
will be a service learning dimension as well. This course is limited to honors students. Prerequisite: Junior standing and honors program.

GS 4900 (PS 4900). The United States and the Post-Cold War World (3)

This course examines the end of the Cold War and the issues and responsibilities that confront the

United States and the American people in the post-Cold War world. Special attention is given to developments in the republics of the former Soviet Union and the triangular relationship between the United States, Europe, and the Pacific Rim. (SRII or SRI)

DEPARTMENT OF HISTORY (HS)

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|----------------------------|---|
| <i>Professor</i> | Genevieve Robinson, O.S.B., Ph.D. |
| <i>Associate Professor</i> | Rev. Edward K. Burger, S.J., Ph.D. Richard J. Janet, Ph.D. (Chair) |
| <i>Assistant Professor</i> | Faith Childress, Ph.D. Thomas Ward, Ph.D. |
| <i>Lecturer</i> | W. Joseph Fossati, Ph.D. |

History is the study and interpretation of recorded past events. It is a rich and complex discipline which attracts students for a variety of reasons. As Roland Stromberg suggests, "People read history for enjoyment, instruction, orientation, stimulation, inspiration, and even therapy; they study the record of past events to broaden their horizons, sharpen their critical sense, find their roots, strengthen their pride, criticize their society, discover other societies; they turn to history out of boredom, curiosity, discontent, piety."

A well-conducted study of history affords new perspectives on the human condition and provides the truly curious intellect with a method and perspective for the study of human civilization in all its triumphs and failures. Student historians grow intellectually and personally as they formulate questions and suggest answers to the most persistent of human problems in light of a history of cultural development. Such study requires the cultivation of the skills of critical thinking and analysis, problem-solving, and communication.

Rockhurst alumni have translated the skills acquired in their history major into a variety of significant fields and positions in government, education, business, and the professions.

Major Field of Concentration

The major concentration in history consists of 21 semester hours of upper-division work, including the required HS 4000 Colloquium on the Great Historians, and HS 4900 Senior Seminar in History. Also required are 12 semester hours of related upper-division courses chosen under the direction of the major advisor. The student should consult closely with the history department chair in arranging the major program of study.

Lower-division prerequisites for the history major include: HS 1100 or HS 1701, and HS 1500 or HS 1702; or HU 1110/1210 and HU 1120/1220. HS 2100 and HS 2500 are also required. Also required are two semesters of college-level study in one language other than English. This requirement may be fulfilled by completing two semesters of college-level literature in one language other than English. In either case, the language courses must be taken for college-level credit. [Neither College Level Examination Program

(CLEP) nor Advanced Placement (AP) exams fulfill this requirement.] A grade of C or better is required in each upper-division course of the major. (A grade of C- will not satisfy the requirement.)

Minor Field of Concentration

The minor program consists of 18 credit hours of history. Students are required to take the historical modal core requirement of a Western or World Civilization survey course plus an additional lower-division survey course and 12 hours of upper-division electives with grades of C or better. (A grade of C- will not satisfy the requirement.) The student should consult closely with the history department chair in arranging the minor program of study.

HS 1100. Survey of Western Civilization I (3) *Fall and Spring semester*

An introduction to various themes in the history of western civilization from the rise of Egypt to the Renaissance and Reformation. Students examine the development of western ideas and society in their formative periods and are exposed to a number of the most significant peoples, works, events, ideas, and institutions in the western tradition. (HSI)

HS 1500. Survey of Western Civilization II (3) *Fall and Spring semester*

An introduction to various themes in the history of western civilization from the 17th century to the present. This course examines such developments as the rise of the modern nation state, the French and Industrial Revolutions, the influence of 19th century liberalism and nationalism, World Wars I and II, and contemporary society and culture. Students are introduced to some of the major ideas, events, and personalities in the modern era and to the value of the historical perspective in considering the human condition. (HSI)

HS 1701. World Civilizations to the 17th Century (3)

This course will survey the growth and development of world civilizations and history from the earliest times until the emergence of new global European dominance in the seventeenth century. This period was one during which world civilizations were generally equal and interdependent. It was an exciting time that saw the initial development of systems such as politics, economy, religion, culture, and education that have played such an important role in shaping the world of today. These changes will be examined in detail over the wide chronological and geographical scope of world civilizations. (HSI)

HS 1702. World Civilizations since 1492 (3)

This course examines the history and diverse cultures of the world since ca. 1492 – the era of the rise of European political, economic, and cultural worldwide dominance – until the present day. It is

organized chronologically and thematically. Themes include the individual and society, world economics and politics, and racism, nationalism, and internationalism. (HSI)

HS 2100. History of the United States I (3) *Fall and Spring semester*

A survey of the history of the United States from the age of Columbus to Reconstruction. Special emphasis is placed on the causes of the Revolution, constitutional foundations, westward movement, and the Civil War crisis. (HSII)

HS 2500. History of the United States II (3) *Fall and Spring semester*

A survey of the history of the United States from Reconstruction to the present. Themes include industrial development, immigration, the Depression, the World Wars, and the development of contemporary American society and culture. (HSII)

HS 3000. Ancient History (3)

Topics include the origins of civilization in Mesopotamia and Egypt, the Hebrews and Judaism, Homeric Greece, the Spartan Way, Periclean Athens, Alexander the Great and the Hellenistic Age, Rome under the Republic, the Augustan Age, the decline and fall of the Roman Empire, early Christianity. (HSII)

HS 3050. Medieval History (3)

Topics include Christianity in the late Roman Empire, the barbarian invaders, Byzantium, Islam, the Carolingian Empire, feudalism, manorialism, revival of town life, monasticism, the Crusades, the university, the cathedral, the Investiture Controversy, the English Parliament, the Black Death, the Hundred Years' War. (HSII)

HS 3100. Renaissance and Reformation (3)

Topics include humanism, art, and literature in Italy and northern Europe; the voyages of discovery; the causes of the Reformation; Luther, Calvin, Henry VIII; the radical reformers; the Catholic Counter-Reformation; the Council of Trent; the Society of Jesus; the Wars of Religion. (HSII)

- HS 3150. Early Modern Europe** (3)
Topics include the Thirty Years' War; the Age of Absolutism; mercantilism; the Scientific Revolution; the English Civil War; the Age of Reason; Enlightened Despotism; France on the eve of the Revolution. (HSII)
- HS 3180. Europe in the Age of Revolution, 1776-1870** (3)
This course reviews events and developments in Europe during an era marked by popular revolutions and reform movements. Topics addressed include the 18th century American and French Revolutions, the rule of Napoleon, the Congress of Vienna and its aftermath, the Irish nationalist movement from the Revolution of 1798 to the Fenian uprising of 1867, the Revolutions of 1830, the Great Reform Act and the Chartist movement in Britain, the Revolutions of 1848, and the course and consequences of the Industrial Revolution. (HSII)
- HS 3200. Europe in the Age of Nationalism, 1870-1945** (3)
This course reviews events and developments in Europe in an era dominated by the influences of popular nationalism. Topics include national unification of Italy and Germany, the rise of European alliance systems, the Second Industrial Revolution, the New Imperialism, the First World War and Russian Revolution, the Depression, the rise of totalitarian regimes, and the Second World War. (HSII)
- HS 3250. Europe Since 1945** (3)
This course deals exclusively with events after 1945 while reviewing the problems attached to the study of contemporary history. Topics include the post-war political and economic reconstruction of Europe, the origins and course of the Cold War, the emergence of the welfare state, the decline of colonialism, the student revolts of 1968, the economic difficulties of the 1970s, the fall of Communism in eastern Europe, the reunification of Germany, and prospects for greater European unity. (HSII)
- HS 3320. History of Modern Britain** (3)
A survey of British history from 1714 to the present with special emphasis on the development of Parliamentary government and political reform, the creation of a colonial empire and its demise, the social and economic effects of industrialization, prominent developments in British thought, culture and religion, the relationship of Britain and Ireland, and the contemporary state of the United Kingdom. (HSII)
- HS 3420. The French Revolution and Napoleon** (3)
A close survey of events in the history of late 18th and early 19th century France, this course examines the causes, course and consequences of the French Revolution and the career of Napoleon Bonaparte. Topics include the nature of *ancien regime* French society and politics, the events and personalities of the Revolution, the military and domestic reforms of the Napoleonic Empire, and the effects of these events on the subsequent course of western history. (HSII)
- HS 3440. Modern France** (3)
A survey of French history since 1815, focusing on the problems confronting post-Revolutionary France in politics and government, society and the economy, thought and culture. Topics discussed include the Revolutions of 1830 and 1848, Louis Napoleon and the Second Empire, the Dreyfus Affair and the fortunes of the Third Republic, World Wars I and II, postwar France and developments in French thought and culture since 1815. (HSII)
- HS 3480. Emergence of Modern Germany** (3)
A survey of German history since 1648, concentrating on problems of political and cultural unity. Topics include the rise of Prussia, the rivalry of Prussia and Austria, Bismarck and German unification, World War I, the Weimar Republic, Hitler and the Nazi state, World War II, the Cold War and the East-West split, the recent East German revolution and the reunification of Germany. (HSII)
- HS 3550. Modern Russia** (3)
From Catherine the Great to the present, stressing domestic affairs, with emphasis on peasants and peasant reforms, the Duma, religion, Russo-Polish relations, the Russian Revolution, World War I and II, the Cold War and the fall of the Soviet Union.
- HS 3600. Colonial America** (3)
The history of North America up to the 1770s, including an examination of pre-Columbian Native societies, the exploration and invasion of the continent by Europeans and the resulting different patterns among the Spanish, French, and English colonizers of their own colonial development and of their relations with Native peoples. Developing patterns of the the thirteen colonies which rebelled from Britain in the 1770s is another area of particular focus. Social, political, economic, constitutional, cultural, religious, gender, and geographic factors are considered. (HSII)
- HS 3650. Civil War and Reconstruction** (3)
The history of the United States from 1845 to 1877. It concentrates on the constitutional, political, economic and social factors of the sectional conflict between North and South, the War Years and the reshaping of Reconstruction. (HSII)
- HS 3660. The American West** (3)
This course traces the impact of the frontier experience on the development of American traditions and institutions. Some of the topics to be explored are cultural, economic, and political institutions;

the Native American presence, life on the Kansas plains, the western town, Texas annexation, and the Oregon occupation.

HS 3670. Native American History (3)

An exploration of the history and culture of indigenous peoples in North America both before and after contact with Europeans and Africans, to the modern era. The variations in cultures, pattern of development, and patterns of relations with the Spanish, French, English, and with the U.S. government, are major topics within the course. A major goal is to see history “from the other side”—from a Native perspective—to understand Indian people’s actions, motivations, viewpoints, and reactions. (HSII)

HS 3680. The American South (3)

This course deals with the unique political, social, economic, and cultural characteristics of the American South, and the impact which this region has had on the development of the United States and American society. Topics will include: Native Peoples of the American South; Albion’s Seed: English Virginia; Africans in America: Slavery and Southern Culture; the Colonial Economy: Tobacco, Rice and Sugar; Religion in the Colonial South; the American Revolution in the South; King Cotton and the Rise of Southern Nationalism; Sectionalism and Civil War; Reconstructionism and Redemption; the First “New South”; Jim Crow; Tenancy and Debt Peonage; WWII: the War that Drove Old Dixie Down?; the Civil Rights Movement; the “New” New South: The Sunbelt’s Economic Miracle and Political Influence. (HSII)

HS 3690. Modern America (3)

Changing social and economic orders, World War I and aftermath, the postwar decade, the Depression, the New Deal, World War II, postwar domestic and diplomatic problems. (HSII)

HS 3700. The United States Since 1945 (3)

The course is a study of the development of America’s social, cultural, and political history since World War II, beginning with Harry Truman’s presidency to the administration of Ronald Reagan and the politics of the 1980s. Topics explored are the United States as a post-war power, McCarthyism, Cold War politics, the civil rights movements (ethnic, racial, and gender), the Great Society, Vietnam, counterculture, Watergate, and the New Right. (HSII)

HS 3750. The United States and Vietnam, 1950-1975 (3)

A survey of the United States’ presence in Vietnam and what became America’s longest war. The course provides a brief background of France in Southeast Asia, then it examines America’s earliest involvement in the region and the resultant war between South and North Vietnam and the United States’ participation in the conflict. (HSII)

HS 3800. The Immigrants’ Experiences in America (3)

A survey of the history of immigration to the United States. The course examines the impact of immigration on American society and culture. Several groups are studied in some detail as the topics of family, the workplace, urban politics, nativism, religion, and assimilation are explored. Kansas City’s immigrant groups are used as a laboratory. (HSII)

HS 3810. History of Women in America (3)

This course introduces and examines the various conditions and factors affecting the female experience in North America from pre-Columbian Native societies to the modern setting. Important issues of this history from a gender perspective include ideology, gender economics, the legal status of women compared to that of men, involvement of women in institutions such as churches and schools. Other variables which are considered are ethnicity, class, and geographic differences. (HSII)

HS 3820. Urban America (3)

This course explores the significance of the city to the people and the nation. Some topics studied are urban growth, the neighborhood, urban reform, politics, the workplace, racial composition, and the Sunbelt phenomenon. (HSII)

HS 3892. The History of African Americans since the Civil War (3)

A survey of the history of African Americans since the Civil War, this course examines the social, economic, and political patterns of the lives of African American women and men as they sought to shape their presence in the United States following the war between the North and the South. Some of the topics to be discussed are the Great Migration, the church in the African American experience, migration to the urban north, the Harlem Renaissance, the industrial age, and the civil rights movement. (HSII)

HS 3895. History of Latin America (3)

This course deals with the development of contemporary Latin America by exploring the region’s complex history from the colonial era to the present. Topics will include: European expansion and the treatment of Native Americans; Colonial economy and society; Race in colonial Latin America; the Church in colonial Latin America; the Caribbean; Portuguese Brazil; the Bourbon Reforms; Independence from Europe; the Rise of the Caudillos; U.S.-Mexican War; Neocolonialism; 19th century society and culture; the Mexican Revolution; Economy and society in modern Latin America; Peron’s Argentina; Castro and Cuba; Religion in modern Latin America; 20th century Military Dictatorships; the U.S. and Latin America; Latin America in the 21st century. (HSII)

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- HS 3900. Modern China and Japan** (3)
 A survey of Chinese and Japanese development from the Manchu and Tokugawa periods of the 15th century to the present, stressing traditional domestic policies, confrontation with the West, participation in World War I and II, revolution and the current status of both Asian countries.
- HS 3912. History of Modern Middle East** (3)
 This course is an introduction to the history and civilization of the modern Middle East since ca. 1600. Considerable attention is devoted to the region since 1945 and to the problems and prospects of the present day. Topics covered include a brief survey of the early history of the region, the origins of Islam, the renaissance of Middle Eastern culture in the 18th and 19th centuries, the move toward independent states in the 19th and 20th centuries, and resurgent “Islamist” and “Pan-Arabist” ideologies of this century. (HSII)
- HS 3920. Modern South Asia** (3)
 This course will survey the history of the nations of modern South Asia – that is, the history of the contemporary nations of India, Pakistan, Bangladesh, Nepal, Sri Lanka, Bhutan, and Myanmar (Burma) – in the years since 1600. While much of the course will focus on pre-1947 India, attention will also be given to the post-independence period and to other nations. The thematic emphases will be on the collapse of the pre-European Mughal Empire, the establishment of British imperial rule in the Indian subcontinent, the growing opposition to that rule which culminated in independence in 1947, and the establishment and maintenance of the modern nation-states of the subcontinent. (HSII)
- HS 3922. Nationalism in the Middle East** (3)
 This course will examine the history and diverse development of nationalism(s) in the Middle East beginning in the second half of the nineteenth century and continuing to the present day. Nationalism in the Middle East is one of the most important issues in the contemporary world as evidenced by the controversies over Palestinian statehood and the attempts of expansionist nationalism by Iraq in the 1990s. After considering various theories of nationalism and their applicability to the Middle East, the course will address nationalism as manifested in the region with particular reference to Arab, Turkish, and Iranian nationalisms. (HSII)
- HS 4000. Colloquium on the Great Historians** (2)
 An introduction to the theory and practice of the historian’s craft, this course reviews acknowledged masterpieces of historiography and examines important issues raised in the writing of history. Readings in the great historians are supplemented by consideration of such topics as the nature of history and the problems of historical causation, objectivity and use encountered by historians. Required for history majors.
- HS 4100. History as Biography** (3)
 This course examines the lives and historical impact of selected individuals who have significantly influenced the history of western civilization, or who have embodied much that is representative of the periods in which they lived. Concomitantly, the student is introduced to several varieties of historical interpretation, using both primary and secondary sources.
- HS 4900. Senior Seminar in History** (1)
 A one credit-hour seminar on research methods in history including regular presentations and discussion of issues and problems in historical research and the completion of a major research paper, conducted under the supervision of a history department faculty member and presented orally near the end of the semester. Required for history majors.
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HUMAN SERVICE AGENCY ADMINISTRATION (HA)

Program Director Amy Mulligan, M.S.A.

Human Service Agency Administration courses are designed to provide students with the foundation and professional development competencies which contribute to successful careers and leadership roles with nonprofit youth and human service agencies. Emphasis is placed upon the practical day-to-day application of such skills through service learning and an internship program. Courses are taught by youth and human service agency professionals who have a current working knowledge of the field.

Rockhurst University is one of eighty colleges and universities affiliated with American Humanics, Inc. The American Humanics program prepares and certifies undergraduates for professional careers and leadership roles with nonprofit youth and human service organizations. American Humanics' national nonprofit partners (American Red Cross, The Arc, America's Second Harvest, Big Brothers Big Sisters, Boy Scouts, Boys and Girls Clubs, Camp Fire USA, Catholic Charities, Easter Seals, Girl Scouts, Girls Inc., Junior Achievement, March of Dimes, National Urban League, Special Olympics, United Way, Volunteers of America, YMCA, YWCA) represent an excellent job market for people who wish to work in the social sector. Individuals interested in this career field will find their education enhanced by the curriculum and by American Humanics co-curricular activities. Additional support services include career counseling, internship and career placement assistance and supplemental financial aid. (American Humanics certification requires completion of a baccalaureate degree.)

Minor Field of Concentration

No major is offered in Human Service Agency Administration. The minor prerequisite is HA 1110. Required upper-division courses are HA 3000, HA 3020, HA 3050, and HA 3070.

HA 1110. Introduction to Human Service Agencies (3)

An overview of the nonprofit sector and the role of philanthropy in American society. Emphasis is placed upon the study of various roles of human service professionals and volunteer leaders, and understanding of the Jesuit ideal of developing leaders in service for others. Study focuses on ethical, moral and practical issues in nonprofit management and leadership. Service-learning projects enable students to apply knowledge in the field and assist students in developing a plan of action for their continued personal and professional development.

HA 1120. Youth Group Work (3)

A comprehensive overview of Total Quality Program Planning, group work dynamics, youth development issues, program implementation, and methods of evaluation. Emphasis is placed upon demonstrating respect for the cultural, physical, religious, and personal differences present within individuals and in various group settings. Students learn leadership skills needed to impact change with individuals, groups and the community.

HA 1970. Human Service Agency Practicum (1)

A supervised, 50-hour volunteer placement with a nonprofit youth and human service agency. The practicum experience provides an ideal opportunity for students to gain skill and knowledge in areas not possible through other course work and co-curricular activities. Reflection activities enable the student to process the experience and connect fieldwork with curricular concepts and themes.

HA 3000. Administration of Human Service Agencies (3)

A comprehensive analysis of the role and function of a human service agency professional in the management process of a human service agency. Management, administration and supervision skills and techniques are assessed for human service agency operations in the area of planning, staffing, personnel selection and policies, volunteer committees, executive board, community relationships and fundraising.

HA 3020. Marketing for Nonprofit Organizations (3)

A study of the fundamentals of marketing in a nonprofit setting through readings, class lectures and discussion, and a service learning project. Students learn essential elements of effective organizational marketing; these fundamentals are then applied in a real life setting as teams of students develop a marketing plan for a nonprofit. Educational outcomes include the development of marketing goals and position statements, the conducting of a marketing audit, development of marketing and promotion plans, and the design of market research plans.

HA 3050. Financing Human Services (3)

An introduction to the principles of philanthropy and fund raising which apply to the management of a nonprofit agency. Knowledge of the sources of philanthropic gifts, causes that receive support, motivations that influence giving, the elements of a case for support, the essentials of strategic planning and the construction of budgets and related fund raising targets. Emphasis is placed upon the human behavior aspects of philanthropy and volunteerism.

HA 3070. Community Organization for Social Welfare (3)

A study of communities and their potential needs as well as meeting the needs of individuals and groups through organization and planning. Emphasis is placed upon the study of youth agencies and institutions within the community that relate themselves to national, state and community programs of welfare, recreation, education, character and citizenship training.

HA 3500. Fund Raising and the Development Professional (1)

A comprehensive overview of the fundraising profession and the fundamentals of development, offering state-of-the-art information and techniques in fundraising. Utilizing experiential techniques, case studies, and group and individual projects, the

course covers planning for successful fundraising; integrated development programs; annual giving; securing major gifts; obtaining grant support; role of volunteers, board members and CEOs; and managing development office operations.

HA 4970. Professional Field Experience (3)

A supervised, 300-hour internship with a nonprofit youth and human service agency. The internship provides the student an opportunity to apply classroom knowledge to the work world; develop valuable contacts in the field; analyze his or her commitment to the field while it is still relatively easy to change; identify technical and/or theoretical competencies that need further development; and assume professional responsibilities for substantive tasks.

INDUSTRIAL RELATIONS (IR)

Associate Professor Peter D. Nugent, Ph.D. (Chair)

Industrial Relations is the interdisciplinary study of work and the employment relationship. It draws from the disciplines of psychology, economics, law, history, political science, sociology and history. Students are taught to examine specific problems or issues about work, using approaches from several disciplines.

Major Field of Concentration

The B.A. in Industrial Relations requires 18 hours of upper-division course work, including IR 4800. Twelve additional upper-division hours in related disciplines are also required for the baccalaureate. Lower division requirements are IR 1000, PY 1000, and PY 2100 (or equivalent). Students going on to graduate school should take microeconomics. A grade of C or better is required in each upper-division course of the major. (A grade of C- will not satisfy this requirement.)

Minor Field of Concentration

The minor in Industrial Relations requires 12 hours of upper-division coursework, including IR 3000, IR 4600, either IR 4200 or IR 4400, and one of the following: IR 3200, IR 4000, IR 4100. A grade of C or better is required in each upper-division course of the minor. (A grade of C- will not satisfy this requirement.)

IR 1000. Work in America (3)

This is an introductory course which examines the social, political and economic aspects of work in our society. Issues such as work ethics and motivation theories, wage determination, race and gender discrimination, American population and labor force projections, and the increasing government involvement in the employment relationship are examined. (SRI)

IR 3000. Employment Law I (3)

An examination of the employment laws and regulations concerning equal employment opportunity (Title VII, ADEA, Equal Pay Act, Civil Rights Act of 1991, ADA). The student receives a working knowledge of the statutory provisions of the law, which is then compared to the current cases law. Any employment-related laws other than those

dealing with race, color, creed, sex, national origin, age and handicap discrimination are covered in IR 3100. Prerequisite: IR 1000.

IR 3100. Employment Law II (3)

This course focuses on those employment laws not directly related to employment discrimination. Worker's compensation laws, labor laws, OSHA, ERISA, FLSA, the Family Leave Act and privacy and related workplace legislation and their application in the private sector are covered. Prerequisites: IR 1000 and IR 3000.

IR 3200 (PY 3200). Psychological Assessment (3)

This course deals with psychological assessment in clinical, educational, business and other settings. Included topics are methods of evaluating tests and procedures for administering, scoring and interpreting performance. During laboratory periods students have first hand experience with a wide variety of tests and practice the skills underlying effective use of assessment procedures. Lab fee. Prerequisites: PY 1000 and PY 2100.

IR 4000. The American Labor Force (3)

This course is part of a three-course sequence which addresses issues surrounding the American labor force in the 21st century. Specifically this course focuses on population demographics, immigration issues, occupational trends, economic change and globalization as they affect the American labor force and the world of work in the 21st century.

IR 4010. Women and Work (3)

This course is part of a three-course sequence which addresses issues surrounding the American labor force in the 21st century. Specifically this course focuses on the role of women in the labor force. Among the topics and issues which will be explored are trends and projections for female participation rates in the coming decades, childcare issues, the Family and Medical Leave Act, employment discrimination law and women, the Glass ceiling and a women's economic returns to education.

IR 4020. Labor Force Diversity (3)

This course is part of a three-course sequence which addresses issues surrounding the American labor force in the 21st century. Specifically this course focuses on increasing importance of minorities and diversity in the American labor force. Among the issues which will be examined are labor force trends, minority groups, terminology of diversity, language and educational issues, new immigration and old immigration, North American Free Trade Agreement (NAFTA) and the Mexican national.

IR 4200. Human Resource Management (3)

The emphasis of this course is placed upon the development of a sound foundation in fundamental theory and practice of human resource management. Specific topics covered include employee recruitment and selection, training and development of human capital, performance appraisals, basic compensation policy and techniques, collective bargaining, and working with a changing labor force. Prerequisite: IR 1000.

IR 4300. Labor Relations (3)

This is a study of the unionized sector of the labor force, focusing on collective bargaining and dispute settlement processes. Topics covered include labor law, the negotiation process, enforcement of contractual agreements, grievance procedures, the government's role in labor relations, and recent trends in organized labor. Prerequisite: IR 1000.

IR 4400. Compensation, Theory and Practice (3)

The theories and practices underlying the development of an effective compensation program are the foci of this course. Among the topics covered are the current labor force changes and their impact on wages and benefits, economic and psychological theories of individual behaviors, the applied compensation practices of job analysis, job descriptions, job evaluation and establishment of the pay structure through wage survey techniques. Prerequisites: IR 1000 and EC 2000 or EC 2100.

IR 4600. Technology and Change (3)

One of the characteristics of contemporary society has been the increasing rate of technological change and its impact on the world of work. This course examines those significant mileposts in the recent history of technology which have shaped the modern workplace and our expectations. From this historical basis the possible impact on workers and the society of current and projected technological changes is assessed. Prerequisites: IR 1000.

IR 4800. Research Methods in Industrial Relations (3)

The application of social science research methods in the context of work related issues and problems is the focus of this course. Research design and application is an integral part of the course. This course serves as the capstone course for the BA in IR degree. Prerequisites: IR 1000, statistics. Senior standing.

INTEGRATED HUMANITIES (HU)

Professor Joseph A. Cirincione, Ph.D. (Division Chair)

HU 1110 and HU 1120.

Integrated Humanities I, II (4)

Fall (HU 1110); Spring semester (HU 1120)

A level one interdisciplinary sequence focusing on significant epochs from Classical Greece to the Twentieth Century as expressed in the primary texts and works of the culture: artistic, historical, literary, and philosophical. An additional component provides the opportunity for students to attend co-curricular events and productions which are relevant to the course. (Enrollment in both

semesters is necessary to satisfy ARI, HSI, and LTI core curriculum requirements.)

HU 1210 and HU 1220.

Honors Integrated Humanities I, II (4)

Fall (HU 1210); Spring semester (HU 1220)

The Honors version of Integrated Humanities I and II includes HU 1110 and HU 1120. Additionally, the Honors version provides students the opportunity to discuss related readings in a seminar setting. (ARI, HSI, and LTI can be satisfied by taking both HU 1210 and HU 1220.)

JOURNALISM (JN)

(Department of Communication and Fine Arts)

Assistant Professor Michael K. McDonald, Ph.D. (Chair)

Associate Professor William J. Ryan, M.A.

Journalism courses at Rockhurst University afford students the opportunity to acquire basic skills and a sound preparation for either direct entry into the field or further work at the graduate level. Most courses are taught by professional journalists. Students interested in a career in journalism may complete the minor in journalism through the courses listed below. A description of the International Journalism Program may be found under Classical and Modern Languages. One-semester part-time internships are available to give students introductory on-the-job experience. A writing sample which indicates college-level proficiency is required for acceptance into the journalism program.

Minor Field of Concentration

The prerequisites for the minor in journalism are: AR 1400 Basic Photography or JN 3450, CT 2200 Mass Communication, and JN 2000.

Four upper-division courses must be selected from the following list: CT 4890 Seminar in Mass Media, JN 3000, JN 3030, JN 3050, JN 4170, or JN 4180.

A grade of C or better is required in each upper-division course of the minor. (A grade of C- will not satisfy the requirement.)

JN 1030. Publications: Newspaper (1)

Fall and Spring semester

Practice in actual newspaper production. Includes writing of news stories, features and editorials; copy editing and rewriting, layout and preparation of camera-ready copy for press. Maximum credit hours possible: 6. Prerequisites: membership on

college newspaper staff and department approval. (Activity course)

JN 1040. Publications: Yearbook (1)

Practice in actual book publication includes copywriting, photography, layout and preparation of camera-ready material for the press. Maximum credit hours possible: 6. Prerequisites: membership

on yearbook staff and adviser approval. (Activity course)

JN 2000. Introduction to Journalism (3)
Fall semester

This course is required as a prerequisite for subsequent journalism courses. It provides a basic survey of the field and instruction in the fundamentals of journalistic writing, interviewing, and editing. Journalism ethics and libel law are included. Prerequisite: Core writing proficiency required.

JN 3000. Advanced Reporting (3)

Building upon the skills acquired in JN 2000, this course involves theory and practice in writing the longer news story and other types of journalistic writing. It includes interviewing, research, and in-depth coverage. Prerequisite: JN 2000.

JN 3030. Feature Writing (3)

Study of the various forms of feature writing and practice in the same. Included are human interest, personal profiles, news features, as well as features in social, political, educational and urban affairs. Prerequisite: JN 2000.

JN 3050. Editing and Design (3)

Theory and practice in editing copy, writing headlines and designing the layout of newspapers and magazines. Design theory and typography styles are included. Prerequisite: JN 2000.

JN 3450 (AR 3450). Photojournalism (3)

This course explores the ability of photography to record news events, stories of human interest, and contemporary social issues. Photographic techniques with 35mm Black-and-White film and

printing is introduced and reviewed. The analysis and criticism of images, the editing of photos and text, and the creation of narrative through the combination of word and image are primary areas explored. In addition, ethical and legal issues in photojournalism are introduced and examined. A 35mm, fully adjustable, single lens reflex (SLR) camera is required. Lab fee. Prerequisite: AR 1400 or JN 2000 or instructor approval.

JN 4170 (CT 4170). Advertising Copywriting (3)

A course in the conception and execution of creative, effective advertising for newspapers, magazines, radio and television. Includes a general survey of the field of advertising. Case studies, prizewinning advertisements and field trips may be included. Prerequisite: CT 2200 Mass Communication or JN 2000 or MK 3000 Principles of Marketing.

JN 4180 (CT 4180). Broadcast Journalism (3)

A course in gathering, writing and producing news for radio and television. Included are skills in interviewing, editing news for broadcast and identifying news sources. Special problems unique to broadcast journalism are discussed. Prerequisites: CT 2200 and JN 2000.

JN 4970. Journalism Internship (2-3)

Opportunities to work in magazine, newspaper, radio, television and World Wide Web site journalism. Prerequisites: Junior standing, a 3.0 GPA in the student's major, JN 2000, two upper-division journalism courses related to the specific internships, and internship faculty advisor approval.

MATHEMATICS (MT)

(Department of Mathematics, Computer Science and Physics)

Professor Merrill B. Goldberg, Ph.D.

Robert F. Hegarty, Ph.D.

John G. Koelzer, M.S.

Anita Salem, M.A.

Associate Professor Keith Brandt, Ph.D.

Daryl D. George, Ph.D.

Paula M. Shorter, Ph.D. (Chair)

The mathematics program at Rockhurst University provides a set of courses ranging from theoretical to the applied to meet the professional and graduate school needs of mathematics majors. The mathematics program is also committed to providing relevant and practical mathematics courses to satisfy the University's proficiency requirement and to support coursework in other disciplines.

There are many career paths open to students graduating with a degree in mathematics. Some of the fields that students may choose upon graduation are: teaching and theoretical research in mathematics; scientific work; theoretical computer science work; business problem-solving through operations research; and management of risks through actuarial work.

Major Field of Concentration

The major in mathematics requires the following specific courses: three semesters of calculus (MT 1800, MT 1810, MT 2800), MT 3800 and MT 3810, and MT 4960 (a one-credit mathematics seminar). A student should normally complete all of these required courses (except for the seminar) before the junior year. Beyond these required courses, the student will take additional courses to total at least 18 upper-division hours of mathematics beyond the calculus sequence and 12 upper-division hours in a related area or areas. Included in the upper-division mathematics courses must be at least one theoretical course selected from MT 3600, MT 4350, MT 4900, MT 4920, or MT 4930. Students should consult with the faculty adviser in selecting courses. A grade of C or better is required in each upper-division course counted toward fulfillment of the major requirements. (A grade of C- will not satisfy this requirement.)

Minor Field of Concentration

The student may choose between two tracks for a mathematics minor. Students majoring in physics complete, and can apply for, a mathematics minor under the applied mathematics track. A grade of C or better is required in each upper-division course counted toward fulfillment of the minor requirements. (A grade of C- will not satisfy this requirement.)

1. **Classical mathematics track:** The student must take MT 2800, MT 3800, MT 3810, and at least two additional 3000- or 4000-level three-credit-hour MT courses.
2. **Applied mathematics track:** The student must take MT 2800 and MT 3810, plus MT 3530 or MT 3710, in addition to at least two more 3000- or 4000-level three-credit-hour MT courses.

MT 0100. Algebra (3)
Fall and Spring semester

Linear equations, systems of equations, graphs, polynomials, fractional expressions and equations, quadratic equations and functions, inequalities, exponents, powers and roots. Provides the background necessary for either MT 1030 or MT 1190. Prerequisites: two years of mathematics in grades 9-12 (including at least one year of algebra) and appropriate ACT math score or math placement test score.

MT 1030. Finite Mathematics (3)
Fall and Spring semester

A college-level math course based on a background in algebra presenting mathematical techniques to solve a variety of problems. Topics may include: linear equations and inequalities, including optimization through linear programming; mathematics of finance including compound interest; discrete probability based on counting methods, condi-

tional probability; expected value and descriptive statistics. Prerequisites: at least three years of mathematics in grades 9-12 and appropriate placement test score, or MT 0100. (MTP)

MT 1040. Accelerated Finite Math (1)

Covers the topics of MT 1030 more rapidly for those students who have studied most of them in earlier mathematics courses. See course description for MT 1030 above. Prerequisites: at least three years of mathematics in grades 9-12 and ACT Math score of 25 or higher.

MT 1090. Calculus for Business (3)

An introductory calculus course primarily for the business student. Introduction to derivatives and integrals with emphasis on such business applications as demand functions, cost curves, elasticity of demand and economic order quantity. NOTE: MT 1090 does not prepare a student to continue with additional calculus; students wishing a deeper study of calculus should pursue the regular calculus

sequence beginning with MT 1800. Prerequisite: MT 1030 or instructor approval. (MTP)

MT 1140. Mathematics for Elementary School Teachers (3)

Spring semester

A study of mathematics topics the elementary school teacher is likely to teach, with an emphasis on the problem-solving approach. Topics include structure of the real number system, sets and relations, number theory, operations involving rational and irrational numbers, introductory geometry, concepts of measurement and the metric system. Restricted to Elementary Education majors. Prerequisite: MT 0100 or HS equivalent.

MT 1190. Precalculus (4)

Fall and Spring semester

A review of high school algebra followed by additional topics to prepare a student to study calculus including logarithms, exponential functions, trigonometry, permutations, combinations, probability, systems of linear equations, conic sections and graphs. Prerequisite: two years of high school algebra or MT 0100. (MTP)

MT 1510. Discrete Structures (4)

Spring semester

The major topics of study include functions, relations, sets, propositional and predicate logic, proof techniques, elementary combinatorics and discrete probability concepts. Prerequisite: MT 1190. (MTP)

MT 1800. Calculus I (4)

Fall and Spring semester

The derivative, curve sketching, maxima and minima, velocity and acceleration, trigonometric and exponential functions, integration, inverse functions and logarithms. Prerequisites: at least three years of mathematics in grades 9-12 and appropriate placement test scores or a grade of C or better in either MT 1190 or MT 1510. (MTP)

MT 1810. Calculus II (4)

Fall and Spring semester

The integral, applications of the integral (including area, volume, center of mass, continuous probability), techniques of integration, first-order differential equations, sequences and series. Prerequisite: A grade of C or better in MT 1800. (MTP)

MT 2420. Actuarial Science Practicum I (1)

This course is aimed at students who are interested in pursuing a career in actuarial science. It is designed to give them experience and practice with the types of problems encountered on the first examination in the series of Society of Actuaries exams. Prerequisites: MT 2800 and MT 3810.

MT 2430. Actuarial Science Practicum II (1)

This course is designed to give students experience and practice with the types of problems encountered on the second examination in the series of

Society of Actuaries exams. Prerequisites: MT 3400 and MT 3410.

MT 2800. Calculus III (4)

Fall semester

Improper integrals, analytic geometry, polar coordinates, functions of several variables, higher partial derivatives, vector operations and multiple integrals. Prerequisite: A grade of C or better in MT 1810. (MTP)

MT 3400. Probability and Statistics I (3)

Fall semester of even-numbered calendar year

Basic probability theory, counting techniques, discrete random variables and probability distributions, probability distribution functions, cumulative distribution functions, expected value, conditional probability and independence, Tchebysheff's theorem, statistical inference, confidence intervals, hypothesis testing, regression analysis and applications in physical and social sciences. Prerequisite: MT 1810.

MT 3410. Probability and Statistics II (3)

Spring semester of odd-numbered calendar year

Continuous random variables and probability distributions, probability density functions, cumulative distribution functions, central limit theorem, moment-generating functions, functions of random variables, sampling distributions, statistical inference, confidence intervals, hypothesis testing, regression analysis and applications in physical and social sciences. Prerequisite: MT 3400.

MT 3530 (CS 3530). Numerical Methods (3)

Spring semester of even-numbered calendar year

Numerical solutions to algebraic and differential equations; numerical integration; interpolating polynomials and regression analysis; simultaneous equations and solutions to partial differential equations. Prerequisites: MT 1810.

MT 3600. Modern Geometry (3)

Spring semester of odd-numbered calendar year

The study of many different geometries rather than a single geometry. Topics include: axioms for Euclidean geometry, finite geometries, geometric transformations, convexity and non-Euclidean geometry. Prerequisite: MT 3800.

MT 3700. Differential Equations (3)

Spring semester

A dynamical systems approach to the study of solutions to differential equations. Some analytical solution techniques are covered, but emphasis is placed on qualitative, geometric and numerical techniques of finding solutions. Modeling is incorporated throughout the course. Prerequisite: MT 1810.

MT 3710. Applied Analysis (3)

Spring semester of odd-numbered calendar year

Determinants and matrices, introduction to

functions of a complex variable, Fourier series and integrals, vector analysis, introduction to partial differential equations with applications and calculus of variations. Prerequisite: MT 3700 or instructor approval.

MT 3800. Introduction to Abstract Mathematics (3)
Spring semester

A basic introduction emphasizing the development and presentation of sound mathematical arguments. Topics include logic, sets, relations, functions, and proof techniques. Little formal mathematics is needed, but intensive logical thought and an interest in the goal of the course are essential. Prerequisite: A grade of C or better in MT 1810 or instructor approval.

MT 3810. Linear Algebra (3)
Fall semester

Vector spaces, linear transformations, matrices, linear systems, determinants, eigenvalues and eigenvectors. Prerequisite: A grade of C or better in either MT 1810 or MT 1510.

MT 4350. Introduction to Topology (3)
Topology of Euclidean spaces and metric spaces; general topological spaces. Continuous mappings

and Homeomorphisms. Separation axioms, connectedness and compactness. Prerequisite: MT 3800.

MT 4900. Abstract Algebra (3)
Fall semester of even-numbered calendar year

Set theory, relations, rings, integral domains, groups, fields, polynomials, unique factorization domains and vector spaces. Prerequisites: MT 3800 and MT 3810.

MT 4920. Real Analysis (3)
Spring semester of even-numbered calendar year

Set theory, real number system, Euclidean and metric spaces. Real functions, continuity, differentiation, integration and sequences of functions. Prerequisites: MT 2800 and MT 3800.

MT 4930. Complex Analysis (3)

The algebra of complex numbers. Analytic functions, integration, complex series, conformal mapping, boundary value problems and integral transforms. Prerequisites: MT 2800 and MT 3800.

MT 4960 (PH 4960). Mathematics Seminar (1)
Spring semester

Presentations by Junior and Senior students on mathematical topics. Students learn presentation techniques through oral and written reports, poster presentations, and web page creation.

MUSIC (MS)

(Department of Communication and Fine Arts)

Assistant Professor Michael K. McDonald, Ph.D. (Chair)

Professor Timothy L. McDonald, Ph.D.

The music program at Rockhurst University offers a range of courses that provide opportunities for the study of music literature, and, in addition, various options for applied study in musical performance. Ensembles such as the University Chorus, Chamber Singers and Women's Chorale provide additional opportunities for students to participate in musical activities on and off campus.

Music literature courses emphasize an interdisciplinary approach by exploring the effects of literature, visual arts, philosophy, history and social conditions upon the creation of musical art.

Courses in applied music at Rockhurst University (piano, voice and guitar) are based on a holistic approach in which the development of the requisite physical and mental disciplines is seen as a means of achieving direct artistic experience. While studies in music literature develop skills in music criticism, applied music study provides the opportunity to experience art as a participant.

Minor Field of Concentration

No major is offered in music. However, course work in music may be included in the fine arts track of the major in communication. In addition, a music minor is available for interested students.

The prerequisite lower-division courses for the minor are MS 1000 or MS 1030 plus three semester courses in performance in Rockhurst Chorus, Chamber Singers, Women's Chorale or applied voice, piano, or guitar. The 12 hours of upper-division requirements consist of two of the following: MS 3350, MS 3370, MS 3410, MS 3430, MS 3450, MS 3500, MS 3650 or a Special Topics in Music course, plus additional semester courses in performance in Rockhurst Chorus, Chamber Singers, Women's Chorale or applied voice, piano, or guitar. A grade of C or better is required in each upper-division course of the minor. (A grade of C- will not satisfy the requirement.)

- MS 1000. Introduction to Music** (3)
A basic introduction to the art of music, including a survey of the elements of musical composition and the historical styles of Western music, with emphasis on the development of effective listening techniques and critical skills. (ARI)
- MS 1030. Concerts in Kansas City** (3)
Attendance at live performances is the focus of this music appreciation course. Supplemental studies in listening techniques and music literature provide significant insights into modern concert life in Kansas City. (ARI)
- MS 1050. Live Concert Experience** (1)
Students select and attend six live concerts in classical and jazz styles and then submit a short paper for each summarizing and evaluating their experiences. Students must meet categorical requirements to ensure a varied experience that includes professional, community and academic music performances. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 1110. Introduction to Music Theory** (3)
A course that explores the structural elements of music for the purpose of enhancing performance, composition or improvisation. Exercises in music reading, writing, and sight-singing provide a basis for developing essential skills. The course begins with construction of scales, and proceeds with the study of intervals, chords, rhythm, non-harmonic tones and thematic development.
- MS 1210. Instrumental Music Ensemble I** (1)
This course provides an opportunity for students of various instruments to develop their playing skills in an ensemble setting. Repertoire includes a variety of music from classical to popular.
- MS 1230. Dance** (2)
A course which includes the basic theory, history and fundamentals of performance of one particular branch of dance each semester it is offered. Taught by professionals in the performing arts.
- MS 1250. Rockhurst University Chorus I** (1)
Fall and Spring semester
Open to all Rockhurst students, the University Chorus sings a wide variety of vocal music, ranging from show tunes to sacred music. Emphasis is placed on the development of singing skills and a commitment to quality performance. The group performs at many campus functions and for various organizations off campus. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 1270. Chamber Singers I** (1)
Fall and Spring semester
The Rockhurst Chamber Singers is an elite choral performing group, specializing in the performance of music from the Middle Ages to the 20th century, as well as popular music and vocal jazz. Enrollment is limited by audition only, and participation in the Rockhurst University Chorus is required. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 1290. Women's Chorale** (1)
The Women's Chorale studies and performs music written and arranged for women's voices from the Middle Ages to the 20th century. Enrollment is limited by audition only, and participation in the Rockhurst University Chorus is required. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 1610. Applied Voice I** (1)
Fall and Spring semester
Basic techniques for vocal performance, with more advanced study of vocal literature and technique as the student progresses. Available for beginning through advanced students. Participation in University Chorus or Chamber Singers is highly recommended. Applied music fee. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 1710. Applied Piano I** (1)
Fall and Spring semester
Basic piano technique, reading skills and introduction to piano repertoire. Minimum practice requirement: one hour daily. Applied music fee. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)

- MS 1810. Applied Guitar I** (1)
Fall and Spring semester
Basic guitar technique, reading skills and introduction to guitar literature. More advanced study of various styles, including folk, jazz, popular, and classical guitar are available as the student progresses. Applied music fee. Students must furnish their own instruments. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 2610. Applied Voice II** (1)
Fall and Spring semester
Intermediate techniques for vocal performance, with continued study of vocal literature and technique as the student progresses. Participation in University Chorus or Chamber Singers is highly recommended. Admission on instructor approval. Applied music fee. Prerequisite: MS 1610. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 2710. Applied Piano II** (1)
Fall and Spring semester
Intermediate piano technique, reading skills and piano repertoire. Minimum practice requirement: one hour daily. Admission on instructor approval. Applied music fee. Prerequisite: MS 1710. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 2810. Applied Guitar II** (1)
Fall and Spring semester
Intermediate guitar technique, reading skills and introduction to guitar literature. More advanced study of various styles, including folk, jazz, popular, and classical guitar are available as the student progresses. Admission on instructor approval. Applied music fee. Students must furnish their own instruments. Prerequisite: MS 1810. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3110. Music Theory II** (3)
A more advanced theory course that stresses the mastery of the elements of music for the purpose of composition or improvisation. Exercises in music reading, writing and sight-singing emphasize 20th century materials such as modes, pentatonic scales, and whole tone scales, while harmonic study concentrates on non-harmonic tones and thematic development. Prerequisite: MS 1110 or instructor approval.
- MS 3210. Instrumental Music Ensemble II** (1)
Continuation of MS 1210. Prerequisite: MS 1210.
- MS 3250. Rockhurst University Chorus II** (1)
Fall and Spring semester
Continuation of MS 1250. May be repeated for credit. Prerequisite: MS 1250. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3270. Chamber Singers II** (1)
Fall and Spring semester
Continuation of MS 1270. May be repeated for credit. Prerequisite: MS 1270. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3290. Women's Chorale II** (1)
Continuation of MS 1290. Prerequisite: MS 1290. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3350. Renaissance and Baroque Music** (3)
A survey of the major stylistic developments in European music from 1450 through 1750, as seen through the works of Josquin, Palestrina, Lassus, Monteverdi, Purcell, Bach, Handel and others. (ARI)
- MS 3370. Classical and Romantic Music** (3)
A survey of the major stylistic developments in European music from 1750 through 1900, as seen through the works of Haydn, Mozart, Beethoven, Schubert, Brahms, Wagner, Verdi and others. (ARI)
- MS 3410. Music in the 20th Century** (3)
A survey of the major stylistic developments in European and American music during the 20th century, as seen through the works of Richard Strauss, Claude Debussy, Igor Stravinsky, Arnold Schoenberg, Aaron Copland and others. (ARI)
- MS 3430. Music in America** (3)
The history of American music from the colonial era to the present. The major stylistic developments as seen in the works of Stephen Foster, John Philip Sousa, Aaron Copland, George Gershwin and others are contrasted and compared with the oral traditions of folk, jazz and popular music. (ARI)
- MS 3450. History and Development of Jazz** (3)
The story of jazz is traced from its roots in 19th century forms such as Blackface minstrelsy, field "hollers" and work songs to the major 20th century developments of blues, dixieland, swing, bop, funk, and jazz-rock.

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- MS 3500. The World of Opera** (3)
An introduction to the literature, history and performance of opera, including works by composers such as Handel, Mozart, Verdi and Wagner. The course includes the use of opera videos of filmed and staged operas. Trips to the Lyric Opera of Kansas City are also included. (ARI)
- MS 3610. Applied Voice III** (1)
Fall and Spring semester
Continuation of MS 2610. May be repeated for credit. Prerequisite: MS 2610. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3650. Introduction to World Music** (3)
An exploration of the history, styles and performance practices of music of non-western cultures, such as those of Africa, Asia and India.
- MS 3710. Applied Piano III** (1)
Fall and Spring semester
Continuation of MS 2710. May be repeated for credit. Prerequisite: MS 2710. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
- MS 3810. Applied Guitar III** (1)
Fall and Spring semester
Continuation of MS 2810. May be repeated for credit. Prerequisite: MS 2810. (ARI – To satisfy the core this course must be taken in combination with other AR, MS, or TA courses to equal at least 3 hours.)
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NATURAL SCIENCE (NS)

Professor John G. Koelzer, M.S. (Acting Division Chair)

The Division of Natural, Applied and Quantitative Sciences offers interdisciplinary coursework under a “natural science” or “NS” designation. Any questions concerning these offerings may be directed to the division chair.

- NS 1000. Freshmen in Science Seminar** (1)
The purpose of the course is to assist beginning science/math students in exploring the nature of the study of science and mathematics and to explore career options in science and mathematics. It does this in the larger realm of the mission and values of Rockhurst University and its science and mathematics programs. This course has been designed to facilitate partnerships in learning with faculty, study groups and classmates; to propose time management strategies; to become more aware of science requirements in various fields of study; to discuss the importance of ethics in science as well as in the community at large; to evaluate the importance of personal wellness; to value diversity with science and the community; to examine the relationships between interest/values/skills as they relate to career alternatives, and to foster a sense of becoming “men and women for others” with a service learning project.
- NS 1150. Bases of Exercise Physiology and Biochemistry** (4)
A study of exercise physiology and biochemistry and how an exercise training program affects the individual. The students must be willing to participate in a vigorous exercise program, including calisthenics and weight training. Measurements of endurance and strength are taken several times during the course as the students learn to evaluate the effects of their training. Three hours of lecture with two hours of lab per week. Laboratory fee.
- NS 1210. Environmental Science** (3)
This course provides an introduction to scientific methods and a scientific background upon which to base decisions concerning environmental issues. Topics include air, water and solid waste pollution, ecological concepts, population and conservation of natural resources. The course, with NS 1220, counts toward the natural science requirement for non-science majors. Three hours of lecture per week. Concurrently: NS 1220. (SCI)
- NS 1220. Environmental Science Laboratory** (1)
Experiments and projects demonstrating and testing the concepts developed in lecture. One laboratory period per week. Laboratory fee. Concurrently: NS 1210 (SCI)
- NS 1500. Geological Sciences** (3)
The course will be divided into two broad areas: physical and historical. The physical section