published research will be examined for relevance in clinical decision making. *Prerequisite: Admission to the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 480. Health Assessment Techniques. 3 credits. *Offered fall.*

Examination of health risk appraisals and metabolic assessments used to implement strategies for behavioral change and improved overall wellness. Other topics include programming and group dynamics used to promote healthy lifestyle behaviors.

HTH 482. Advanced Health Assessment Techniques. 3 credits. *Offered spring.*

Skill acquisition of current health assessment techniques. These assessments are used to determine risk factors which play a role in heart disease and selected chronic diseases and to evaluate current health status. *Prerequisite: HTH 480.*

HTH 485. Psychosocial Perspectives in Occupational Therapy

Practice. 3 credits. *Offered fall.*

This course will provide an overview of psychosocial conditions that impact client function in areas of occupation, performance skills and performance patterns. Occupational therapy assessment and intervention from an individual and group treatment standpoint will be examined as it contributes to the interdisciplinary process. A historical overview of occupational therapy in behavioral health service provision will be covered that will review traditional and contemporary treatment and provider settings. *Prerequisite: Admission into the Occupational Studies concentration and successful completion of all previous concentration course work, or permission of the program director.*

HTH 488 Substance Abuse Prevention Basics. 1 credit. *Offered spring.*

This course focuses on basic, cutting-edge substance abuse prevention theory, research and practice. It is designed for the substance abuse intervention minors who have completed the content courses and are preparing for entry-level practitioner positions in health education and/or substance abuse prevention/intervention. Instruction will bridge theory to practice by incorporating practicing professionals.

HTH 490. Special Studies in Health Education. 1-3 credits each

semester. Offered fall and spring.

Designed to give the superior student in health education an opportunity to complete independent study and/or research under faculty supervision. *Prerequisite: Permission of the department head.*

HTH 491. Occupational Therapy Tutorial I. 1 credit. *Offered fall.*

Tutorial I is a small group case-based discussion seminar, facilitated by a clinical tutor who is an occupational therapist. Students research and discuss clinical cases related to content that is integrated from all courses that semester in the occupational studies concentration. *Prerequisite: Admission into the occupational studies concentration and successful completion of all previous concentration course work.*

HTH 499A. Honors. 1 credit. *Offered spring.*

HTH 499B. Honors. 1-3 credits. *Offered fall.*

HTH 499C. Honors. 2 credits. *Offered spring.*

Health and Human Services

Institute for Innovation in Health and Human Services

HHS 220. Adult Health and Development Program. 3 credits. *Offered fall and spring.*

In this academic course and outreach program to adults age 55+ in the surrounding community, JMU students are trained to work 1:1 with the older adults, to apply aging and intergenerational theory, and to critically analyze the outcomes from their interactions.

HHS/HTH/NSG/SOWK 314. Rural Health: An Interdisciplinary Approach. 3 credits. *Offered May.*

Students study, observe and participate in interdisciplinary assessment, planning and delivery of community-based primary health care in partnership with residents and agencies of a host rural county. Learning activities will emphasize rural culture, rural health care and interdisciplinary practice.

HHS/NSG 315. Risk Management in the Health Care System. 2 credits. This course explores current factors having impact on the risk management of the American healthcare system. It explores the many dimensions of risk management and leadership roles, and the dissemination and utilization of risk research in hospitals.

HHS 320. Adult Health and Development Program –Leadership. 3 credits. *Offered fall and spring.*

Both an academic course and an outreach program to adults age 55+ in the surrounding community, this course offers JMU students who have previously participated in the program the opportunity to become Senior Staff who provide program leadership, oversight and implementation to the program. *Prerequisite: Permission of the instructor and completion of one semester of AHDP.*

HHS 391. Introduction to Informatics for Health Care Professionals. 1 credit.

A multidisciplinary introduction to informatics in health care focusing on technology, data, information and knowledge and their applications in health care. Emerging trends and issues are examined.

HHS 415. Ethical Decision-Making in Healthcare: An Interprofessional Approach. 1 credit. *Offered fall and spring.*

Health care ethics is a shared, relevant concern among health and human service disciplines and is an ideal vehicle for students from different fields to learn about one another's disciplines and to participate in inter-professional team analysis, discussion, and problem solving. We have designed an integrated cross-disciplinary learning experience for students interested in the complex, real-world dilemmas encountered in practice. The readings and activities will emphasize ethical, legal, moral and spiritual issues and principles for practice within the context of communicating in inter-professional teams.

HHS 440. International Health and Human Services in Malta. 4 credits. *Offered May.*

This May session, study abroad course examines health issues in Malta and provides a team oriented project experience. Project participation, tours and arranged meetings with local experts are used to illustrate health related problems that apply globally and which are compared and contrasted with those in the United States.

HHS 490. Special Topics in Health and Human Services. 0-4 credits. *Offered fall and spring.*

This course involves topics of special interest in the area of health and human services but is open to all students. The focus of specific courses is identified for specific offerings. Courses are offered based on faculty and student interests.

Health Services Administration

Department of Health Sciences

HSA 358. Health Administration. 3 credits. *Offered fall.*

This course provides an introduction to management functions, tasks and roles as they are carried out in health services organizations. Discussion of emerging issues affecting the management of health services organizations is provided. This course uses the case method of analysis to develop critical thinking skills. *Prerequisite: HTH 354 or permission of the instructor.*

HSA 360. Health Care Marketing. 3 credits. *Offered spring.*

This course introduces the role, functions and tasks of health care marketing. Attention is devoted to understanding basic marketing principles; using oral, written and visual electronic communications media; and developing marketing plans for health care organizations.

HSA 363. Health Economics. 3 credits. *Offered fall.*

This course explains how economic forces affect the health service sector and how economic tools can be used to assess and improve health industry performance. Efficiency and equity trade-offs are considered. *Prerequisite: ECON 201 or equivalent.*

HSA 365. Values in Health Care. 3 credits. *Offered fall and spring.*

This course provides an overview of health ethics and health law for students majoring in health sciences. Students will address the major principles facing a health service professional in the delivery of health services. Particular attention will be paid to development of methodologies for ethical decision-making. *Prerequisite: HTH 354 or permission of instructor.*

HSA 366. Health Politics and Policy. 3 credits. *Offered fall.*

This course provides an introduction to the state and federal policy-making processes with a distinct focus on health policy. Emphasis will be on how health policy impacts health service organizations and the delivery of health care. *Prerequisites: HTH 354 and HSA 365.*

HSA 367. Comparative International Health Systems. 3 credits. *Offered spring every other year.*

This course concentrates on various approaches used to provide public and personal health services around the world. Strengths and weaknesses of different health care systems in terms of availability, accessibility, cost effectiveness, continuity and quality of services will be considered. *Prerequisite: HTH 354.*

HSA 385. Health Services Administration Career Seminar. 1 credit. *Offered fall and spring.*

This course is a career development seminar for health services administration students. An array of health administrators from varied health care organizations helps expand students' understanding of the health administration field. This course is designed for junior-level students with an expectation of a major concentration in health services administration.

HSA 452. Hospital Organization and Administration. 3 credits. *Offered spring.*

This course examines the organization and operation of community hospitals in the U.S. Specific attention is devoted to management's role in internal operations and in external relationships with the community and other stakeholders. Discussion of emerging issues affecting the management of hospitals and hospital systems is provided. *Prerequisites: HTH 354 and HSA 358 or permission of the instructor.*

HSA 454. Internship in Health Organizations. 3 credits. *Offered spring and summer.*

Full-time directed field experience in a health organization. Opportunity provided to work in an appropriate setting. Student furnishes off-campus living and traveling expenses. *Prerequisites: Permission of the instructor and a 2.5 GPA.*

HSA 455. Long Term Care Organization and Administration.

3 credits. *Offered spring.*

This course provides an in-depth examination of the organization and administration of long term care programs: nursing homes, home health services, adult daycare, assisted living and hospice. This course is recommended for students planning careers in long term care. *Prerequisites: HTH 354, HSA 358 and GERN 280 or permission of the instructor.*

HSA 456. Ambulatory Care Services: Organization and Administration.

3 credits. *Offered fall.*

This course provides an in-depth examination of the staffing, organization, budgeting and administration of ambulatory services including medical group practices, community and hospital-based clinics, and ambulatory surgery centers. This course is recommended for students planning administrative careers in this area with a foundation in health services administration. *Prerequisite: HTH 354, HSA 358 or permission of the instructor.*

HSA 462. Managed Care. 3 credits. *Offered spring.*

The growing influence of managed health care on the organization and delivery of health services in the United States is addressed in this course. Structural and operational characteristics of managed care organizations and plans, including HMOs, PPOs and other plans are explored, as are the implications of managed care plans for the management of hospitals and other health care organizations. *Prerequisite: HSA 358 or permission of the instructor.*

HSA 463. Quality Management in Health Care. 3 credits. *Offered fall.*

This course examines the quality management function required in diverse health care organizations. The student is exposed to definitions and standards of quality in health care, as well as to various tools used to measure, evaluate and improve quality. Emerging issues affecting the management of health care quality are discussed. *Prerequisites:* HTH 354 and HSA 358 or permission of the instructor.

HSA 464. Funding in Health Care. 3 credits. *Offered spring.*

General financial analysis is covered in terms of its application to health care entities. Concepts, issues and tools related to health care funding are covered. *Prerequisites:* COB 204, COB 241, FIN 345 and HTH 320.

Hebrew

Department of Foreign Languages, Literatures and Cultures

HEBR/REL 131-132. Elementary Biblical Hebrew. 4 credits each semester. *Offered fall and spring.*

An introductory course for students who intend to acquire the ability to read the Massoretic text of the Bible. Systematic study of the fundamentals of grammar, with emphasis on reading, pronunciation and translation.

HEBR/REL 231-232. Intermediate Biblical Hebrew. 3 credits each semester. *Offered fall and spring.*

An intensive reading course. Selections from the Massoretic text of the Bible. An introduction to the critical apparatus used within the Massoretic text as well as the variant reading apparatus printed in the Biblia Hebraica Stuttgartensia. *Prerequisite:* One year of college biblical Hebrew or equivalent.

History

Department of History

GHIST 101. World History to 1500. 3 credits.

A survey of important historical developments from prehistoric times to 1500. Emphasis is given to the rise and decline of great world civilizations and their lasting contributions to humanity.

GHIST 102. World History Since 1500. 3 credits.

A survey of important historical developments from 1500 to the present. Emphasis is given to the growth of nationalism, the development of colonialism, and to world events, problems and conflicts of the present century.

GHIST 150. Critical Issues in Recent Global History. 3 credits.

This course examines issues in recent history as a means to introduce, develop and enhance critical thinking skills and to supplement writing, oral communication, library and computing skills objectives for the General Education Cluster One. A seminar format emphasizes the development and articulation of well reasoned arguments in organized and grammatically acceptable prose.

HIST 201. Europe to 1815. 3 credits.

An examination of Europe from 1350 to 1815 with emphasis on the major themes, figures, ideas, and trends of the period, as well as the principal historical interpretations.

HIST 202. Europe Since 1815. 3 credits.

An examination of Europe from 1815 to the present with emphasis on the major themes, figures, ideas, and trends of the period, as well as the principal historical interpretations.

GHIST 225. U.S. History. 4 credits.

A survey of U.S. history from the Colonial period to the present, emphasizing the development of American civic life, the involvement of the U.S. in world affairs and the cultural richness of the American people. This course stresses the analysis and interpretation of primary sources.

HIST 263. Africa. 3 credits.

Emphasis is placed on the social and cultural aspects, as well as the emerging role the continent plays in contemporary world history.

HIST 267. Latin America. 3 credits.

A survey of the history of Latin America examining the pre-Columbian Indian civilizations, the Spanish and Portuguese conquests, the colonial era and its impact, the wars of independence, and selected case studies of the early national period.

HIST 268. Contemporary Latin America. 3 credits.

A survey of the historical development of Latin America during the 20th century with emphasis on selected nations which have played a significant role in Latin American affairs.

HIST 269. Middle and Near East: 500-1500. 3 credits.

A survey of the Middle and Near East from the Late Roman world through the rise of the Ottoman Empire. Emphasis is placed on the political, social and religious developments that form the historical and cultural bases for the communities that thrived in the region then and now.

HIST 270. Modern Middle East. 3 credits.

A survey of the political evolution of the modern Middle East. Emphasis is placed on the impact of Western imperialism, problems of Arab nationalism, origins of the Arab-Israeli conflict and involvement of Russia and the United States in the Middle East today.

HIST 273. Asia to 1600. 3 credits.

A broad survey of Eastern civilizations from their beginnings to about 1600 with emphasis on their distinctive aesthetic and intellectual traditions as well as the development of their political, social and economic institutions.

HIST 274. Modern Asia. 3 credits.

A historical survey of East, South and Southeast Asia with emphasis on the impact of the West on the traditional societies and governments of the Eastern World, as well as nationalism, colonialism, wars, revolutions and industrialization in Asia in modern times.

HIST 300. U.S. Military History. 3 credits.

A survey of the evolution of the American way of war from the Colonial era to the post-Cold War period emphasizing the development of military and naval institutions, U.S. strategic doctrine and the social legacies of the U.S. military establishment.

HIST 301. European Military History. 3 credits.

A survey of European military history (including Russia/Soviet Union) from the Hellenistic period through the 1982 Falklands-Malvinas War. The evolution of strategic doctrine and military institutions, their effect upon European society and their role in European imperialism will be emphasized.

HIST 305. History of Science and Christianity. 3 credits.

Over the last 2000 years, there have been recurring controversies over the proper relationships between science and Christianity. This class uses case studies such as Galileo, Darwin and creationism to explore the larger cultural context that gave life to the controversies. In the process, we'll examine changing ideas of what counts as science, how to interpret the Bible, and who gets to decide.

HIST 307. The Trans-Atlantic Slave Trade.** 3 credits.

This course explores the origins, processes and outcomes of the infamous trade. By studying participants' lives in Africa, Europe, Latin America and North America, the course helps students understand people's inhumanity to each other and the ways in which slavery and the trade in slaves forever altered the development of the Atlantic world.

HIST/ITAL 308. Contemporary Italian Civilization. 3 credits.

A study of Italian society, economics, politics and the arts from 1814 to the present. Instruction in English. (Research papers for Italian majors/minors in the language.)

HIST 310. American Business History. 3 credits.

A survey of the role of business in the United States from the Colonial period to the present, with emphasis on the entrepreneurial spirit, business developments, and innovations and the relationship between the federal government and commerce.

HIST 315. History of Sport in America. 3 credits.

An interpretive survey that examines the social and cultural history of America from the late 19th century to the present through sports.

HIST 316. The Life and Times of James Madison, 1751-1836. 3 credits.

An overview of the major political, philosophical, social and literary events that helped shape the world of the founders. James Madison's life will provide the framework for the course and emphasis will be given to his important role during this era.

HIST 320. Women in U.S. History. 3 credits.

A survey of the role of women in the United States from the Colonial period to the present. Attention is given to contributions of the ordinary women, the Women's Rights movements, the impact of women on reform and political movements, and the changing status of women in society.

HIST 321. European Women's History. 3 credits.

A survey European women's history from the Enlightenment to the Modern Era. Attention will focus on women in England, France, Germany, Italy and Spain as well as the former Soviet Union. The course traces the birth of modern feminism in the European context and explores gender expectations, paying particular attention to women's entrance into the public, political world.

HIST 322. The New South. 3 credits.

An examination of major problems in the history of the American South after Reconstruction, beginning with debates over the nature of the "New South" itself. The course will emphasize cultural and social history; it also explores political and economic developments. *Prerequisite: GHIST 225.*

HIST 323. The Old South. 3 credits.

Economic, cultural and social history of the antebellum South; 1790-1860. The region's political history will serve as a supporting part of the course.

HIST 326. The Automobile in 20th Century America. 3 credits.

This course uses the automobile as a window into 20th century American life. It examines the influence of automobility on patterns of work and leisure; on struggles over gender, race and ethnicity; on individualism, consumerism and government regulation. It also surveys mass automobility's effects on our physical and natural environments and looks at future prospects of automobility in the information age.

HIST 327. Technology in America. 3 credits.

A historical survey of the complex and changing relationship between technology and American society from Native American canoes to the Internet. Attention is given to technology's role in relations of power, in the home, on the farm, in the workplace and on the battlefield.

HIST 328. History of Science, 1543-1859. 3 credits.

An intellectual and social survey of science from Copernicus' *de Revolutionibus* to Darwin's *The Origin of Species*. Topics include Renaissance natural philosophy, the Scientific Revolution, Enlightenment science and the birth of geology and biology.

HIST 329. History of Science Since 1859. 3 credits.

A survey of pure and applied science since the publication of Darwin's *The Origin of Species*. Topics include the development of relativity and quantum theory; Darwinism and the eugenics movement; rocketry, radar and the Manhattan Project; and the revolutions in biochemistry, genetics, materials science and information technology.

HIST 330. U.S. Diplomatic History. 3 credits.

A survey of major themes, events and forces shaping the development of American foreign relations throughout our history. Key documents such as the Monroe Doctrine will be examined, as will significant issues including manifest destiny, the United States as a world power, origins of Cold War and Detente.

HIST/ANTH 331. Historical Archaeology. 3 credits.

The course introduces students to the purposes, subject matter, methodology and historical background of the discipline of historical archaeology. Building on research issues and methodologies of anthropological archaeology and history, the multidisciplinary aspects of this field are introduced through field trips, projects, guest lectures, readings and classroom presentations. *Prerequisite: ANTH 197 or HIST equivalent.*

HIST 337. Practicum: Selected Topics in Local and Regional History. 3 credits.

Selected historical topics relating to the Shenandoah Valley and surrounding region are studied in depth. Students will undertake primary research and collaborate on final project. See the e-campus for current classes. The course may be repeated when content changes. *Prerequisite: GHIST 225.*

HIST/SOCI 338. U.S. Urban Social History. 3 credits.

This course will examine the complex social interactions among people in the US urban areas from the colonial period through the present focusing on the themes of race, gender, sexuality, labor, housing, consumption and the environment. Participants of this course will engage in a collective research project examining the transformation of Harrisonburg in the post-World War II era.

HIST 339. Selected Themes in U.S. History. 3 credits.

Selected themes are studied in depth. See e-campus for current classes. Course may be repeated when content changes.

HIST 340. Internship in History. 3 credits.

Provides students with practical experience in using historical skills in a public or private agency. Periodic student reports and seminars required. This course may be repeated with permission of department head. *Prerequisites: Junior or senior standing, HIST 395 and permission of the department head.*

HIST 341. Selected Themes in World History. 3 credits.

Selected themes are studied in depth. See e-campus for current classes. Course may be repeated when content changes.

HIST 350. Virginia. 3 credits.

An interpretive survey of the history of Virginia from its Colonial beginnings to the present time.

HIST 355. Afro-American History to 1865. 3 credits.

A survey of the experience and changing status of African-Americans in the United States from 1619 through the Civil War, with attention to the West African background, cultural developments, social and political movements, slavery and the slave trade, dual-consciousness, and emancipation.

HIST 356. Afro-American History Since 1865. 3 credits.

A survey of the experience and changing status of African-Americans in the United States from Reconstruction to the present, emphasizing the strengthening of social and cultural institutions; Afro-American leadership; the impact of segregation; the Great Migration; labor, protest and cultural movements; pan-Africanism; the Civil Rights Movement; and contemporary issues.

HIST 360. Research Apprenticeship in History. 3 credits.

Provides students with advanced research and writing opportunities. Student learning contract must be approved before a student can enroll. Periodic student reports and seminars required. Open to history majors only. *Prerequisites: HIST 395.*

HIST 361. Class and Ethnicity in Africa.** 3 credits.

An examination of the development of class and ethnicity in African societies. Attention is given to the pre-Colonial and Colonial periods, as well as to the effects of imperialism, development strategies and structural adjustment policies on class and ethnic relations in contemporary Africa.

HIST 362. Introduction to U.S. Religious History. 3 credits.

The course introduces the religious history of the colonies and United States, from native traditions through the 20th century. We examine the historical/social impact of groups ranging from Roman Catholic migrants to evangelical Protestants and Scientologists. Special attention is paid to the extraordinary and persistent levels of religious diversity and adherence throughout U.S. history.

HIST 371. India.** 3 credits.

A survey of the history of the Indian subcontinent from antiquity to the present. The course stresses the arrival of Islam, the impact of Western colonization, the struggle for independence, and the problems and achievements of nationhood in the post-Colonial era.

HIST 372. Afghanistan in Regional and Global Systems.** 3 credits

The country's Silk Road heritage, early Islamic experience, and frontier status between Safavid Iran and Mughal India introduce modern Afghanistan's origins within British Indian colonialism and global capitalism. Twentieth-century and contemporary Afghanistan are engaged through concepts of modernity, nationalism, internationalization, and local social and cultural resilience and adaptation.

HIST 375. History of Modern Southeast Asia.** 3 credits.

A survey of Southeast Asian history from the 16th century to the present. Particular attention is given to European and American colonization of the region, the impact of the Japanese occupation, and the achievement of independence.

HIST 377. History of Korea.** 3 credits.

A survey of Korean history from its earliest times to the present day. It is designed to develop an understanding in Korea, its historical tradition and the place of Korea in the larger narrative of East Asia and world history.

HIST 379. Family and Gender in East Asia.** 3 credits.

This is a survey focusing on the ways families have been defined and gender roles assigned in China, Korea, Japan in pre-modern and modern times. Attention will be given to how the changing nature of family and gender have helped shape the historical evolution of these societies.

HIST 383. Early England. 3 credits.

A survey of English history from the earliest times to the late 17th century. Particular attention is given to the rise of Parliament and the growth of limited monarchy.

HIST 384. England and the Empire-Commonwealth. 3 credits.

A survey of English history from the late 17th century to the present. Particular attention is given to the growth of British democracy, the industrial revolution, and the rise and fall of the British Empire.

HIST 385. Russia to 1855. 3 credits.

A survey of Russian history from the origins of the Russian state down through the reign of Nicholas I. Attention is given to such topics as the Kievan state, the Muscovite state, the rise of Imperial Russia and the emergence of Russia as a Western European power.

HIST 386. Russia Since 1855. 3 credits.

A survey of Russian history from the reign of Alexander II to the present. Attention is given to such topics as the decline of Imperial Russia, the rise of the revolutionary movement, the emergence and consolidation of the Soviet state, and contemporary Russia.

HIST 387. Germany to 1871. 3 credits.

A survey of the German-speaking lands of Central Europe from the end of the Thirty Years War to the creation of the Second Reich. Emphasis is given to political, diplomatic and military affairs, although social, economic and cultural developments are included.

HIST 388. Germany Since 1871. 3 credits.

A survey of German history during the Second Reich, World War I, the Weimar Republic, the Third Reich and the post-World War II periods of Cold War and Detente. Emphasis is given to political, diplomatic and military affairs, although social, economic and cultural developments are included.

HIST 389. France to 1789. 3 credits.

A survey of French history from the Capetians to the end of the old Regime, 987-1789. Particular attention is given to France's medieval heritage; the impact of the Renaissance; the Protestant revolt; the policies of Richelieu, Colbert and Louis XIV; and the background of the French Revolution.

HIST 390. France Since 1789. 3 credits.

A study of the social and political events which determined the course of French history from the Revolution through the Fifth Republic. Particular attention is given to the social, economic and cultural currents which have contributed to the making of contemporary France.

HIST 391. Travel Studies Seminar. 3 credits.

Designed to encourage the student to augment the regular academic program through independent investigation including organized travel-study. Prearrangements must be made with a designated faculty member who will direct the study with preparatory instructions and final requirements. *Prerequisite: Permission of the department head.*

HIST 395. History Seminar. 3 credits.

A seminar to introduce history as an academic discipline and acquaint the student with the work of major historians and problems of historical interpretation. Students will be required to complete assignments designed to develop basic skills in historical research and writing. Open to all students, but required of history majors. Fulfills the College of Arts and Letters writing-intensive requirement for the major.

HIST/ARTH 396. Introduction to Public History. 3 credits.

An introduction to the varied and interdisciplinary "field" of public history – such as community/local history, historic preservation, archives, historical archaeology, museum studies, business and policy history, documentary editing and publishing, and documentary films – through readings, class discussions, occasional guest speakers and occasional field trips.

HIST 399. Special Studies in History. 3 credits.

Designed to give capable students in history an opportunity to complete independent study under faculty supervision. *Prerequisite: Permission of the department head.*

HIST 402. Workshop in Colonial American Life. 3 credits.

A comparative study of life in 18th-century Virginia and Massachusetts. Colonial Massachusetts is studied through the use of printed materials, films and lectures. Published sources, lectures and a four-day study visit to Colonial Williamsburg are used for the study of Virginia. Supplemental fee required. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 403. Workshop in Civil War Virginia. 3 credits.

This workshop examines the impact of the Civil War upon Virginia and its citizens. It explores the secession crisis, the revolution in firepower that forced changes in battlefield tactics and war aims, and the development of "hard war." A four-day battlefield tour will reinforce ideas discussed in the classroom. Supplemental fee required. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 405. Travel and Exploration. 3 credits.

This class is about travel and exploration in world history, using specific episodes to examine motives, consequences and the experience of travel. In studying long-distance trade, pilgrimages, voyages of exploration and discovery, and even tourism, we will look at the logistics of travel, attempts to map the world, and the difficulties people had in interpreting what they found. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ARTH 408. The Museum: Histories and Controversies. 3 credits.

This seminar centers on art museums in the United States. Topics include the historical development of museums, related cultures of display, recent debates on institutional mission and responsibility, and contemporary artists who employ the museum as medium, subject matter or site. Required field trips. *Prerequisite: GARTH 206 or permission of instructor.*

HIST 411. Colonial America. 3 credits.

An interpretive survey of England's mainland colonies from 1558-1776. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 413. The Anglo-American Constitutional Tradition, 1603-1791. 3 credits.

Surveys Anglo-American political and constitutional traditions. Emphasizes the evolution of 17th- and 18th-century British constitutionalism, its transfer to the British North American colonies, and the development of the first national and state constitutions in the United States. *Prerequisites: GHIST 225 and HIST 395.*

HIST 420. U.S. History, 1763-1800. 3 credits.

An interpretive study of the political, economic, social and cultural history of the United States from the French and Indian War through the Federalist period. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 422. U.S. History, 1789-1848. 3 credits.

An interpretive study of the political, economic, social, intellectual and cultural history of the United States from the ratification of the Constitution through the Mexican-American War. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 425. Civil War and Reconstruction. 3 credits.

A study of the background, development, personalities and aftermath of the Civil War. Special attention is given to the coming of the war and different explanations of its causes and to the policies and significance of Reconstruction, with varying interpretations thereof. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 427. U.S. Environmental History. 3 credits.

This course examines the role nature plays in North America's history. Students will explore how natural forces shape history, how humankind affects nature, and then how those ecological changes reciprocally affect human life once again. Topics addressed include the familiar (the industrial revolution, slavery and the Civil War) and the less well-known (soil fertility, fast food and garbage). *Prerequisite: HIST 395 or permission of instructor.*

HIST 428. American Workers in the Industrial Age, 1877-1948. 3 credits.

This seminar examines what contemporaries called the Labor Problem, from the strikes of 1877 to the accord between GM and the UAW in 1948. It explores the impact of industrialization, race and gender, consumerism, the New Deal and two world wars on the lives of American workers and their unions.

HIST 430. The Gilded Age: U.S. History, 1877-1901. 3 credits.

An interpretive study of the United States from the conclusion of the Civil War until the assassination of William McKinley with special emphasis on industrialization, urbanization, western and overseas expansion, early reform movements, and politics. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 431. Reform, World War and Prosperity: U.S. History, 1901-1929. 3 credits.

An interpretive study of U.S. history from the rise of Theodore Roosevelt through the 1920s. Emphasis is placed on the reform movements of the period and the problems and issues generated by the nation's emergence as a world power and an industrial, urban society. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 432. Depression, War and Cold War: U.S. History, 1929-1961. 3 credits. An interpretive study of U.S. history from the onset of the Great Depression in 1929 through the inauguration of John Kennedy in 1961. Emphasis is given to the New Deal, World War II and the early years of the Cold War. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 433. Reform, Upheaval and Reaction: U.S. History Since 1961. 3 credits. An interpretive study of U.S. history from the inauguration of John Kennedy in 1961 through the present. Emphasis is given to the Kennedy-Johnson administrations, Vietnam, the counterculture and student movement, Watergate, and the Reagan years. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ANTH 436. Afro-Latin America.** 3 credits.

Latin America and the Caribbean were the first and largest parts of the Western Hemisphere to be populated by Africans. Afro-Latin America examines cultural formations Africans brought to these regions. Beginning with an overview of the slave trade, it examines the histories of Africans and African-descent people throughout Latin America, as well as contemporary Afro-Latin American culture(s). *Prerequisites: One course in either Latin American or Africana studies (any discipline); upper-division status or permission of instructor.*

HIST 439. Selected Topics in American History. 3 credits.

Selected topics are studied in depth. See e-campus for current topic. Course may be repeated for credit when content changes. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/SCOM/ANTH 441. Oral History and Social Justice. 3 credits.

This course will explore the theoretical and methodological questions that have been raised in the field of oral history related to evidence and objectivity, personal and collective memory, narrative structure, ethics and social justice. Throughout the course students will conduct multiple interviews in the Shenandoah Valley and prepare a final presentation based on this material. *Prerequisite: HIST 395 or permission of instructor.*

HIST 443. Modern American Technology and Culture. 3 credits.

This seminar examines the sociotechnical history of twentieth century American. It employs several analytical frameworks to examine the complex relationship between social and technological change, casting particular attention on the mass production ethos, the social meanings of everyday household technologies, the nuclear age, the space age, countercultural technology and the high tech age. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 444. Revolution and Social Change in Latin America.** 3 credits.

This seminar will explore why revolutions were a major feature of the Latin American landscape throughout the modern era and how they contributed to changes in society. In a typical semester the course will explore the lives of leaders such as Che and Emiliano Zapata and investigate the causes and consequences of revolutionary actions in Cuba, Mexico and Nicaragua. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 445. Latin America and the United States.** 3 credits.

An examination of the diplomatic relations between Latin America and the United States from the era of the Latin American revolutions for independence to the present. Emphasis is placed on the Monroe Doctrine and its extensions, as well as the development of the Pan-American system. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 446. Mexico, Central America and the Caribbean.** 3 credits.

A study of the nations of the area with special attention given to Mexico, Panama and Cuba. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 447. South America.** 3 credits.

Historic development of the continent with special attention to selected nations since the early national period of the 19th century. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 448. Gender in Colonial Latin America.** 3 credits.

This course is designed to introduce students to critical issues in colonial Latin American history and the theories and methods of gender history. Students will explore pre-contact conceptions of the roles of women and men from Spain, Portugal, Western Africa and the Americas and the continuities and changes those ideas underwent as a result of contact and conquest in the New World. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 450. Studies in Military History. 3 credits.

A seminar addressing topics in U.S. or European military and naval history such as military operations, strategic theory, institutional evolution, the nature of modern war, technology and the warrior ethos, military-industrial-academic relations, and military ethics and the laws of war. *Prerequisite: HIST 300 or HIST 301 depending on seminar topic offered.*

HIST 453. Patterns of Global History.** 3 credits.

This course introduces students to the literature, concepts, themes and methodology of global history, a subfield of history that seeks to compare experiences across regional, area, cultural and temporal boundaries, to look at cross-cultural interactions and to examine large-scale patterns that have shaped history on a global scale. *Prerequisites: GHIST 101, GHIST 102 and HIST 395.*

HIST 455. World Political and Social Thought to Early Modern Times.** 3 credits.

A study of the most significant political and social ideas from around the world. Emphasis will be both on the classics and popular ideas from Western Asia, China, Greece, India, Rome, Japan and the developing states of Europe from ancient times through the 18th century. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 456. The Global Economy and Nationalism.** 3 credits.

An examination of the global economy's growth since the 14th century. The course investigates the emergence of capitalism, its relationship to modern nationalism, and the role that the concepts of development has played in the contemporary organization of nation-states from the perspective of world systems/dependency theory approaches. *Prerequisites: GHIST 102 and HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 460. Modern Japan.** 3 credits.

The development of Japan from around the mid 19th century to the present. Attention is given to the collapse of isolation, the end of the Shogunate, the creation of a modern state, the years of party government, the rise of militarism, the Pacific war, the occupation and the new Japan. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 461. Marxism-Leninism in Global Affairs.** 3 credits.

A study of the most significant ideas concerning politics, society, economics and philosophy, which shaped Communism and Marxist varieties of Socialism. *Prerequisite: HIST 395 or permission of instructor.*

HIST 462. The Rise and Fall of Nazi Germany, 1918-1945. 3 credits.

An advanced study of the period of Nazi domination in Germany covering the Weimar Republic, the rise of the NSDAP, the Third Reich and World War II. The nature of totalitarianism, the character of Adolph Hitler and the general Weltanschauung of Germany under the Third Reich are emphasized. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 463. Tudor-Stuart England. 3 credits.

A study of the economic, intellectual, political and religious development of the English people from 1485 to 1714, with special attention to the constitutional struggles of the 17th century. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 464. Renaissance and Reformation. 3 credits.

A study of High Medieval civilization as an introduction to the history of Modern Europe. Attention is given to the Italian and Northern Renaissance, fragmentation of Western Christendom, intellectual impact of Luther and Calvin on Western thought and structure of Tudor despotism in England. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 465. Twentieth-Century Britain. 3 credits.

An examination of the major themes of British history in the 20th century, with attention to political, social, economic, diplomatic and imperial topics from the pre-World War I through post-World War II decades. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 466. The Family, 1400-1800. 3 credits.

An examination of the bibliography, methods and substance of family history in Europe and America. Emphasis will be on sources, structure, patterns of change and continuity, and stages of family life to the Industrial Revolution. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 470. Modern Africa.** 3 credits.

Africa in the 20th century, with special emphasis on Senegal, Ivory Coast, Gold Coast (Ghana), Nigeria and Zaire. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 472. Greece and Rome. 3 credits.

Advanced study of Greek and Roman history from the Minoans to the fall of the Roman Empire. Emphasis is given to political, military, social and cultural development of each civilization. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 473. The Islamic World.** 3 credits.

The rise of Islam and spread of the Ottoman Empire. A survey of the Middle East from the pre-Islamic period to World War I. This course provides a background for understanding the present situation in the Middle East. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 474. The Byzantine Empire. 3 credits.

A survey of the political, economic, military and religious history of the Byzantine Empire, 330-1453. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 475. Modern Russia. 3 credits.

A study of Russia from the 1917 Revolution to the present. Readings and discussion will emphasize significant political, economic, social and cultural developments. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 476. Ancient History.** 3 credits.

A survey of the rise and fall of ancient civilizations of the Near East and Mediterranean area. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 477. Medieval Europe. 3 credits.

Attention is focused on Europe in the Middle Ages, with a concentration on social and intellectual aspects and the development of parliamentary institutions. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 478. Eastern Europe. 3 credits.

A study of the lands between Germany and Russia, from the Baltic to the Balkans. Emphasis is on the Hapsburg Empire and its successor states, the origins of the World Wars, the post-World War II communist governments and the cultural and intellectual contributions of the Eastern European people. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 480. Modern China. 3 credits.

China since 1840, with special emphasis on China's response to the West, the disintegration of imperial China, the abortive experiments in republicanism, the origin and nature of Chinese Communism. China under Mao and post-Mao developments. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 481. Early Modern Europe: The New Worlds of Exploration and Science. 3 credits.

A study of the major changes in world view brought on by exploration and science in the 15th, 16th and 17th centuries in Europe. Attention is given to the causes, individuals and technology involved in each movement. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 483. Baroque and Revolutionary Europe, 1648-1815. 3 credits.

A study of the unfolding of European civilization from the Baroque through the Napoleonic era. Attention is given to the Old Regime and its institutions, the causes of popular revolts, the Enlightenment, the beginnings of industrialism and urbanism, and the impact of the French Revolution on Europe. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 484. Nineteenth-Century European Civilization, 1815-1914. 3 credits.

An interpretive study of European history from the Congress of Vienna to the outbreak of World War I. Particular attention is given to the intellectual climate of the period, with emphasis on liberalism, nationalism, socialism and nihilism. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 485. Colonialism in the Greater Middle East.** 3 credits.

A comparative examination of colonialism focusing on the cultural and intellectual dimensions of colonial encounters. Lectures and readings will emphasize European strategies and techniques of rule in the Arab world (including North Africa), Iran and India. Research and writing assignments will allow for the consideration of American involvement in Palestine-Israel, Iraq and Afghanistan. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 486. Europe Since 1914. 3 credits.

An interpretive study of European history from World War I to the post-Cold War era, with special emphasis on the revolutions of 1917-1919, the rise of totalitarianism, the origins of World War II, the Cold War, and the continuing crisis of values. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 487. World War II. 3 credits.

An examination of the origins, conduct and immediate aftermath of World War II in Europe and Asia. Attention is given to Japan's Pacific War, Hitler's war in Europe and the ultimate victory of the Allies. The major military campaigns are discussed as are collaborations, resistance and the War Crimes Trials. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 488. The Holocaust in Global Context. 3 credits.

Introduces students to the most significant accomplishments and debates of recent Holocaust scholarship, emphasizing how historical memory of the Holocaust has been created and has evolved over time. Analyzes the historical causes and development of the Holocaust, as well as its cultural, political and scholarly resonance in the post-1945 world. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 489. Selected Topics in World History. 3 credits.

Selected topics are studied in depth. See e-campus for current topic. Course may be repeated for credit when content changes. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST 491. Editing Historical Documents. 3 credits.

A seminar in the techniques of analyzing manuscript collections in order to create an edition of historical documents. Study will address the theory and practice of historical documentary editions, including collecting, selecting, transcribing, annotating, proofing, illustrating, indexing and publishing. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ANTH/ARTH 492. American Material Culture. 3 credits.

A broad introduction to the multidisciplinary "field" of material culture studies through readings, written assignments, in-class exercises and field trips. The course introduces ways of looking at and learning from objects and examines how scholars from several disciplines have used material culture in their work. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ARTH 493. Historic Preservation. 3 credits.

An introduction to the philosophy and techniques of historic preservation, guidelines for restoration, state and national register forms and procedures, historic architecture, structural analysis, restoration techniques, as well as the business aspects of historic preservation projects. Field trips are a major component of the course. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ARTH 494. Introduction to Museum Work. 3 credits.

The practice and philosophy of museum work, including the areas of design, conservation, registration, education and administration. Subject is taught from the perspective of the museum profession and is applicable to diverse disciplines and types of collections. *Prerequisite: HIST 395. Instructor's permission required to waive HIST 395 prerequisite for non-history majors.*

HIST/ANTH 496. Research Thesis. 2 or 4 credits.

Students will gather, analyze and interpret archaeological/historical data over two semesters. Students will work on a project that demonstrates theory, research design, data gathering and analysis, culminating in a written thesis. The course meets the capstone requirement for the historical archaeology minor but is also available to students in history and anthropology. *Prerequisite: Junior or senior standing.*

HIST 497. Genealogical Research and Family History. 3 credits.

Focus is on the methodology associated with genealogical research, the evaluation of sources, methods of documentation, the availability of online resources and the analysis of evidence. The course will require that those enrolled utilize local and state repositories and work with local research topics as well as with personal data. Personal genealogical information should be secured at home before the start of the semester.

HIST 498. Marshall Scholars Seminar. 3 credits.

A research intensive seminar based on the manuscript collections and other primary sources of the Marshall Library. Students may choose any subject involving 20th-century diplomatic and military history and political affairs from 1900 to 1960 – the approximate dates of George C. Marshall's public service. *Prerequisites: HIST 395 and acceptance into the course prior to the beginning of the semester in which this course is taken.*

HIST 499. Honors. 6 credits. *Offered each fall and spring.*

Year course. *Prerequisite: HIST 395.*

** This course satisfies the Department of History world history requirement.

Hospitality and Tourism Management

College of Business

HTM 100. Hospitality and Tourism Management Seminar.

1 credit. *Offered fall and spring.*

A one-credit seminar course designed to expose students interested in hospitality and tourism management to current issues, trends, career opportunities and company profiles within the service industry.

HTM 250. Overview of Hospitality and Tourism Management. 3

credits. *Offered fall and spring.*

Exposes students to the areas of lodging, food and beverage, tourism and entertainment management, special events and meeting planning, and club and resort management. Emphasis is on hospitality industry scope, organization and economic impact; includes familiarization with industry terminology and individual and business contributors to the field of hospitality and tourism management. *Prerequisite: HTM major.*

HTM 251. Internship Preparation. 1 credit. *Offered fall and spring.*

A career search and skills development course. Special attention is given to the creation of effective resumes and business correspondence; developing and refining networking and interviewing skills; gaining practical experience in executing a job search; and developing leadership and managerial skills. *Prerequisite: HTM 250.*

HTM 261. Internship. 0 credits. *Offered fall and spring.*

Required 600 hours of approved hospitality and tourism work experience. CR/NC only. 0 credits. All work sites must be approved.

HTM 271. Introduction to Foodservice Management. 1 credit. *Offered fall and spring.*

An introduction to food and beverage service procedures, techniques and intermediate level commercial food production. Attention is given to special events management. *Corequisite or prerequisite: HTM 250 or permission of the instructor.*

HTM 298. Special Studies in Hospitality and Tourism Management.

3 credits. *Offered fall and spring.*

A special studies course designed to explore areas of current topical concern in the lodging, food and beverage, travel and tourism, and entertainment industries. Course content will vary. *Prerequisites: Open only to non-HTM majors.*

HTM 330. Hotel Operations and Hospitality Technology.

3 credits. *Offered fall and spring.*

An in-depth look at a full service hotel through the eyes of a general manager. The course will focus on operations, engineering, housekeeping, uniformed services, front office, reservations and revenue management. Different hospitality technology platforms and software programs will be used to expose students to hospitality technology. *Prerequisites: HTM 250, HTM 261, COB 300 and HTM major.*

HTM 331. Hospitality Law. 3 credits. *Offered fall and spring.*

The course focuses on the application of the law to the hospitality and tourism industry including rights and obligations of guests and lodging, food service, club, event management and association operators. The identification of potential legal problems and formulation of preventive measures to limit/prevent liability are emphasized. Food service and beverage service certification included. *Prerequisites: HTM 250 and HTM 261. Corequisite or prerequisite: COB 300 and HTM major.*

HTM 371. Culinary Arts. 3 credits. *Offered fall and spring.*

An application of basic food preparations for the restaurant industry. Focus is on preparing students to understand gastronomy and communicate with culinarians. Menu development, plate presentation, preparations methods, and flavor development and food service trends will be experienced. Lab fee applies. *Prerequisites: HTM 250 and COB 300.*

HTM 400. Hospitality and Tourism Management Senior Seminar I.

1 credit. *Offered fall and spring.*

A discussion with hospitality industry leaders about the future of the industry and the opportunities that exist for young managers. The course will explore the challenges that young hospitality managers will face in the first three to five years after graduation and will help them cope with the transition. Guest speakers and industry management books will guide the learning. *Prerequisites: COB 300 and senior HTM major. Corequisite or prerequisite: HTM 461.*

HTM 412. Club and Resort Management. 3 credits. *Offered fall.*

An application of business concepts to the private equity club and full service resort industry. Industry cases are used to facilitate discussion of similarities and differences among private equity clubs, full service resorts and other hospitality business in the areas of culture, asset management and operations. *Prerequisite: COB 300 and HTM major.*

HTM 425. Hospitality Human Resources Management.

3 credits. *Offered fall and spring.*

Identification and exploration of the information needs of the HTM manager in making policy and personnel decisions. Different philosophies and processes for locating, attracting, hiring and training a qualified staff are examined. Emphasis is placed on the work environment within the service area. *Prerequisites: COB 300 and HTM major.*

HTM 431. Advanced Lodging. 3 credits. *Offered spring.*

A senior capstone course designed to expose students to strategic issues concerning the lodging industry on a whole. The interactive course draws upon concepts from functional disciplines (i.e., marketing, finance, accounting and operations) in the diagnosis, analysis and resolution of complex lodging situations. *Prerequisites: HTM 330 and HTM major.*

HTM 434. Purchasing, Cost Controls and Financial Management. 3

credits. *Offered fall and spring.*

This course applies purchasing, production and fundamentals of cost controls and financial management to the hospitality industry. Specifically it is an application of food, beverage, and labor cost controls and their deployment in an operations budget for a special event. *Prerequisite: COB 300. Corequisite: HTM 470. Corequisite or prerequisite: HTM 331.*

HTM 450. Special Events and Meeting Management. 3 credits. *Offered fall.*

A senior-level course designed to explore conferences, conventions, expositions, meetings and special events as they relate to the responsibilities of a planner, selection criteria for host venues, legal and ethical issues, negotiating process, program design, budgeting, contracts, marketing, logistics and evaluation. *Prerequisites: COB 300 and HTM major.*

HTM 451. Entertainment Management. 3 credits. *Offered spring.*

A senior capstone course designed to expose students to strategic issues concerning the entertainment industry. Course content will vary. *Prerequisite: COB 300, be 21 years of age at the beginning of the semester and HTM major.*

HTM 461. Supervisory Internship. 0 credits. *Offered fall.*

Required 400 hours of approved hospitality and tourism supervisory experience. CR/NC only. All work sites must be pre-approved. *Prerequisites: HTM 261, COB 300 and/or permission of the instructor. Corequisite or prerequisite: HTM 250.*

HTM 470. Catering Operations and Event Management. 3 credits.

Offered fall and spring.

Management teams are required to plan, organize and budget for an entertaining evening composed of high quality food, exceptional service and entertainment. Team dynamics, creative problem solving, and integration of food, beverage, entertainment, décor, finance, and employee management are discussed and integrated into a detailed plan. *Prerequisite: COB 300. Corequisite: HTM 434. Corequisite or prerequisite: HTM 331.*

HTM 471. Hospitality Leadership. 3 credits. *Offered fall and spring.*

Management teams are required to produce an enjoyable evening composed of quality food and entertainment while staying within budget. Management teams are expected to supervise up to 50 student workers. Students will analyze and evaluate different leadership styles observed during the events, during internships and by hospitality industry leaders. Senior assessment may also occur. *Prerequisite: HTM 470. Corequisite or prerequisite: HTM 461.*

HTM 473. Beverage Management and Marketing. 3 credits. *Offered spring.*

The course is designed to enhance knowledge in the identification and evaluation of beverages typically served in hospitality establishments. Special attention is given to alcoholic and non-alcoholic beverages with regard to price/quality relationships; channels of distribution and marketing; trends and current issues faced by the industry; and service ethics. *Prerequisites: COB 300, senior HTM major and be 21 years of age at the beginning of the semester.*

HTM 490. Special Studies in Hospitality and Tourism Management.

1-3 credits. *Offered fall and spring.*

The course is designed to give capable students in hospitality and tourism management an opportunity to complete independent study under faculty supervision. *Prerequisites: Permission of the instructor and director prior to registration.*

HTM 498. Special Topics. 3 credits. *Offered fall and spring.*

This course is designed to allow exploration of areas of current topical concern or to exploit special situations. Course content will vary. For course content consult your adviser. *Prerequisite: Permission of the instructor.*

Human Resource Development

College of Education

HRD 100. Human Resource Development Leadership Laboratory.

2 credit. *Offered fall and spring.*

Hands-on practicum of leadership strategies and techniques designed to give each student a better appreciation for the dynamics of leadership in intimate, physically challenging and stressful environments, both indoors and out. Students operate in teams which are formed and reorganized on a continuous basis, surrounded by peer at several levels of leadership experience and training. Collaborative learning is enhanced when students apply what they learn in class by describing relevant lessons learned through experiences outside the classroom. The focus of this course is to provide students with the opportunity to lead and follow in an observed setting and receive constant feedback and mentoring on their demonstrated leadership skills. Students learn through leading as well as through a critical reflection, inquiry, dialogue and group interaction. Everyone is responsible for contributing to the learning process.

HRD 101. Introduction to Leadership. 1 credit. *Offered fall and spring.*

An introduction to: various leadership styles and their effect on organizations; insights into the leader's roles and responsibilities within the context of the organization; character and values based leadership; basic leadership actions; the importance of self improvement in the areas of time management, health and fitness, goal setting, academic accomplishment and communication; group dynamics, and the development of interpersonal skills. *Corequisite: HRD 100.*

HRD 145. Leadership in a Diverse World. 3 credits.

This leadership course, focusing on diversity, examines leading, leadership and change while encouraging practical application. Students conduct research on leadership in a diverse world, explore change leadership from multiple perspectives and examine leadership in everyday settings, particularly daily leader and follower interaction. Self assessment of diversity and leadership assumptions, models, context and themes are addressed.

HRD 201. Leadership Styles Theory and Application. 2 credits. *Offered*

fall and spring.

Explores the dimensions of creative and innovative leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the leadership framework (trait and behavior theories). Students practice aspects of personal motivation and team building in the context of planning, executing and assessing team exercises and participating in leadership skills labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of institutional structures, duties and responsibilities of organizational/institutional leaders, and leadership in small organizations. Case studies provide tangible context for learning leadership skills, values, actions and attributes as they apply to a contemporary setting. *Prerequisites: HRD 100, HRD 101. Corequisite: HRD 202.*

HRD 202. Developing Leader Skills. 2 credits. *Offered fall and spring.*

Examines the challenges of leading teams in a complex contemporary operating environment. This course highlights dimensions of leadership actions as well as developing an understanding of the process to develop plans and orders for others to execute. Continued study of the theoretical basis of the leadership framework explores the dynamics of adaptive leadership in the context of historical settings.

HRD 240. Introduction of Human Resource Development. 3 credits.

Offered fall and spring.

An introduction to the role and scope of human resource development with particular emphasis on required competencies for HRD professionals. Critical moral and ethical issues are introduced.

HRD 245. Leadership in Organizational Settings. 3 credits. *Offered fall and spring.*

An examination of the principles of leadership and their application to group settings. Emphasis will be placed on the critical appraisal of the facets of leadership through the use of cases and readings.

HRD 370. Performance and Task Analysis in Human Resource

Development. 3 credits. *Offered fall and spring.*

This course is designed to provide the basic skill level for students in the area of occupational analysis and subsequent assessment. Particular emphasis is placed on actual analysis and assessment situations with application to program and curricular design.

HRD 385. Foundations of Instructional Design. 3 credits.

The purpose of this course is to apply instructional theory to the creation of instructionally sound education programs and materials. *Prerequisites: HRD 240 and must be an HRD minor or major. Corequisite: HRD 370.*

HRD 400. Occupational Internship. 3 credits.

A structured occupational internship experience designed to provide students with the opportunity to observe within an actual occupational setting the role and scope of human resource development efforts. Minimum 400-hour experience approved by the program coordinator. Credit may not be earned for both HRD 400 and HRD 401.

HRD 470. Diversity and International HRD. 3 credits.

The course is designed to prepare students for meeting the challenges presented by globalization and workforce diversity in HRD. Topics explored include the impact of increasing globalization and diversity in HRD and the workplace, cross-cultural communications, conflict resolution in diversity settings, global diversity management, ethics and cross-culture leadership competencies. It examines and explores theories and techniques for dealing with institutional "isms" (e.g., multiculturalism, sexism, ageism and professionalism, etc.) as they relate to managing training, conflict resolution, career development, mentoring, performance improvement, team-building and peer rating methods. *Prerequisites: HRD 240 and HRD 245. Must be an HRD minor or major.*

HRD 475. Seminar in Leadership. 3 credits.

Designed to provide senior level students with the opportunity to face some of the dilemmas of leadership. Students will be encouraged to critically examine leaders and organizations to draw from real events the ambiguities of leadership. Course will involve extensive reading, casework and a range of guest speakers. *Prerequisite: HRD 245.*

HRD 480. Learning in Adulthood. 3 credits. *Offered fall and spring.*

A study of the learning processes of the adult learner with an emphasis on adaptations of the instructional process to accommodate the differences inherent in the adult learning environment. Practical applications to actual adult learning situations are included.

HRD 485. Development of Materials and Programs. 3 credits. *Offered fall and spring.*

This course is designed to provide the basic skills necessary to design and develop performance-based training programs and courses. Emphasis will be placed on the actual design and development of training materials.

HRD 490. Special Study in Human Resource Development. 1-3 credits.

Designed to provide in-depth and up-to-date exposure to the topics/issues pertinent to human resource development and allow students to explore topics of special interest in human resource development. *Prerequisite: HRD 240 or permission of the instructor.*

Human Science

College of Arts and Letters, College of Integrated Science and Technology, College of Science and Mathematics

HSC 400. Human Science. 1 credit.

Seminar course in which current topics in human science will be examined from the multiple perspectives of anthropology, biology and psychology. Students can expect to study, and attempt to synthesize, proximate (mechanistic), ontogenetic and evolutionary explanations for each of the topics examined. Open only to human science minors.

Industrial Design

School of Art and Art History

INDU/INDE 220. CAD I: Digital Design. 3 credits. *Offered fall and spring.*

A studio course introducing computer-aided design experiences. Exploration of CAD, including terms, conventions and drawing techniques from beginning to intermediate concepts to two and three-dimensional tools and commands. Formerly INDU 222.

INDU/INDE 320. CAD II: Digital Design. 3 credits. *Offered fall and spring.*

An intermediate studio course incorporating computer-aided design experience in digital design. Continuation of CAD design processes from the foundation course toward advanced three-dimensional drawing techniques, solid modeling and rendering, lighting theory, plotting, and animation. *Prerequisite: INDU/INDE 220.* Formerly INDU 322.

INDU/INDE 420. CAD III: Digital Design. 3 credits. *Offered fall and spring.*

An advanced studio course expanding computer-aided design knowledge. Continued exploration of the digital virtual space from intermediate to advanced concepts of the design process, communication with diverse design programs, animation, sound and digital transformation. *Prerequisite: INDU/INDE 320.* Formerly INDU 422.

INDU 490. Independent Studies Interior Design. 1-3 credits, repeatable.

Offered fall and spring.

Independent activity, such as research or studio practice, under faculty supervision. Projected studies in any area of the school's offering must be arranged with the instructors who will direct them. Offered only with consent of the instructor.

INDU 491. Studio Assistant. 1-3 credits, repeatable. *Offered fall and spring.*

An on-campus program monitored on an individual basis designed to provide practical studio experience in the visual arts. Students will learn safe studio practices and management skills, including material use, inventory control, and the proper operation of equipment found within various individual classroom studios. *Prerequisites: Permission of the instructor.*

INDU 492. Topics Industrial Design. 3 credits. *Offered fall and spring.*

Study of selected topics in industrial design at the advanced level. May be repeated when course content changes. See e-campus for current topics. Formerly INDU 489.

INDU 496. Internship in Interior Design. 1-8 credits. *Offered fall and spring.*

An off-campus program prepared and monitored on an individual basis. Internships are designed to provide practical experience in the arts. *Prerequisites: Permission of the instructor.* Formerly INDU 495.

Information Analysis

College of Integrated Science and Technology

IA 200. Introduction to National Security Intelligence. 3 credits. *Offered yearly.*

Intelligence analysis is a complex, dynamic process that includes determining the intelligence needs, data collection, pre-processing, analysis and production of the customer's product. This is an introduction to the history, structure and practices of the national security intelligence community (IC). The course is team-oriented, project-based and grounded in the relevant legal and ethical context.

IA/CIS 210. Introduction to Global Competitive Intelligence. 3 credits. *Offered yearly.*

This course will focus on global competitive intelligence (CI): the tools and methods that enhance strategic and tactical decision making in the analysis and interpretation of business data related to current and emerging competitors. The course is team-oriented, project-based and grounded in the relevant legal and ethical context. Not open to students in the College of Business.

IA 261. Hypothesis Testing. 3 credits. *Offered yearly.*

Examines hypothesis testing in national, military, counter, and competitive intelligence. By comparing alternate theories in terms of their explanatory power and predictive success, students will learn the most relevant methods for integrating facts into unified theories, assessing theories, and properly qualifying and reevaluating theories to compensate for risk and uncertainty.

IA 280. Selected Project in Information Analysis. 3 credits. *Offered yearly.*

This course will examine projects of interest to lower-division students in information (intelligence) analysis not otherwise offered in regular course offerings. They are offered only with the approval of the program director and they may be repeated when course content changes. Students should consult with the instructor prior to enrolling in the course. *Prerequisites: Junior standing.*

IA/PHIL 312. Causal Analysis. 3 credits. *Offered yearly.*

Examines causal analysis in national, military, counter, and competitive intelligence. By assessing a factor's amount and kind of efficacy, students will learn the most reliable methods for distinguishing between relevant/irrelevant events and factors, identifying and excluding "pseudo-causes," and anticipating higher order effects of a causal process.

IA/PHIL 313. Counterfactual Reasoning. 3 credits. *Offered yearly.*

Examines counterfactual reasoning in national, military, counter, and competitive intelligence. By analyzing alternate scenarios and their consequences, students will learn the most relevant methods for employing creative thinking in generating, developing, and assessing possibilities; substantiating "after-action" reports, and structuring futures analysis.

IA/PHIL 314. Strategy Assessment. 3 credits. *Offered yearly.*

Examines strategy assessment in national, military, counter, and competitive intelligence. By applying probabilities and goals to potential threats and opportunities (short and long-term), students will learn the most relevant methods for formulating and evaluating possible courses of action, and projecting and explaining actions by assessing an agents' strategic interests and circumstances.

IA 340. Data Mining, Modeling and Knowledge Discovery. 3 credits. *Offered yearly.*

Data mining is the nontrivial extraction of previously unknown and potentially useful information from (large) data sets to help explain current behaviors and anticipate future outcomes. Students will apply data mining and knowledge discovery methods to data sets from business, industry and government. The course is team-oriented, project-based and grounded in the relevant legal and ethical context. *Prerequisites: ISAT 251, ISAT 252.*

IA 341. System Dynamics Modeling, Simulation and Analysis.

3 credits. *Offered yearly.*

System dynamics analysis is a perspective and a set of conceptual and computing tools to help us understand the structure and dynamics of complex systems. This course will apply system dynamics analysis to complex systems (problems) that involve the interplay of physical and social-political factors. The course is team-oriented, project-based and grounded in the relevant legal and ethical context. *Prerequisites: ISAT 251, ISAT 252.*

IA 342. Visualization Methods, Technologies and Tools for

Information Analysis. 3 credits. *Offered yearly.*

Data visualization presents laboratory or simulation data or the results from sensors out in the field in a way that aids reasoning about and hypothesis building in complex data sets. This course will apply data visualization technologies and tools to timely data sets from business, industry and government. The course is team-oriented, project-based and grounded in the relevant legal and ethical context. *Prerequisites: ISAT 251, ISAT 252.*

IA 400. Cognitive Science and Information Analysis. 3 credits. *Offered yearly.*

Cognitive science examines a wide range of mind/brain processes, including thinking, learning, language acquisition, pattern recognition, memory, creativity, volition, etc. This course will take an information processing systems approach to study cognitive processes that comprise information analysis. The course is team-oriented, project-based and grounded in the relevant legal and ethical context. *Prerequisites: ISAT 251, ISAT 252, IA 340 and either IA 341 or IA 342.*