

Management and Organizational Behavior (MGT) Courses

MGT-100(1) Introduction to Business Studies. (Adult AABA Program.) This course is an introductory one for adult students pursuing an associate's degree. Topics include program planning, group interaction, written and oral communication skills, research skills and personality inventory.

MGT-207(2) Orientation to Adult Learning and Team Building. (Adult BAM Program.) Theories and principles of adult learning and an introduction to small group interaction. Includes workshops on Microsoft Office Word, Excel, PowerPoint and on library research methods.

MGT-210(3) Management. (Adult AABA Program.) An overview of the fundamentals of management and leadership and their impact on the modern corporation. The course is a combination of theory and practical application, offering the student an opportunity to learn about the nature of management, leadership and cultural diversity issues.

MGT- 217(3). Group Behavior. (Adult BAM Program.) Overview of organizational structures and group dynamics.

MGT-234(3). Organizational Planning and Analysis. Provides a basic understanding of key concepts and an ability to use basic analytical tools related to financial, economic and marketing planning. Topics include revenues, costs, supply and demand, pricing and the development of products and services to meet market needs. Periodically.

MGT-235(3). Business Law I. Introduction to the role of the legal system in our society with an emphasis on the law of contracts, sales, and agency. Periodically. IAI BUS 912.

MGT-236(3). Business Law II. Introduction to the role of the legal system in our society with an emphasis on the law of commercial paper, partnership and corporations. Periodically.

MGT-237(1-3). Business Communications. Theory and practice of communication within and between business organizations of all types. Focus on the training for and development of entry-level skills in communication and its related technology. Prerequisite: RHET-102(3), participation in the secondary education certification program and consent of instructor. Periodically.

MGT-247(3). Management and Leadership. (Adult BAM Program.) Deals with the fundamental principles and practices utilized in the business enterprise to plan, organize, implement and control the operation of the firm.

Deals with all aspects of management at the strategic and tactical levels. The course also reviews alternative models of leadership and their effects on the performance of employees and of the organization. The focus is on leadership strategies and skills for effective manager performance.

MGT-255(3). Readings in Organizational Research. Introduces methods of systematic investigation which are needed to provide continued development of the body of knowledge upon which the disciplines of management and organizational behavior are based. Focus is on an understanding of the research process in organizations, its value and its limitations. Periodically.

MGT-257(3). Data Development & Analysis. (Adult BAM Program.) Problem solving and quantitative skill development using statistical tools to solve problems in the management of organizations.

MGT-277(4). Accounting for Organizations. (Adult BAM Program.) This course surveys a broad range of financial and managerial accounting techniques used by managers as applied to business and organizational planning, reporting, and control. The financial accounting topics dealt with, from the perspective of the financial statement user, include the basic processes of the accounting information system, transaction analysis, the form and content of financial statements, and financial analysis tools. In the managerial accounting topics we explore the tools of management decision making, including variable costing, cost-volume-profit analysis, performance reporting, and capital budgeting. The emphasis is on understanding rather than on mathematical rigor. The focus is on the analysis and solution of problems that managers normally deal with.

MGT-297(2-6). Internship (See ACCT- 297).

MGT-C300(3). Management. Fundamental principles and practices of the business enterprise are utilized to consider planning, organizing, implementing and controlling in management. Prerequisite: Sophomore standing. Each semester.

MGT-301(3). Entrepreneurship. Application of business principles to planning, organizing and operating the entrepreneurial enterprise. Prerequisite: MGT-C300. Periodically.

MGT-302(3). International Management. (See INTB-302.)

MGT-320(3). Organizational Behavior. (See PSYC-320.)

MGT-323(3). Group Processes. Provides the basic theory necessary to understand the components of the group process. The course gives the opportunity to participate in functioning groups for decision making and to practice newly developed skills in class groups. Prerequisite: MGT-320. Each semester.

MGT-330(3). Human Resource Management. Relationship of internal and external labor market concepts to organizational manpower planning. Prerequisite: MGT-C300. Fall.

MGT-333(3). Productions and Operations Management. A study of theory, principles and computational procedures as applied to such areas as strategic planning, forecasting, capacity planning, productivity and quality control. Prerequisite: ECON-150, MGT-C300. Periodically.

MGT-347(3). Project Management. (Adult BAM Program.) The course deals with the planning, directing, controlling, and managing projects of all types. Both the theory and current practice in managing projects of all sizes and degrees of complexity are dealt with in this course. Planning the project, communicating with project members and the larger organization, use of technology in project management, and development of benchmarks are included among the topics.

MGT-370(3). Industrial Organization and Policy. (See ECON-370.)

MGT-380(3). Strategic Management. Management capstone course enabling business students to use the disciplines and techniques learned throughout their program of study. Case studies stress the importance of basing management decisions on a strategic view of organizations. Prerequisite: MGT-C300, FINA-300, MKTG-300 and senior standing. Each semester.

MGT-387(3). Administrative Policy. (Adult BAM Program.) This is the management capstone course enabling students to integrate and use the disciplines and techniques learned throughout the program of study. Case studies are utilized to stress the importance of basing management decisions on a strategic view of organizations. The focus is on the role of management in the development of organizational strategy, on the practice of the decision making process, and on the development of an appropriate organizational structure.

MGT-389(3). Senior Seminar. Capstone course for organizational leadership major. Focus on an analysis of the leadership role in complex organizations. Case-based approach will integrate previous knowledge and emphasize use of critical thinking skills. Periodically.

MGT-391(3). Topics. Periodically.

MGT-395(1-3). Independent Study.

Marketing (MKTG) Courses

MKTG-297(2-6). Internship. (See ACCT-297.)

MKTG-300(3). Marketing. A comprehensive analysis of the principles of marketing and the marketing system. Prerequisite: Sophomore standing. Each semester.

MKTG-C310(3). Consumer Behavior. A study of the consumer's needs, wants and behavior in the market place as a basis for marketing planning. Prerequisite: sophomore standing. Fall.

MKTG-330(3). Promotional Strategy. Advertising, personal selling, sales promotion and publicity will be examined to determine the marketing communications mix needed to meet marketing objectives in various target markets. Prerequisite: MKTG-300. Periodically.

MKTG-340(3). Marketing Management. (Adult BAM Program.) An introduction to the theory and practice of marketing from the analytical perspective of the marketing manager. Issues dealt with include consumer behavior, marketing research, environmental analysis, product development, pricing, and distribution as they apply to the development of a comprehensive marketing program. Both strategic and operation issues in marketing are dealt with.

MKTG-350(3). International Marketing. Study of the marketing mix that will enable a corporation to market internationally and fulfill the domestic objectives of the firm. Prerequisite: MKTG-300. Periodically.

MKTG-351(3). International Trade And Development. (See ECON-351.)

MKTG-380(3). Marketing Strategy. Marketing strategy is the systematic process of identifying target markets and integrating the elements of product, price, place and promotion to accomplish marketing objectives. Case studies will be used to formulate solutions to marketing problems. Prerequisite: MKTG-300, senior standing. Spring.

MKTG-391(3). Topics. Periodically.

MKTG-395(1-3). Independent Study.

Mathematics (MATH) Courses

MATH-095(3). Intermediate Algebra. Topics include real numbers, linear equations, exponents, polynomials, rational expressions, radicals and quadratic equations. Prerequisite: placement exam. Each semester.

MATH-104(3). Advanced Business Math. (Adult AABA Program.) This course is designed to provide the student with a good understanding of proper problem-solving techniques; simplifying algebraic expressions; solving first-degree equations; the properties of lines, graphs and functions; modeling and analysis of functions; and solving finance problems. The TI-83 Plus graphing calculator is used throughout the course.

MATH-S105(3). Finite Mathematics I. A survey of algebra, functions, graphs, and linear equations as applied to problems in economics and business. Topics include mathematics of finance, linear, polynomial, exponential, and logarithmic functions. Credit will not be granted for both MATH-S105 and MATH-S110. Prerequisite: Placement Exam or at least a “C” in MATH-095. Each semester.

MATH-S108(3). Quantitative Reasoning. Develops conceptual understanding and computational skills in unit analysis, uses of percentages and dealing with quantities and their magnitudes. Includes formulas of finance for simple interest, compound interest and loan payments; functions and their graphs; linear equations; exponential growth and decay; principles of counting; fundamentals of probability; and estimation and approximation techniques to judge the reasonableness of answers. Also includes representing and analyzing data using statistical tools such as histograms; measures of central tendency; variance and standard deviation; linear regression and scatter plots; normal distributions; and margin of error and confidence intervals. Prerequisite: Placement exam or at least a “C” in MATH-095. Each Semester. IAI M1 904.

MATH-S110(3). College Algebra. Topics include equations, inequalities, functions, graphs, polynomial and rational functions, equations and systems of equations and inequalities. Credit will not be granted for both MATH-S105 and MATH-S110. Prerequisite: placement exam or at least a “C” in MATH-095. Each semester.

MATH-111(3). College Trigonometry. General study of the trigonometric functions, identities and equations. Exponential and logarithmic functions are studied. Prerequisite: Placement exam or at least a “C” in MATH-S105 or MATH-S110. Each semester. IAI MTM 901.

MATH-C112(3). Topics in Mathematics. A study of mathematics topics including problem solving strategies and their application, estimation techniques, geometry of plane and solid figures, direct and indirect measurement and coordinate geometry. Recommended for those planning to teach at the elementary and middle grade level. Prerequisite: At least a “C” in MATH-S105, MATH-S108 or MATH-S110. Spring.

MATH-C115(3). Finite Mathematics II. A survey of mathematical techniques used in economics and business, exponential and logarithmic applications, and an introduction to calculus. Prerequisite: At least “C” in MATH-S110 or MATH-S105, or Placement Exam. Each semester. IAI M1 906.

MATH-150(3). Statistics I. Basic course in statistical techniques; includes measures of central tendency, variability, probability theory, sampling, estimation and hypothesis testing. Prerequisite: MATH-S105 or MATH-S110. For Non-Business Majors. (See ECON-150, PSYC-150, PLSC-150, SOCL-150). Each semester. IAI M1 902; IAI BUS 901.

MATH-161(3). (CAPS Program) Calculus I Preliminaries. An introduction to limits and differentiation. Topics include functions and trigonometry as necessary for the study of calculus, limits and continuity and derivatives. Prerequisite: placement exam. Fall.

MATH-C170(5). Introduction to Calculus I. An introduction to limits and differentiation. Topics in algebra, functions and trigonometry will be reviewed as necessary for calculus. Further study includes the chain rule, Newton’s approximations, plane analytic geometry and applications of velocity and marginal cost. The computer algebra system DERIVE will be employed. Prerequisite: placement exam. Fall.

MATH-181(3). (CAPS Program) Calculus I Fundamentals. A study of the derivative and its applications. Topics include the chain rule, Newton’s approximations, curve sketching, maxima and minima, related rates, and derivatives of exponential, inverse and logarithmic functions. Prerequisite: At least “C” in MATH-161. Winter.



MATH-200(4). Applications of Calculus I. A continuation of MATH-C170. Topics include curve sketching, plane analytic geometry, maxima and minima, related rates and other applications of the derivative. Study concludes with definite and indefinite integrals, numeric integration, elementary differential equations, parametric functions and the Fundamental Theorems of Integral Calculus. The computer algebra system DERIVE will be employed. Credit will not be granted for both MATH-200 and MATH-210. Prerequisite: At least “C” in MATH-C170. Spring.

MATH-201(3). (University College Program) Calculus I Complete. A study of integration and conic sections. Topics include definite and indefinite integrals, numeric integration, elementary differential equations, the Fundamental Theorems of Integral Calculus, parametric functions and plane analytic geometry. Prerequisite: At least “C” in MATH-181. Spring.

MATH-205(4). AP Calculus (AB) Exam. A score of four or higher on the AP Calculus AB Exam constitutes successful completion of this course. Satisfies MATH-210 requirement.

MATH-206(4). AP Calculus (BC) Exam. A score of three or higher on the AP Calculus BC Exam constitutes successful completion of this course. Satisfies MATH-211 requirement.

MATH-208(1). Calculus Tools Laboratory. An introduction to the computer algebra system DERIVE and graphing calculator use, for students in MATH-211 and MATH-212 with no previous DERIVE experience. Students investigate calculus applications relevant to MATH-211 or MATH-212 while learning to use the DERIVE software. Credit will not be granted for both MATH-208 and MATH-C210, or MATH-200 and MATH 208. Prerequisite: Co-registration in MATH-211 or MATH-212, or consent of instructor. Each semester. May be applied as elective toward natural science core when taken concurrently with either MATH-211 or MATH-212.

MATH-209(4). Calculus with Analytics I. Topics include differentiation and antidifferentiation of algebraic, trigonometric and transcendental functions, applied problems on maxima and minima, plane analytic geometry and simple differential equations. Credit will not be granted for both MATH-200 and MATH-209. Prerequisite: placement exam. Summer. IAI M1 900.

MATH-C210(5). Calculus with Analytics I. Topics include differentiation and antidifferentiation of algebraic, trigonometric and transcendental function, applied problems on maxima and minima, plane analytic geometry and simple differential equations. The computer algebra system DERIVE will be used to illustrate calculus concepts. Credit will not be granted for both MATH-200 and MATH-C210. Prerequisite: placement exam. Each semester. IAI M1 900; EGR 901; MTH 901.

MATH-211(4). Calculus with Analytics II. Topics include applications of the definite integral, methods of integration, sequences and series and numeric integration. Prerequisite: At least “C” in MATH-200, MATH-205 or MATH-C210. Each semester. May be applied as elective toward natural science core when taken concurrently with MATH-208. IAI M1 900; EGR 902; MTH 902.

MATH-212(4). Calculus with Analytics III. Topics include solid analytic geometry and vectors, partial differentiation and multiple integrals. Prerequisite: At least “C” in MATH-206 or MATH-211. Each semester. May be applied as elective toward natural science core when taken concurrently with MATH-208. IAI M1 900; EGR 903; MTH 903.

MATH-240(3). Discrete Mathematics. Basic concepts of finite and discrete algebraic structures, with emphasis on

applications in computer science. Sets, relations, functions, boolean algebra, computer arithmetic, combinatorics, number theory, matrix algebra, directed and undirected graphs and methods of proof. Prerequisite: MATH-115 or placement or credit in MATH-200 or C210. Each semester. IAI M1 905; CS 915.

MATH-260(4). Differential Equations. Includes an introduction to ordinary differential equations with an emphasis on linear equations and techniques to solve them, applied problems in various fields, the Laplace transform, a brief introduction to chaos theory, eigenvalues/eigenvectors and power series. Prerequisite: Credit or co-registration in MATH-212. Spring. IAI EGR 904; MTH 912.

MATH-280(3). Introduction to Proofs. An introduction to methods of formal mathematical proof, with emphasis on improving the student’s ability to both read and write such proofs. Topics include logic, set theory, relations, functions, induction and cardinality. Course serves as a transition from beginning mathematics courses to the higher level courses. All majors are strongly encouraged to take this course before enrolling in any 300-level mathematics course. Prerequisite: MATH-211 “C” or better. Fall.

MATH-300(3). Linear Algebra. Topics include matrix algebra, theory of determinants, introduction to vector spaces, linear independence and span and properties of linear transformations on finite dimensional vector spaces. Prerequisite: Credit in MATH-212. Spring. IAI MTH 911.

MATH-310(3). Modern Geometry. Euclidean and non-Euclidean geometries, and introduction to affine and projective geometry. Prerequisite: MATH-211. Fall, odd years.

MATH-331(3). Abstract Algebra I. Groups and elementary theory of groups: cyclic groups, permutation groups, homomorphism, isomorphism, cosets and Lagrange’s theorem, factor groups, Homomorphism theorem and the Fundamental Theorem of Finitely Generated Abelian Groups. Prerequisite: MATH-300. Fall, odd years.

MATH-332(3). Abstract Algebra II. Rings: definition and properties, quotient rings and ideals and homomorphisms of rings. Polynomial rings, integral domains and fields. Sylow Theory and group actions, other algebraic structures including algebras, group rings and vector spaces. Prerequisite: MATH-331. Periodically.

MATH-341(3). Real Analysis I. Topological properties of Euclidean spaces, limits of sequences and functions and continuity and differentiability for functions of one variable. Prerequisite: MATH-212. Fall, even years.

MATH-342(3). Real Analysis II. Integrability, sequences of functions and infinite series. Prerequisite: MATH-341. Spring, odd years.

MATH-350(3). Complex Variables. Complex numbers and their geometric representation, analytic functions, elementary functions, transformations, complex integration, Taylor and Laurent series and the calculus of residues. Prerequisite: MATH-212. Spring, even years.

MATH-361(3). Fourier Analysis and Boundary Value Problems. Fourier series; Fourier Integral and Fourier Transform; Sturm-Liouville Theory; a potpourri of techniques to solve partial differential equations; Bessel functions and their application in solving boundary value problems of mathematical physics. Prerequisite: MATH-260. Fall, even years.

MATH-365(3). Vector Analysis. Vector algebra; vector integration and differentiation; the del operator; the gradient, divergence and curl; line and surface integrals; the main integral theorems of vector analysis – Stokes' Theorem., Green's Theorem. and Divergence Theorem.; tensor notation; and curvilinear coordinates. Prerequisite: MATH-212. Periodically.

MATH-370(3). Theory of Interest. Topics include measurement of interest, various types of annuities, yield rates, amortization schedules, sinking funds, bonds and securities. Prerequisite: MATH-211. Spring, odd years.

MATH-371(3). Probability and Statistics I. Discrete and continuous probability distributions, moments and mathematical expectation, moment generating functions, conditional probability and expectation, and multivariate distributions and convolutions. Includes computer laboratory simulations. Prerequisite: MATH-212. Fall, odd years.

MATH-373(3). Probability and Statistics II. Sampling distributions, estimation, decision theory, tests of hypotheses, least squares and regression and correlation and analysis of variance. Includes computer laboratory simulations. Prerequisite: MATH-371. Spring, even years.

MATH-380(3). Numerical Analysis. (See CMSC-350.) Fall, even years.

MATH-390(3). Selected Topics. Lectures on miscellaneous topics with which the student has not become acquainted in formal course work. May be an extension of, or a supplement to, material previously encountered, or material from a completely new area. Prerequisite: Consent of instructor.

MATH-395(1-3). Independent Study Seminars. Designed to encourage superior students to continue the study of mathematics beyond the scope of undergraduate course offerings, through guided independent study. Prerequisite: Consent of instructor.

MATH-399(3-6). Internship. Practical experience in mathematics or related career fields under the supervision of the Mathematics Faculty. Consent of internship coordinator and instructor.

Music (MUSI) Courses

MUSI-101(3). Theory and Ear Training I. Essentials of pitch and rhythmic notation, keys, intervals and scales are covered in this foundation course. Fall. IAI MUS 901.

MUSI-102(3). Theory and Ear Training II. Examines diatonic four-part harmony and modulations. Prerequisite: MUSI-101. Spring. IAI MUS 902.

MUSI-110(2). Introduction to the Arts. Introduction to the Arts. This course will provide information to the students enrolled in Fine and Performing Arts degree programs. Incoming freshman and transfer students will be mentored in the program through this course. Research into job market studies, resume writing as well as other career-based studies will be accomplished. It will also give us an opportunity to present the Benedictine philosophy on the importance of the arts as a liberal study. Fall.

MUSI-112(2). Brass Methods and Materials. Enables the student to perform on and teach basic skills on the trumpet, French horn, trombone and tuba. Reviews appropriate literature and music to support this activity as well. Periodically. Fall, even years.

MUSI-113(2). Woodwind Methods and Materials. Enables the student to perform on and teach basic skills on the flute, oboe, clarinet, bassoon and saxophone. Reviews appropriate literature and music to support this activity as well. Spring, even years.

MUSI-114(2). String Methods and Materials. Enables the student to perform on and teach basic skills on the violin, viola, cello and bass. Reviews appropriate literature and music to support this activity as well. Spring, odd years.

MUSI-115(1). Percussion Methods and Materials. Enables the student to perform on and teach basic mallet percussion, snare drum, latin percussion and other miscellaneous percussion instruments. Reviews appropriate literature and music to support this activity as well. Fall, odd years.

MUSI-116(2). Vocal Pedagogy. A study of the physiology of the voice, with emphasis on technique and vocal development of various national methods. Includes solo and ensemble singing techniques for educational and professional methods. Features basic teaching pedagogy in voice, including solo and chamber singing techniques for instruction in elementary and secondary schools. Fall, even years.

MUSI 117(2) Vocal Literature. Investigates the styles of literature used in vocal music from early chant to modern musical theater, with emphasis on material for educational and professional development. Spring even years.

MUSI-118(2). Vocal Diction. The study of English, Italian, Latin, German and French diction. Emphasized are the proper formation of vowel sounds, rules to follow in singing situations, and the International Phonetic Alphabet, (IPA). Fall odd years.

MUSI-119(2). Vocal Methods and Materials. Enables the student to perform and teach basic vocal skills in diverse vocal genres. Reviews appropriate literature and music to support this activity.

MUSI-120 (1/0). Gospel Choir. This performance group uses standard Gospel literature as its focus. Performances take place on campus as well as at various off-campus sites. Prerequisite: by permission of instructor. May be repeated. IAI MUS 908.

MUSI-121(1/0). Concert Band. A performing ensemble utilizing the wind band repertoire. Standard and new compositions will be performed in concerts each semester. May be repeated. Prerequisite: by permission of instructor. IAI MUS 908.

MUSI-122(1/0). Concert Choir. A performing ensemble utilizing practical work and study of choral literature of all periods of music in concerts each semester. May be repeated. Prerequisite: by permission of instructor. IAI MUS 908.

MUSI-123(1/0). Chapel Choir. An advanced, small mixed vocal and instrumental ensemble which performs at student Roman Catholic service. May be repeated. Prerequisite: by permission of instructor. IAI MUS 908.

MUSI-124(1/0). Jazz Workshop. A jazz group whose style of music performed will vary according to the talents of the students enrolled. Performances each semester. May be repeated. Prerequisite: audition required. Concurrent registration in applied instruction with an emphasis in jazz techniques.

MUSI-125(1) Chamber Music. Advanced, small mixed vocal and/or instrumental ensemble which performs in recital and functions on and off-campus. Periodically. Pre-requisite: audition required. Concurrent registration in applied instruction.

MUSI-126(1). Jazz Band. This ensemble is dedicated to the performance of big band jazz. May be repeated. Audition required. IAI MUS 908.

MUSI-127(1). Vocal Jazz Ensemble. A performance ensemble concentratin on vocal jazz, pop and musical theater. Performances take place on campus as well as off-campus venues. Prerequisites: students should be able to sing and move. By permission of instructor. May be repeated. IAI MUS 908.

MUSI-128(1/0). Pep Band. A small mixed ensemble, which performs at University athletic functions. May be repeated. Audition required. Concurrent registration in applied instruction with an emphasis in jazz techniques.

NOTE: All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee.

Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing.

Music majors will enter at the 200-level applied instruction. Advancement into the 300-level will occur through proficiency and placement testing.

APPLIED INSTRUCTION INCLUDES:

MUSI-140(1-2) Strings. Violins, viola, violoncello, contrabass, guitar.

MUSI-141(1-2) Woodwinds. Flute, oboe, clarinet, saxophone, bassoon.

MUSI-142(1-2) Brass. Trumpet, French horn, trombone, Euphomium/tuba.

MUSI-143(1-2) Percussion.

MUSI-144(1-2) Keyboard. Piano, organ, jazz piano.

MUSI-159(1-2) Voice.

MUSI-190(2). Class Instruction in Voice. For the student who wants to learn to sing but has never studied voice or cannot read music. May be repeated. Periodically

MUSI-198(2). Class Instruction in Guitar. For the beginning student who wants to learn to play the acoustic guitar. Student must provide the instrument. May be repeated. Periodically.

MUSI-C200(3). Music Appreciation. This course offers access to various ways to listen to music and how to take full advantage of concert attendance. Provides detailed explanations and sound demonstrations of the basic musical elements and performing media. Periodically. IAI F1 900.

MUSI-201(3). Theory and Ear Training III. An advanced theory course designed to cover chordal structures, formal analyses, development of aural skills, inversions, non-diatonic harmony and sight-singing. Prerequisite: MUSI-102. Fall. IAI MUS 903.

MUSI-202(3). Theory and Ear Training IV. A continuation of MUSI-201. with emphasis on twentieth century procedures and theoretical concepts. Prerequisite: MUSI-201. Spring. IAI MUS 904.

MUSI-C204(3). Music Literature. The music from the Middle Ages to Contemporary periods will be investigated. The literature (i.e. musical examples) will be examined according to each significant genre, utilizing the composers from these periods as a frame of reference and discussion.

Concurrently, significant non-musical areas that influenced changes (such as religion, politics, technology and historical events) will also be investigated. Emphasis will be placed upon developing listening skills and the ability to generalize music listening activities to music not previously encountered from these periods. Periodically.
IAI MUS 905.

MUSI-205(3). Music History I. Studies the origin and development of music from the ancient times through the Medieval, Renaissance, and Baroque periods. Special emphasis is placed on the crucial events, individuals and genres that were developed and produced during this time. Analyzes and focuses on the cultural contributions and implications of the significant epochs of this era. Fall.
IAI F1 902.

MUSI-206(3). Music History II. Studies the origin and development of music from the Classical through the modern periods. Special emphasis is placed on the crucial events, individuals and genres that were developed and produced during this time. Analyzes and focuses on the cultural contributions and implications of the significant epochs of this era. Prerequisite: MUSI-205. Spring.

MUSI-TC207(3). World Music. An investigation of the diverse cultures as represented by their music. Native instruments, production strategies and theoretical analyses provide the student with a foundation to better understand the role music plays both in these cultures as well as our own. Fall.

MUSI-C208(3). Women in Music. This course examines the role of women in Western music which has historically been de-emphasized or even ignored until recently. The full extent of musical endeavors among women will be investigated along with some of the factors which accounted for the treatment many of these important composers and performers have received in the past. The primary focus will be directed toward Western art music, although contemporary and popular examples will also be presented. Spring.

MUSI-209(3). The Psalms. A historical study of the Psalms that examines their literary form—through music from the Biblical times to the present—and exegeses. Their relevancy and prayerful application in our daily lives are examined. Periodically.

MUSI-211(2). Jazz Pedagogy. Provides the student with teaching and performance materials for a high school or junior high jazz program. Includes a survey of improvisation methods, big band, combo and vocal jazz literature. Spring, even years.

MUSI-212(2). Conducting. A study of fundamental conducting techniques acquired by observation, discourse and practice. Choral and instrumental ensemble techniques will be featured. A practicum component, utilizing a campus ensemble will be central to the final project. Fall, odd years.

MUSI-213(2). Music Skills for Classroom Teachers. Prepares primary teachers for classroom music teaching, developing skills in reading music, singing and playing classroom and/or social instruments. Prerequisite: EDUC-205. (See EDUC-227.) Spring, odd years.

MUSI-214(2). Teaching Marching Band. A practicum for students to learn how to design and chart half-time shows for marching bands. Includes field routines, parade maneuvers, flag and rifle drills. Periodically.

MUSI-218(3). Jazz Techniques. Students will study a variety of jazz styles and methods of improvisation. Various approaches to jazz composition, arranging and performance will be discussed. Prerequisite: MUSI-202. Periodically.

MUSI-223(1). Chamber Orchestra. An ensemble whose repertoire will include string orchestral works. Winds will be added as needed. Performances each semester. May be repeated. Prerequisite: permission of instructor.

MUSI-225(1) Percussion Ensemble. A performing ensemble consisting of mixed percussion instruments. Performances each semester. May be repeated. Prerequisite: consent of instructor

MUSI-C235(3). Jazz Appreciation. A study of jazz starting from the earliest influences to the present. Emphasis will be placed upon developing listening skills related to these periods of music, material relating to the socio-political influences, significant figures and important events associated with the music will also be investigated. Fall.

MUSI-250(1). Junior Recital. Solo performance program prepared and presented by the student. Concurrent registration in applied instruction. Prerequisite: 200 level applied instruction. Permission of department chair.

MUSI-301(3). Modal Counterpoint. Emphasizes modal counterpoint and compositional techniques from the sixteenth century. Prerequisite: MUSI-202. Periodically.

MUSI-302(3). Tonal Counterpoint. Covers contrapuntal technique of the seventeenth and eighteenth century in the style of Bach. Prerequisite: MUSI-202. Periodically.

MUSI-303(3). Composition. Presents elements of musical composition. Includes transposition, melodic development, modulation and forms. Twentieth century compositional techniques will be introduced. Prerequisite: MUSI- 202. Periodically.

MUSI-305(3). Orchestration. The color, range and general characteristics of all the instruments of the orchestra are examined. Enables students to score familiar works for various ensembles. Prerequisite: MUSI-202. Periodically.

MUSI-310(2). Piano Pedagogy. This course is designed to assist students to develop their teaching skills for the piano. Focus will be primarily oriented towards working with future students at the beginning and intermediate levels. Spring, odd years.

MUSI-311(2). Choral Conducting Materials and Repertoire. Covers the diverse range of repertoire and strategies for various choral ensemble situations in final preparation for placement in a teaching situation. Prerequisite: MUSI-212. Fall, even years.

MUSI-312(2). Instrumental Conducting Materials and Repertoire. Covers the diverse range of repertoire and strategies for various instrumental ensemble situations in final preparation for placement in a teaching situation. Prerequisite: MUSI-212. Spring, odd years.

MUSI-314(2). Teaching K-12 Classroom Music. A survey of the fundamentals of music reading, listening and composing with special reference to teaching methods and materials for both elementary and secondary students. Current trends and teaching strategies for multicultural music, special education and children-at-risk are examined. General and music appreciation in both elementary and secondary schools are examined. Includes 35 hours of pre-clinical observation in the teaching of music. Fall, odd years.

MUSI-315(0). Pre-Clinical Experience-Classroom Music. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Pre-clinical application and co-registration in MUSI-314. Fall, odd years.

MUSI-316(3). Teaching Choral Music. A methods course providing a detailed foundation in the techniques of teaching, publicizing, organizing, developing, administering and maintaining a comprehensive choral program, elementary through secondary school. Fall, even years.

MUSI-317(0). Pre-Clinical Experience-Choral Music. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Pre-clinical application and co-registration in MUSI-316. Fall, even years.

MUSI-318(3). Teaching Instrumental Music. A methods course providing a detailed foundation in the techniques of teaching, publicizing organizing, developing, administering and maintaining a comprehensive instrumental program, elementary through secondary school. Spring, odd years.

MUSI-319(0). Pre-Clinical Experience-Instrumental Music. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Pre-clinical application and co-registration in MUSI-318. Spring, odd years.

MUSI-333(2). Small Group Arranging. Introduction to basic ranges, transpositions of instruments and scoring techniques with an emphasis on creating colors and voicings. Basic compositional techniques will also be presented. Prerequisite: MUSI-234. Periodically.

MUSI 350(1) Senior Recital. Solo performance program prepared and presented by the student. Concurrent registration in applied instruction. Prerequisite: MUSI 250 and 300 level applied instruction. Permission of department chair.

MUSI-360(2) Senior Seminar. The students will analyze the job markets and prepare analyses of current issues in the performing arts. Analyses of demographics effecting the operations and organization of art programs in the United States will be studied. Students will be required to create a portfolio of personal data to prepare for job searches and will hold mock interviews. Junior standing.

MUSI-391(1-3) Topics. Special course focusing on various topics relating to the needs of the students and recent events and/or topics of interest. Periodically.

MUSI-395(1-3). Independent Study. A course in which the student, under the supervision of the teacher, may study any one of the current music courses in an individual and independent manner. Consent of instructor.

MUSI-396(3)/397(3). Internship. A practical course intended to give those students who are qualified, an opportunity to do observing—either in a classroom or privately—or to perform any practical job associated with his or her field under the supervision of the faculty. Each semester.

Natural Science (NTSC) Courses

NTSC-C151(1.5). Natural Science Interdisciplinary Laboratory I. An integrated laboratory course intended to teach the philosophy and practice of experimental aspects of science. Students will learn skills related to laboratory safety, ethics, data recording, experimental design and the scientific method. Methods and instrumentation of laboratory investigation that are common to the disciplines of biology, chemistry and physics will provide the focus for student development of a standard set of laboratory skills and techniques. The rationale behind experimental protocols and principles of up-to-date methodology and laboratory techniques are discussed in lectures and practiced in the laboratory. Prerequisites: Placement above or co-registration in MATH-S110, and co-registration or credit in BIOL-108, CHEM-113 or PHYS-211. Fall.

NTSC-C152(1.5). Natural Science Interdisciplinary Laboratory II. This course is a continuation of NTSC-C151. Methods and instrumentation of laboratory investigation that are common to the disciplines of biology,

chemistry and physics will provide the focus for student development of a standard set of laboratory skills and techniques. Successful completion of NTSC-151 and 152 is equivalent to one semester hour each of introductory biology, chemistry and physics laboratories. Prerequisites: NTSC-C151, co-registration or credit in MATH-111, and co-registration or credit in BIOL-108, CHEM-113 or PHYS-211, or consent of instructor. Spring.

NTSC-C153(1.5). Natural Science Interdisciplinary Laboratory III. This course is intended to introduce students to the practice of research in the natural sciences. Students use methods and techniques that were acquired in NTSC-151 and 152. Emphasis is placed on training students to design their own experimental approaches to accomplish a specific research task in a real laboratory setting. Research topics are chosen with an attempt to obtain original, perhaps publishable, research results. Students are encouraged to make original contributions, including—in addition to executing experiments—experimental design, library searches, computerized simulations and written descriptions. Students will construct bibliographies, model data multiple ways, modify experimental protocols and prepare formal oral and written reports as the semester progresses. Students collaborate in groups in carrying out different aspects of the project. Prerequisites: NTSC-C152, MATH-111 or consent of instructor. Fall.

NTSC-C154(1.5). Natural Science Interdisciplinary Laboratory IV. This course is a continuation of NTSC-C153. Upon completion of a research project, students will participate in a mini-scientific conference and journal publication. Students will write up results of their projects in a format suitable for publication in a journal which they will then peer-review and edit. In addition, students will prepare oral and/or poster presentations of their results for presentation in their own conference. Prerequisite: NTSC-C153. Spring.

NOTE: Satisfactory completion of NTSC-C151-154 (six credits), a four semester interdisciplinary laboratory sequence, constitutes Benedictine University's introductory laboratories in biology, chemistry and physics.

Nuclear Medicine Technology (NMTC) Courses

NMTC-303(3). Clinical Correlation: Anatomy, Physiology and Pathology. The human organ systems as treated in the application of nuclear medicine.

NMTC-305(2). Radiation Safety Regulation and Protection. Properties of alpha, beta and gamma radiations, their effects upon human beings and methods for protecting patients and staff from unnecessary exposure and possible injury.

NMTC-307(3). Radiation Detection-Instrument. Structure, operating characteristics and practice of nuclear radiation detection instruments and radioisotope handling devices used in medical diagnosis and therapy.

NMTC-309(1). Applied Technical and Basic Math. A study of the expected variations in results depending on the choice of radionuclide, instrument and patient.

NMTC-311(1). Administrative, Management Method and Hospital Orientation. A survey of hospital administration procedures including medical terms and ethics. Records and procedures required by federal, state and professional regulatory agencies to ensure proper: (1) acquisition, handling, application, storage and disposal of radioactive materials, (2) awareness of radiation dosages received by patients and staff and (3) functioning of detection equipment.



NMTC-313(5). Nuclear Medicine Imaging Practicum II. The supervised use of radionuclides in imaging and scanning of patients for diagnostic purposes.

NMTC-318(2). Quality Control Practicum. Elution of Mo/Tc generator, preparation and testing of radiopharmaceutical products. Gamma Camera uniformity, relative sensitivity and spatial linearity and resolution testing. The use of flood field and bar phantoms on *in vivo* imaging detectors in the nuclear medicine imaging laboratory.

NMTC-320(3). Fundamentals of Atomic And Nuclear Physics. Properties of alpha, beta and gamma radiations, their origins and interactions with matter, their detection and measurement, their control and shielding and the statistics of counting.

NMTC-322(2). Radiobiology. Cellular and organ responses to radiation sources and radionuclides employed in nuclear medicine.

NMTC-324(5). Nuclear Medicine Imaging Practicum I. The supervised use of radionuclides in imaging and scanning of patients for diagnostic purposes.

NMTC-328(3). Computer Science-Theory and Practice. A study of data collection, reduction and enhancement by computer methods.

NMTC-330(4). Nuclear Pharmacy-Principles and Practices. The chemical, physical and biological properties of radiopharmaceuticals are discussed.

NMTC-390(0). Independent Study. Independent projects under the direction and supervision of a member of the clinical staff.

Affiliated Hospital:
Hines VA Hospital-Hines, Illinois.

Nursing and Health (NRHL) Courses

NRHL-C100(3). Topics in Health Care. Explores contemporary issues and problems of health and health care. Content varies to provide the opportunity to study current problems. For non-majors. Periodically.

NRHL-200(3). Nursing Transitions. Introduces the philosophy and concepts of baccalaureate nursing. Emphasis is placed on the nursing process and supporting theories. Fall and spring.

NRHL-C213(3). Health Aspects of Aging. Studies the normal aging process in American society. Emphasizes health maintenance in normal aging and availability of, and access to, health resources. (See SOCL-C213.) Periodically.

NRHL-250(3). Introduction to Statistical Analysis. Covers basic statistical concepts including frequency distribution, central tendency, variability, normal curve and product-moment correlation. Consideration of two-group analysis via parametric and non-parametric methods. Prerequisite: MATH-S105, S108 or S110. (See graduate catalog STAT-511.)

NRHL-278(3). Management. Fundamental principles and practices of the health care enterprise are utilized to consider planning, organizing, implementing and controlling in management. (See MGT 300.) Spring.

NRHL-290(4). Health Assessment. Presents the theory and process of health assessment. Focuses on history, physical examination, screening tests and resultant nursing diagnoses. Clinical Lab provides for application of skills. Prerequisite: NRHL-200. Fall and spring.

NRHL-295(3). Research. Explores the research process as it applies to nursing and health care. Emphasis is placed on analysis and critique of research studies. Prerequisite: credit or co-registration in NRHL-250. Fall and spring.

NRHL-300(3). Holistic Nursing. Uses a caring framework and emphasizes non-traditional approaches appropriate to the care of clients with acute or chronic complex health problems. Fall.

NRHL-301 (3). Family Health Nursing. Provides students with a foundation in the concepts/theories of family health care nursing. Selected clinical experiences emphasize application of family nursing principles. Prerequisite: NRHL-290. Fall and spring.

NRHL-311(3). Community Health Nursing. Explores the physical, social, economic and environmental factors which affect the health of a community. Selected field experiences emphasize on applying nursing process to population groups and communities. Prerequisite: NRHL-295. Spring.

NRHL-320(3). U.S. Health Care System. Multidisciplinary examination of various aspects of the existing health care industry in the U.S. including the impact of managed care on process and outcome. Also explores the governmental and economic influences on the system. (See graduate catalog MPH-602.)

NRHL-380(2). Selected Topics in Professional Nursing. Relevant topics according to the needs and interests of nursing majors. Periodically.

NRHL-390(3). Contemporary Issues. Focuses on the role of the professional nurse in an interdisciplinary environment. An issues-based approach integrates previous knowledge and emphasizes use of creativity, divergent and critical thinking and assumption challenging. Prerequisite: NRHL-311. Spring.

NRHL-395(1-4). Independent Study. Guides independent study in theoretical or clinical aspects of nursing. Prerequisite: consent of instructor. Each semester.

Nutrition (NUTR) Courses

NUTR-C100(3). Impact of Nutrition. For non-majors. An introduction to nutrients; cultural, socioeconomic and other influences on nutrition intake; impact of nutrition on health status; and issues of hunger and malnutrition. Each Semester. IAI L1 904.

NUTR-145(3). Food Science and Applications I. (lecture and laboratory.) A study of the physical and chemical composition, structure and functional properties of carbohydrate; quality procurement, preparation and sensory evaluation principles; and applications to food and nutritional health. Prerequisite: a chemistry course. Fall.

NUTR-190(1-3). Selected Topics in Nutrition. Special topics in nutrition adjusted to the needs of students. Periodically. Topics may be changed so that the course may be repeated for credit.

NUTR-C241(3). General Nutrition. A life cycle approach to nutrition science: incorporates nutrient availability, function and sources; energy balance; health risk factors; and special nutrient needs for various stages of the life cycle. Each semester.

NUTR-245(3). Food Science and Applications II. (lecture and laboratory.) A study of the physical and chemical composition, structure, and functional properties of PROTEIN and FAT; quality procurement, preparation and sensory evaluation principles; and applications to food and nutritional health. Can be taken before or after NUTR-145. Prerequisite: a chemistry course. Spring.

NUTR-246(1). Experimental Foods Laboratory. Experimental application of physiochemical behavior of food. Includes recipe development/research. Prerequisite: NUTR-145. Spring.

NUTR-250(2). Foodservice Operations. Principles of: menu planning, procurement, production, distribution and service; sanitation and safety; quality improvement; and layout and design. Prerequisite: credit or co-registration in NUTR-145 or C241. Fall.

NUTR-271(3). Nutrition Education. Nutrition education for groups and individuals in clinical and community settings. Includes discussion and experience in applying learning and counseling theories, assessing educational needs, stating goals and objectives, selecting learning activities, implementing and evaluating instruction. Prerequisite: Credit or registration in NUTR-C241. Fall.

NUTR-280(3). Community Nutrition. Identification of current public health nutrition problems; influence of socioeconomic, cultural and psychological factors on food and nutrition behavior; available community programs; program development and marketing; and the implications of public policy legislation. Prerequisites: NUTR-C241 and 271. Spring.

NUTR-290(1-3). Selected Topics in Nutrition. Special topics adjusted to the needs of the students. Topics may be changed so that the course may be repeated for credit. Periodically.

NUTR-295(1). Nutrition Teaching Practicum. Supervised teaching in nutrition laboratories. Prerequisite: Nutrition majors only and consent of instructor. May be repeated for credit. Each semester.

NUTR-296(1-3). Nutrition Services in the Community Practicum. Experience designed to meet interest of an individual student and serve a community need. Off-campus site. Transportation is required. Prerequisite: Nutrition majors only. May be repeated for credit. Each semester.

NUTR-297(2-3). Quantity Foods Practicum. Supervised experience in foodservice operations and management, with emphasis on areas related to menu

planning, food purchasing, cost control and production, quality improvement and applied sanitation and safety. May be at off-campus sites. Transportation may be required. Prerequisite: NUTR-250, 3.0 G.P.A. and nutrition majors only. Each semester.

NUTR-298(1). Cultural Foods Practicum. Supervised class experience in foods. Applications of cultural menu planning, procurement, production and service of food. Prerequisite: nutrition majors only. May be repeated for credit. Fall/Spring.

NUTR-341(4). Nutrition in Health and Disease. Physiological and biochemical aspects of nutrient metabolism; interrelationships between cellular reactions, nutrition and health; biochemical and physiological principles of nutrition for sport, obesity, eating disorders, alcohol metabolism, inborn errors, immunity, cancer, the nervous system and trauma. Prerequisite: NUTR-C241; and BCHM-C261 or 361. Spring.

NUTR-350(3). Food and Nutrition Services Management. Key concepts of organization and management in food and nutrition services including: fiscal control; performance measurements; human resource and information management; legislation; and marketing. Prerequisite: NUTR-250. Spring.

NUTR-371(3). Therapeutic Nutrition. Pathology, treatment and nutritional therapy of chronic and acute diseases. Prerequisite: BIOL-258 and NUTR-C241. Fall.

NUTR-372(2). Clinical Nutrition Assessment Lab. Supervised class experience to include assessment and screening techniques, medical record reviews, care plan development and documentation techniques. Part of the course is at an off-campus site. Transportation is required. Prerequisite: credit or registration in NUTR-371. Fall.

NUTR-373(1). Advanced Menu Planning Lab. Applied process of translating the nutritional needs into menus for healthy persons and those with special dietary considerations, throughout the life span. Includes management and quality improvement principles. Prerequisites: NUTR-250; and credit or co-registration in NUTR-371. Fall.

NUTR-381(3). Health Behavior. An overview of social, psychological and biological determinants of human health behavior and behavior change methods. Prerequisite: Admission to the MPH 4H Program and consent of DPD program director. Fall quarter.

NUTR-382(3). U.S. Health Care System. (MPH 602 in the graduate catalog.) Multidisciplinary examination of various aspects of the existing health care industry in the U.S. including the impact of managed care on process and outcome. Also explores governmental and economic influences on the system. Prerequisite: admission to the MPH 4+1 program; and consent of DPD program director. Winter quarter.

NUTR-383(3). Ethical and Political Issues. (MPH 603 in the graduate catalog.) Focuses on political, ethical and economic analysis of the organization of public health efforts at the international, national, state and local levels. Prerequisite: admission to the MPH 4+1 program; consent of DPD program director. Spring quarter.

NUTR-390(1-3). Selected Topics. Special topics in nutrition adjusted to the needs of the students. Topics may be changed so that the course may be repeated for credit. Periodically.

NUTR-392(1). Writing and Evaluating Nutrition Literature. Evaluation of written nutrition literature. Techniques of writing nutrition information for public and professional audiences. Prerequisite: RHET-102; NUTR-145 or C241; and Junior/Senior standing. Spring.

NUTR-395(1). Nutrition Education Practicum. Applied education and counseling methods and principles. Prerequisite: Credit or registration in NUTR-271. Nutrition majors only. Each semester.

NUTR-396(1-3). Specialized Nutrition Practicum. Supervised experience designed to meet the interest of an individual student. May be at off-campus sites. Transportation may be required. Prerequisite: nutrition majors only. May be repeated for credit. Each semester.

NUTR-397(2-3). Clinical Nutrition Practicum. Supervised individualized experience in clinical dietetics. Includes needs assessment, nutrition care plan development, case study and documentation. Off-campus site. Transportation is required. Prerequisite: NUTR-371, 372, 373, Nutrition majors only. 2.8 minimum G.P.A.. Each semester.

NUTR-398(1). Nutrition Research Methods. Principles and application of the research process, as applied to nutrition. Prerequisite: NUTR-C241 and BIOL-229 or PSYC- 150. Nutrition majors only. Fall/spring.

NUTR-399(1-3). Nutrition Research. An original nutrition project that is conducted on or off campus. Prerequisite: NUTR-398, Nutrition majors only. May be repeated for credit. Each semester.

Philosophy (PHIL) Courses

PHIL-C120(3). Greek Philosophy. An historical introduction to Greek thought. Fall. IAI H4 901.

PHIL-191(3). Selected Topics. Special philosophical issues offered at the introductory level according to the interest of faculty and students. Periodically.

PHIL-C205(3). Philosophy of Human Nature. Investigation of the classic questions regarding the human person: unity, freedom, death and immortality, mind-body relation and community. Spring.

PHIL-C210(3). Philosophy of Being. Examination of the basic principles of reality which affect all thought: change and permanence, unity in diversity, the meaning of existence, goodness, truth and beauty, the categories of being and the analogy of being. Fall.

PHIL-C215(3). Theory of Knowledge. Analysis of the nature, possibility, foundations and extent of human knowledge. Fall.

PHIL-C230(3). American Philosophy. Survey of American philosophy from the Colonial period to the present, with emphasis on classical pragmatism. Periodically.

PHIL-C240(3). General Ethics. Investigation of ethical concepts and theories and an analysis of the norms of ethical decisions. Spring. IAI H4 904.

PHIL-C245(3). Biomedical Ethics. Investigation of ethical questions pertaining to health and medicine. Basic ethical theory is examined as it applies to selected issues and cases. Recommended for majors in the health sciences and related fields. Each semester.

PHIL-C250(3). Business Ethics. Introduction to moral philosophy and its interrelationships with economic theory and business. Fall.

PHIL-C260(3). Social and Political Philosophy. Inquiry into the nature of political society, authority, law, human rights and responsibility. Satisfies the ethics requirement of the program of economics and business.

PHIL-291(3). Selected Topics. Special philosophical issues offered at the intermediate level according to the interest of faculty and students. A topics course may apply toward the divisional core.

PHIL-295(1-3). Independent Study. Special philosophical issues offered according to the interest of faculty and students. Prerequisite: Consent of instructor.

