

## Course Additions and Changes to 2008-2010 Academic Catalog

**Catalog text change:** On Page 35 of 2008-2010 catalog, the text pertaining to Meistersinger overloads should read as follows. "Music majors and Meistersinger Scholarship recipients who enroll in Applied Music: Private Instruction (MU 140, 240, 340; MU 150, 250, 350; MU 160, 260, 360; MU 170, 270, 370; MU 180, 280, 380; or MU 190, 290, 390) and whose enrollment for a specific term is greater than 4.5 course credits may receive a refund of the tuition overload charge up to .5 course credits (based on the course credit of applied lessons)."

**Courses added:** • BA 433 • BA 449 • CA 211 • CH 422 • ED 151 • ED 152 • ED 221 • ED 223 • ED 384 • ED 489 • EN 218 • EN 231 • EN 260 • EN 335 • ES 195 • ES 230 • ES 295 • ES 310 • ES 320 • ES 350 • ES 360 • ES 395 • ES 399 • ES 450 • ES 460 • ES 495 • GM 105 • ID 321 • MA 105 • MU 107 • MU 207 • MU 235 • PE 266 • PHY 320 • PS 209 • PSY 330 • SP 316 • SP 317

**Courses with catalog changes:** • AC 121 • AC 122 • AC 421 • AC 425 • ART 108 • ART 210 • ART 310 • BA 353 • BA 364 • BA 435 • BA 436 • BA 438 • BA 488 • BI 131 • BI 135 • BI 151 • BI 152 • BI 211 • BI 311 • BI 312 • BI 325 • BI 405 • BI 416 • BI 450 • BI 455 • BI 461 • BI 470 • CA 270 • CA 304 • CA 305 • CA 320 • CA 325 • CA 335 • CA 349 • CA 488 • CH 113 • CH 211 • CH 212 • CH 371 • CH 372 • CH 470 • CS 100 • EC 342 • EC 364 • ED 214 • ED 284 • ED 355 • ED 356 • ED 361 • ED 452 • ED 481 • ED 486 • EN 150 • EN 201 • EN 202 • EN 205 • EN 206 • EN 208 • EN 209 • EN 221 • EN 251 • EN 313 • EN 314 • EN 315 • EN 316 • EN 317 • EN 331 • EN 401 • EN 403 • EN 460 • EN 470 • FL 104 • FL 470 • FR 104 • FR 106 • FR 204 • FR 206 • FR 371 • FR 460 • GER 104 • GER 106 • GER 204 • GER 206 • GER 305 • GER 314 • GER 450 • GER 460 • GM 275 • GM 301 • HE 344 • HE 440 • HI 282 • HI 318 • HI 320 • ID 309 • ID 322 • ID 373 • LS 115 • MA 110 • MU 105 • MU 106 • MU 205 • PE 252 • PE 254 • PE 351 • PE 356 • PHY 101 • PHY 130 • PHY 132 • PHY 170 • PHY 470 • PS 450 • PSY 135 • PSY 210 • PSY 211 • PSY 225 • RE 255 • RE 324 • RE 325 • SO 101 • SO 422 • SP 104 • SP 106 • SP 204 • SP 206 • SW 101 • TH 403 • TH 450 • WS 150 • WS 282 • WS 314 • WS 375

**Courses no longer offered:** • ART 206 • ART 212 • BA 354 • BA 356 • BA 448 • BI 205C • BI 205E • BI 301 • BI 309 • BI 401 • ED 220 • ED 222 • EN 151 • EN 330 • EN 360 • GER 205 • GER 315 • GM 311 • ID 311 • ID 335 • SP 100 • SP 205

**Special Topics offered in 2009-10:** • BI 295 • CA 395 • EC 295 • EN 295 • EN 395 • GM 295

**Courses with a change in department and/or number:**

<i>Prev. Number</i>	<i>Title</i>	<i>New Number</i>
ART 225	Advanced Drawing and Painting	ART 301
ART 275	Drawing and Painting in Italy	ART 375
BA 277	Nonprofit Management	BA 377
BA 354	Advertising and Promotion	BA 454
SW 230	Community Theory and Practice	SW 330

**Program Additions (Applies to students who matriculate beginning Fall 2010):**

- 5-12 All Social Studies Endorsement

**Major Program Changes:**

- American History Education Major
- Applied Music (BA) Major
- Art Major

- Art Education Major
- Biology Major
- Biology Teaching Major
- Biochemistry Major
- Business Administration Major
- Business Administration Major – Finance Concentration
- Business Administration Major – Management Concentration

- Business Administration Major – Marketing Concentration
- Business Administration Major – Sport Management Concentration
- Chemistry Major
- Chemistry Teaching Major
- Church Music Major
- Communication Arts – Electronic Media Concentration
- Communication Arts – Print Media Concentration
- Communication Arts – Public Relations Concentration
- Communication Design Major
- Community Sociology Major
- Computer Information Systems Major
- Elementary Education Major
- Engineering Science Major
- English Teaching Major
- English Major
- French Major
- French Studies Major
- French Teaching Major
- German Major
- German Studies Major
- German Teaching Major
- History Major
- International Relations Major
- Music Education Major
- Music Performance (BM) Major
- Music Therapy (BM) Major
- Music Therapy (BME) Major
- Religion Major
- Religion Major – Camping Ministry Concentration
- Religion Major – Pre-Seminary Concentration
- Religion Major – Urban Ministry Concentration
- Religion Major – Youth and Family Ministry Concentration
- Social Work Major
- Spanish Teaching Major

- Spanish Major
- World History Education Major
- Writing Major

#### Minor Program Changes

- Business Minor
- Chemistry Minor
- Communication Design Minor
- English Literature Minor
- German Minor
- History Minor
- Intercultural Studies Minor
- Music Minor
- Religion Minor
- Social Entrepreneurship Minor
- Social Welfare Minor
- Writing Minor

#### Endorsement Changes

**K-6 endorsements are now K-8**

**7-12 endorsements are now 5-12**

- K-8 Early Childhood
- K-8 German
- K-8 Language Arts
- K-8 Spanish
- 5-12 American History
- 5-12 Chemistry Endorsement
- 5-12 German
- 5-12 Health (replaces K-6 and 7-12 Health)
- 5-12 Language Arts
- 5-12 Minor End American History for Social Science Teaching
- 5-12 Minor End Science Teaching
- 5-12 Reading
- 5-12 Spanish

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**AC 121 Principles of Accounting I:** Classifying and recording business transactions, understanding assets, liabilities, revenues, and expenses. Preparation and analysis of financial statements. Prerequisite: Math 90 competency.

**AC 122 Principles of Accounting II:** Determining the cost of products, including job order costing, standard costing, direct costing, and activity-based costing. Decision making based on cost behavior patterns. Capital budgeting, cash flows, and ratio analysis. Prerequisite: AC 121.

**AC 421 Advanced Accounting:** Accounting concepts and procedures related to preparation of consolidated financial statements. Financial accounting for partnerships, foreign currency transactions, translation of foreign currency financial statements, segments of consolidated entities. Winter Term odd years. Prerequisite: AC 321.

**AC 425 Auditing:** Professional practice standards, including ethical and legal responsibilities. Procedures for evaluating internal controls and gathering audit evidence. Reporting responsibilities for audit and review engagements. Fall Term even years. Prerequisite: AC 322 or instructor approval.

**ART 108 Graphic Design:** Introduction to software commonly used for desktop publishing and graphic design. Development of skills using software and the application of these skills to design projects. Fee.

**ART 210 Communication Design II:** Continued exploration of graphic design and information design. History of graphic design; advanced typography; web and multimedia techniques. Winter Term. Fee. Prerequisite: ART 205 with a B- or higher.

**ART 301 Advanced Drawing and Painting:** Advanced work with drawing or painting media exploring relationships of form and content in the figure, still life, space, and abstraction. Readings, research, presentations, studio production. Six contact hour course. May repeat for credit. Fall Term even years. Prerequisites: ART 111, ART 201.

**ART 310 Advanced Design Projects:** Application of technical and aesthetic expertise to graphic design and/or web design projects. Emphasis on portfolio and application of skills to individual goals. Fee. May repeat for credit. Fall Term. Prerequisite: ART 210 or instructor approval.

**ART 375 Drawing and Painting in Italy:** Studio production teamed with art historical and cultural observations. Museum visits, personal observations and studio art projects, immersion in Italian culture. Interconnected: Humanities/Fine Arts. Diversity. May Term every third year. Prerequisites: ART 111; ART 250 or ART 251; GM 275.

**BA 353 Principles of Marketing:** Techniques and strategies used to develop new products and promotions and to determine prices and channels of distribution. Introductory topics of marketing research, consumer behavior, advertising, sales, product management, international marketing. Group project. Prerequisite: Second-year standing; EC 101, EC 102 recommended.

**BA 364 Bank Management:** Identical with EC 364. Overview of banking industry management, including role of banks in society, asset-liability management techniques, and services provided to customers. Includes trip. May Term even years. Fee. Prerequisites: Two courses from BA 334, BA 435, EC 317, EC 342.

**BA 377 Nonprofit Management:** Emphasis placed on nonprofit organizational types, trustee responsibilities, trustee recruitment/termination/development, financing structure, fundraising, financial management, employee empowerment, strategic planning, and leadership. Winter Term. Prerequisite: Second-year standing; EC 101 or EC 102 recommended.

**BA 433 Trends in Marketing:** Current marketing approaches. Contemporary readings outlining marketing trends. Interaction with business community. Some off-campus travel. May Term odd years. Fee. Prerequisite: BA 353.

**BA 435 Financial Modeling and Valuation:** Continuation of BA 334. Risk-return trade off, project evaluation, cost of capital, leverage, dividend policy, derivatives, international financial management. Prerequisites: BA 334; CS 102; EC 342.

**BA 436 Trends in Business Management:** Current management approaches. Contemporary readings outlining management techniques. Interaction with business community. Some off-campus travel. May Term. Fee. Prerequisite: BA 345 or BA 377.

**BA 438 Organizational Behavior and Management:** Introduction to managing human behavior in organizations. Individual behavior, interpersonal relationships, small groups, intergroup relations, leadership, change. Students apply concepts to realistic problems and dilemmas and evaluate their efforts by utilizing management concepts, theories, reasonings, guidance. Prerequisite: BA 345 or BA 377.

**BA 449 Organizational Leadership:** Focus on how leaders influence others to achieve organizational goals. Expands knowledge of multiple theories of leadership and develops leadership competencies. Fall Term. Prerequisites: Third- or fourth-year standing; BA 345 or BA 377.

**BA 454 Advertising and Promotion:** Focus on how leaders influence others to achieve organizational goals. Expands knowledge of multiple theories of leadership and develops leadership competencies. Fall Term. Prerequisites: Third- or fourth-year standing; BA 345 or BA 377.

**BA 488 E-Business Practicum:** Identical with CA 488. Application of BA/CA 388 in E-Business environment. E-Business planning, Web consulting, project coordination, Web design, Web site development and marketing. P/D/F only. Prerequisite: Third- or fourth-year standing; BA/CA 388 or instructor approval.

**BI 131 Biology of Ordinary Things:** Observations of ordinary phenomena connected to basic biological and chemical concepts. Development of explanatory models using various forms of scientific representations. Laboratory work required. Not applicable toward major. Recommended for elementary education majors. Interconnected: Natural Science. Winter Term.

**BI 135 Biology of the Mind:** Identical with PSY 135. Introduction to the study of the brain. Emphasis on the neural basis of behavior and cognition. Laboratory work required. Not applicable toward biology major. Interconnected: Natural Science. Fall Term.

**BI 151 Biology I: Ecosystems, Cells, & Evolution:** Introductory course providing a background in ecosystems, cell biology, evolution, and genetics with a laboratory experience that produces skills necessary for success in biology. Recommended for science majors. Credit cannot be obtained in both BI 101 and BI 151. Interconnected: Natural Science. Fall Term.

**BI 152 Biology II: Phylogeny, Structure, & Function:** Evolutionary survey of the structure and function of all levels of life. Laboratory work required. Scientific Reasoning. Winter Term. Prerequisite: BI 151.

**BI 211 Genetics:** Mendelian genetics with a focus on the molecular-biochemical nature of inheritance. Laboratory work with drosophila, computer simulations, and nucleic acid analysis. Laboratory work required. Interconnected: Natural Science. Prerequisite: BI 151.

**BI 295 Special Topics: Bahamian Ecology:** Field biology course in San Salvador, Bahamas including the biology and ecology of coral reefs and hypersaline lakes. Includes significant field work as part of research projects. May Term even years. Prerequisite: BI 152 or instructor approval.

**BI 295 Special Topics: New Zealand Ecology and Maori Culture II:** Explores New Zealand ecosystems through field research and visiting natural areas. Experience Maori culture. Visit a native bird sanctuary. P/D/F only. May Term odd years. Prerequisite: BI 152 and GM 295 New Zealand Ecology and Maori Culture I.

**BI 311 Mammalian Anatomy and Physiology I:** Detailed study of the structure and function of the neural, endocrine, reproductive, and digestive systems. Cadaver anatomy, medical terminology, and Problem-Based Learning activities included in the laboratory. Primarily for preprofessional health students. Credit cannot be obtained for both BI 311-BI 312 and BI 202. Fall Term. Prerequisite: BI 152.

**BI 312 Mammalian Anatomy and Physiology II:** Detailed study of the structure and function of the respiratory, cardiovascular, renal and musculoskeletal systems. Cadaver anatomy, medical terminology, and Problem-Based Learning activities included in the laboratory. Primarily for preprofessional health students. Credit cannot be obtained for both BI 311, BI 312 and BI 202. Winter Term. Prerequisite: BI 152.

**BI 325 Behavioral Ecology:** Introduction to study of animal behavior. Emphasis on role of evolution in shaping animal behavior. Laboratory and field work required. May Term. Prerequisite: BI 211.

**BI 405 Immunology:** Role of immunologic mechanisms in health and disease. Immune system, immune response, biologic amplification, factors regulating immunologic processes. Brief review of known and theoretical bases for immunologic diseases. May Term. Prerequisite: BI 211.

**BI 416 Molecular Biology of Cancer:** Understand cancer through the study of processes at the molecular level with expanded study of the cell, tissue, and organism level. Laboratory work required. Winter Term. Prerequisites: BI 211 and two semesters of chemistry.

**BI 450 Independent Study:** Instructor-approved independent study or research.

**BI 455 Methods of Biological Research:** Methods of scientific study. Searching the literature, hypothetico-deductive method, research process, data collection and analysis, preparation of figures and tables, writing process. Literature critiques and research proposal required. Prerequisite: Third- or fourth-year standing or department approval.

**BI 461 Science Seminar:** Weekly seminar sequence exploring historical, ethical and interdisciplinary elements of biology. Team-taught using lecture/discussion format. Capstone. P/D/F only. Prerequisite: Third- or fourth-year standing.

**BI 470 Secondary Content Methods: Science:** Identical with CH 470 and PHY 470. Designed to precede secondary student teaching with emphasis on introducing, developing, and practicing discipline-specific pedagogy and reviewing general teaching methods. Fall Term even years. Prerequisites: ED 229 and admission to Teacher Education Program.

**CA 211 Video Production:** Introduction to fundamentals of video production. Theory and hands-on use of cameras and editing equipment. Practicum experience.

**CA 270 Communication Perspectives :Gender & Sexuality:** Exploration of various gender theories, concepts, worldviews, controversies, and modern communicative practices. Interconnected: Social Science. Diversity. Winter Term even years.

**CA 304 Media Marketing and Management:** Examination of the media economics, including sales, marketing, management, ownership, regulation, programming. Prerequisite: CA 200.

**CA 305 Reporting For Print Media:** Emphasis on news writing for newspapers and magazines, using reporting principles of gathering information and journalistic style. Class contributes to The Circuit and/or The Trumpet. Writing Intensive. Winter Term. Prerequisites: CA 100, CA 200.

**CA 320 Advanced Broadcast Production:** Application of acquired production knowledge and skills. Production of programs using digital video and audio systems. Emphasis on preproduction, production, and postproduction phases to provide for a variety of content. Prerequisite: CA 312.

**CA 325 Advanced News Writing:** Emphasis on writing in-depth news stories, editorials and columns. Class contributes to The Circuit and/or The Trumpet. Writing Intensive. Fall Term odd years. Prerequisites: CA 100, CA 200, CA 305.

**CA 335 Editing for Print Media:** Emphasis on editing copy, photographs, illustrations. Layout design, headlining, production of printed publications using appropriate software. Class contributes to The Circuit and/or The Trumpet. Fall Term even years. Prerequisite: CA 100, CA 200, CA 305 or instructor approval.

**CA 349 Online Journalism:** Emphasis on writing, editing, analyzing copy for online publication using journalistic values and style. Prerequisite: CA 200.

**CA 395 Special Topics: Reporting Techniques:** In-depth study of significant specialty in journalistic reporting. May repeat for credit. Prerequisite: CA 305 or CA 312 or CA 346.

**CA 488 E-Business Practicum:** Identical with BA 488. Application of BA/CA 388 in E-Business environment. E-Business planning, Web consulting, project coordination, Web design, Web site development and marketing. P/D/F only. Prerequisite: Third- or fourth-year standing; BA/CA 388 or instructor approval.

**CH 113 Principles of Chemistry I:** Stoichiometry, atomic structure and theory, chemical structure and bonding, energy relationships, equilibria systems, descriptive inorganic chemistry, introductory chemical thermodynamics and chemical kinetics. Scientific Reasoning. Fall Term. Prerequisites: High school chemistry and concurrent enrollment in calculus or instructor approval.

**CH 211 Organic Chemistry I:** Nomenclature, synthesis, and reactions of alkenes, alkynes, alkyl halides and organic radicals. Reaction mechanisms, spectroscopic methods of characterization, structural and theoretical concepts. Credit cannot be obtained in both CH 205 and CH 211-CH 212. Fall Term. Prerequisite: CH 114.

**CH 212 Organic Chemistry II:** Nomenclature, synthesis, and reactions of alcohols, ethers, carbonyl-containing compounds and amines. Reaction mechanisms, spectroscopic methods of characterization, structural and theoretical concepts. Credit cannot be obtained in both CH 205 and CH 211-CH 212. Winter Term. Prerequisite: CH 211.

**CH 371 Internship:** Integration of course work experience with planned and supervised chemistry-related employment in the area of the students' career objectives. Oral presentation and written report required on campus. P/D/F only. Possible off-campus costs. Prerequisites: Third- or fourth-year standing, 2.0 cumulative and major GPA, and department approval.

**CH 372 Internship:** Integration of course work experience with planned and supervised chemistry-related employment in the area of the students' career objectives. Oral presentation and written report required on campus. P/D/F only. Possible off-campus costs. Prerequisites: Third- or fourth-year standing, 2.0 cumulative and major GPA, and department approval.

**CH 422 Advanced Analytical Chemistry:** Gas chromatography, reverse phase and normal phase high performance liquid chromatography (HPLC), size exclusion and ion exchange chromatography. Fluorescence and Raman spectroscopy, biosensors, nanoparticles. Winter Term even years. Prerequisite: CH 217.

**CH 470 Secondary Content Methods: Science:** Identical with BI 470 and PHY 470. Designed to precede secondary student teaching with emphasis on introducing, developing, and practicing discipline-specific pedagogy and reviewing general teaching methods. Fall Term even years. Prerequisites: ED 229 and admission to Teacher Education Program.

**CS 100 Survey of Computer Applications:** Hands-on experience with word processing, spreadsheet, database, graphics, simulations, World Wide Web. Overview of computing from microcomputers to supercomputers, history of computing, networks, artificial intelligence, social issues. Not applicable toward a computer science or computer information systems major. Prerequisite: MA 90 competency.

**EC 295 Special Topics: Economics of Peace and Justice:** Explores foundations of peace and conflict studies, concepts of peace, the relationship between size of countries and level of conflicts, and an array of conflict interventions including conflict management and resolution. Diversity.

**EC 342 Financial Markets and Modern Money:** Analysis of stock, bond, and derivative markets and their relationship to the economy as well as to modern banking and monetary/fiscal policymaking institutions. Prerequisites: EC 101, EC 102; MA 214 or MA 313.

**EC 364 Bank Management:** Identical with BA 364. Overview of banking industry management, including role of banks in society, asset-liability management techniques, and services provided to customers. Includes trip. May Term even years. Fee. Prerequisites: Two courses from BA 334, BA 435, EC 317, EC 342.

**ED 151 North American Geography:** Study of the physical, economic, and human geography in North America. Emphasis is placed on the connection of geography to the other social sciences, especially as it relates to the preparation of pre-service secondary school teachers.

**ED 152 World Geography:** Study of the physical, economic, and human geography in various regions of the world. Emphasis is placed on the connection of geography to the other social sciences, especially as it relates to the preparation of pre-service secondary school teachers.

**ED 214 Introduction to Mild and Moderate Disabilities:** Etiologies and characteristics of mild and moderate disabilities, trends in programming, alternatives, services, instructional support. Fall Term. Prerequisites: ED 100, ED 181. Corequisite: ED 284.

**ED 221 Teaching Elementary Social Studies:** Content, strategies, and instructional techniques for teaching the social studies curriculum in elementary schools. Prerequisite: ED 100.

**ED 223 Language Development:** Developmental process of language acquisition, including linguistic analysis of the major phonological, semantic, syntactic, and pragmatic components of American English. Emphasis on language variations related to cultural and linguistic diversity, the unique needs and backgrounds of students with language differences and delays, and the learning of Standard English by all learners. Fall Term.

**ED 284 Field Experience: Mild & Moderate Disabilities:** Twenty-five hours in a classroom working with students with mild and moderate disabilities. P/D/F only. Fall Term. Prerequisites: ED 100, ED 181. Corequisite: ED 214.

**ED 355 Early Childhood: Family & Community Relations:** Exploration of effective partnerships with families and community resources. Examines the role of families, communities, businesses, and agencies in enriching, expanding, and organizing programs of early childhood care and education. May Term even years. Prerequisite: ED 354 or ED 356. Corequisite: ED 481.

**ED 356 Curriculum Development and Guidance of Young Children:** Guidance, curriculum, methodology, programs that facilitate learning and development of young children. Selecting, planning, creating, implementing, evaluating developmentally appropriate content, methods, materials. Fall Term odd years. Prerequisites: Third-year standing; ED 223; PSY 210; admission to Teacher Education Program.

**ED 361 Middle School Curriculum:** Overview of curriculum developments in the middle school. Recent trends affecting middle school curriculum. Winter Term odd years. Prerequisite: ED 100; admission to Teacher Education Program. Corequisite: ED 384.

**ED 384 Field Experience: Middle School:** Twenty-five hours in middle school math, science, language arts, and social studies classrooms. Participation with middle school curriculum and students. P/D/F only. Winter Term odd years. Corequisite: ED 361.

**ED 452 Culture and Pedagogy of American Schools:** Designed for secondary students to take the semester prior to student teaching. Focuses on preparation to student teach, school improvement, teaching as a profession, and classroom management. Prerequisites: ED 229, admission to Teacher Education Program. Corequisite: ED 491.

**ED 481 Early Childhood Practicum:** Fifty-hour practicum in a preschool or daycare setting. P/D/F only. May Term even years. Prerequisite: ED 354 or ED 355. Corequisite: ED 355.

**ED 486 K-12 Physical Education Student Teaching and Capstone Seminar (2-4 course credits):** Seven to fourteen weeks of full days teaching elementary and secondary physical education with participation in the total program of the schools. Capstone. P/D/F only. Prerequisites: ED 452, Admission to Teacher Education Program, approval for student teaching.

**ED 489 5-12 Health Student Teaching:** Seven weeks of full days teaching in health at the 5-12 level. P/D/F only. Corequisite: ED 486.

**EN 150 Introduction to Literature:** Introduction to the principal forms of literary texts. Beginning study of literary genres, terminology, critical approaches, analysis, and writing about literature. Interconnected: Humanities/Fine Arts.

**EN 201 British Writers I:** Beginnings to 1785. Fall Term even years.

**EN 202 British Writers II:** 1785 to the present. Winter Term even years.

**EN 205 Survey of World Literature I:** Ancient through Renaissance. Early Middle Eastern, Mediterranean, European, Asian, African, Mesoamerican traditions. Interconnected: Humanities/Fine Arts. Diversity. Fall Term odd years.

**EN 206 Survey of World Literature II:** Eighteenth century to present. Europe, Asia, Africa, Middle East, Latin America. Interconnected: Humanities/Fine Arts. Diversity. Fall Term even years.

**EN 208 Survey of American Literature I:** Colonial to Civil War. Interconnected: Humanities/Fine Arts. Fall Term even years.

**EN 209 Survey of American Literature II:** Civil War to the present. Interconnected: Humanities/Fine Arts. Winter Term odd years.

**EN 218 Introduction to the Graphic Novel:** Encourages understanding on the flexibility of the comic medium. Explores cross-cutting culture themes such as creativity, history, expressive arts, and literature. Interconnected: Humanities/Fine Arts. May Term even years.

**EN 221 Fiction Writing:** Experiments in fiction with analysis, criticism, suggestions for improvement. Writing of short stories. Workshop format. Writing Intensive. Winter Term.

**EN 231 Introduction to Myth and Folklore:** Exploration of myth and folklore in cross-cultural context. Theoretical approaches; archetypes; myth structure; folktales; popular culture. Interconnected: Humanities/Fine Arts. Diversity. May Term odd years.

**EN 251 Introduction to Film:** Film as a visual, auditory, and narrative form of cultural representation. Focus on techniques and/or history, as well as films that enact cinema's role as a vehicle for mass cultural values. Interconnected: Humanities/Fine Arts. Fall, May, and Summer Terms.

**EN 260 Exploratory Seminar:** Focused consideration of selected genres, authors, eras, or themes. May repeat for credit with different focus. May Term. Prerequisite: EN 150 or instructor approval.

**EN 295 Special Topics: Writing Metropolis:** Exploration of writing about the city with travel to a major metropolis. Students will explore sites significant to urban literature and meet writers working in the metropolis. Interconnected: Humanities/Fine Arts. Diversity. May Term. Prerequisite: EN 112.

**EN 313 Contemporary Literature:** Close reading of contemporary literature and contextual documents. Interconnected: Humanities/Fine Arts. Fall Term even years. Prerequisite: EN 150 or instructor approval.

**EN 314 Major Women Writers:** Identical with WS 314. Survey of major women writers and the context of their writing. Writing of critical papers. Seminar format. Diversity. May Term even years. Prerequisite: EN 150 or instructor approval.

**EN 315 Modern Literature and Culture:** Origins and development of important modern literary ideas, forms, and movements. Critical analysis of major modern writers and contextual documents. Writing Intensive. Interconnected: Humanities/Fine Arts. Fall Term odd years. Prerequisite: EN 150 or instructor approval.

**EN 316 Shakespeare:** Close study of Shakespeare's major plays. Winter Term odd years. Prerequisite: EN 150 or instructor approval.

**EN 317 British Novel:** Close study of representative novels from the 18th to the mid-20th century. Winter Term odd years. Prerequisite: EN 150 or instructor approval.

**EN 331 Structure of English:** Study of the structure, development, and history of English. Fall Term.

**EN 335 Advanced Research Writing:** Extended research and textual analysis in various forms. Beneficial for students entering graduate or professional programs. Writing Intensive. Winter Term even years. Prerequisite: EN 112 or EN 152.

**EN 395 Special Topics: Multiethnic American Literature:** Survey of ethnic American literature focusing on two or more ethnic traditions. Writing Intensive. Interconnected: Humanities/Fine Arts. Diversity. Prerequisite: EN 150 or instructor approval.

**EN 401 Seminar:** In-depth study of a literary period, author, genre, or theme. Fall Term odd years. Prerequisite: EN 150 or instructor approval.

**EN 403 Survey of Drama:** Identical with TH 403. Study of representative plays from the classical Greek to modern American periods. Close reading of texts. Emphasis on the development of drama and its historical and social contexts. Interconnected: Humanities/Fine Arts. Winter Term even years. Prerequisite: EN 150 or instructor approval.

**EN 460 Capstone Seminar:** Focuses on student demonstration of writing research skills and ability to engage with current issues in the discipline. Seminar format. Writing Intensive. Capstone. Prerequisite: EN 150 or instructor approval.

**EN 470 Secondary Content Methods:** English/Journalism: Designed to precede secondary student teaching with emphasis on introducing, developing, and practicing discipline-specific pedagogy and reviewing general teaching methods. Fall Term. Prerequisites: ED 229; admission to Teacher Education Program.

**ES 195 Special Topics:** Topics and credits vary. See course schedule.

**ES 230 Engineering Economics Analysis:** Engineering cost-benefit estimation. Interest and equivalence. Present worth, annual cost, and rate of return analysis. Depreciation and taxes. Replacement costs. Fall Term odd years. Prerequisite: ES 103.

**ES 295 Special Topics:** Topics and credits vary. See course schedule.

**ES 310 Dynamics:** Kinematics and kinetics of particles and rigid bodies. Newtonian, work-energy, and impulse-momentum methods. Fall Term odd years. Prerequisite: ES 205.

**ES 320 Engineering Materials:** Chemical, electrical, mechanical, and physical properties of materials. Metals, ceramics, polymers, and composites. Failure and degradation. Winter Term odd years. Prerequisites: CH 113, ES 205.

**ES 350 Engineering Design Methods:** Introduction to the engineering design process. Problem formulation. Preliminary, concept, configuration, parametric, and detail design processes. Manufacturing processes, material selection, and prototyping. Safety, failure, environmental impact, and human factors. May Term. Prerequisites: ES 103 and three ES courses numbered 200 and above.

**ES 360 Preliminary Design Project:** Student design project. Problem selection and formulation. Research of existing products/designs. Initial generation of alternatives, analysis, and selection. Oral and written presentation of design reports. May be taken up to three times. Writing intensive. Prerequisites: ES 350, third-year standing.

**ES 395 Special Topics:** Topics and credits vary. See course schedule.

**ES 399 Supplemental Instruction: Engineering Science:** Teaching practicum in a specific area of study. Student SI leaders participate in leader training, attend classes for which they serve as leaders, prepare and lead study sessions that reinforce course content, model and teach effective study strategies. P/D/F only.

**ES 450 Independent Study:** Instructor-approved independent study or research.

**ES 460 Senior Design Project:** Detail design and realization of prototype or system. Oral, written, and poster presentation. Writing intensive. Winter Term. Prerequisite: ES 360 with a B or higher.

**ES 495 Special Topics:** Topics and credits vary. See course schedule.

**FL 104 Elementary Swahili/Twi/Chinese:** Beginning course. Basic vocabulary and grammatical structures. Emphasis on conversational competency. Foreign Language. Prerequisite: None. Corequisite: Participation in the Diers Program in Tanzania (Swahili), Ghana (Twi), or China.

**FL 470 Secondary Content Methods: Foreign Languages:** Designed to precede secondary student teaching with emphasis on introducing, developing, and practicing discipline-specific pedagogy and reviewing general teaching methods. Fall Term. Prerequisites: ED 229; admission to Teacher Education Program.

**FR 104 Elementary French I:** Instruction for developing proficiency in speaking, writing, reading and listening comprehension. Interaction and completion of communication tasks in a culturally sensitive immersion setting. Foreign Language.

**FR 106 Elementary French II:** Continued instruction for developing proficiency in speaking, writing, reading and listening comprehension. Interaction and completion of communication tasks in a culturally sensitive immersion setting. Foreign Language. Winter Term. Prerequisite: FR 104 or two years of high school study or instructor approval.

**FR 204 Intermediate French I:** Review of basic structures. Development of proficiencies in speaking, writing, reading and listening comprehension. Study of culture and contemporary issues. Emphasis on student interaction and completion of communication tasks in an immersion setting. Foreign Language. Fall Term. Prerequisite: FR 106 or three years of high school study or instructor approval.

**FR 206 Intermediate French II:** Development of proficiencies in speaking, writing, reading and listening comprehension. Study of culture and contemporary issues. Emphasis on student interaction and completion of communication tasks in an immersion setting. Foreign Language. Winter Term. Prerequisite: FR 204 or four years of high school study or instructor approval.

**FR 371 Internship:** Integration of acquired language skills applied to tasks such as travel planning, coordinating housing, transportation, cultural outings, etc. during May Term abroad. P/D/F only. May Term. Prerequisites: Third-year study abroad and instructor approval.

**FR 460 Capstone Seminar: French:** In-depth exploration of contemporary critical theories and ethical issues in the study of French language and literature. Writing Intensive. Capstone. Prerequisite: Third-year study abroad.

**GER 104 Elementary German I:** Introduces basic vocabulary and language structures and develops proficiency in speaking, listening, reading, and writing in the context of German culture. Emphasis on interactive activities, personalized expression, and practical applications in an immersion setting. Foreign Language.

**GER 106 Elementary German II:** Continued study and application of vocabulary and language structures in a communicative context. Builds on the language skills acquired in GER 104 to achieve greater elementary level proficiency. Further study of culture and focus on personalized, practical student interaction. Foreign Language. Winter Term. Prerequisite: GER 104 or two years of high school study or instructor approval.

**GER 204 Intermediate German I:** Review of basic structures and further development of speaking, writing, reading and aural comprehension skills. More advanced study of the culture of German-speaking countries, including German reunification. Emphasis on personalized communication in an immersion setting. Foreign Language. Fall Term. Prerequisite: GER 106 or two to four years of high school study or instructor approval.

**GER 206 Intermediate German II:** Continued review and practice of language structures and instruction toward intermediate level proficiency in speaking, writing, reading, and aural comprehension. Deepening study of more complex cultural/literary readings and contemporary issues. Interactive activities in an immersion setting. Foreign Language. Winter Term. Prerequisite: GER 204 or four years of high school study or instructor approval.

**GER 305 German for the Professions:** German communication skills for the workplace. Focus on American/German comparative professional practices and culture. Product design, presentation, and marketing relevant for various professional interests. Preparation for internships. Conducted in German. Diversity. Fall Term every third year. Prerequisite: GER 206 or instructor approval.

**GER 314 Minority Experience in German Society:** Multidisciplinary study of marginal ethnic and racial groups in Germany and their impact on the advancement of pluralistic German identity as seen through modern literature, film, and fine arts. Conducted in German. Interconnected: Humanities/Fine Arts. Diversity. Winter Term every third year. Prerequisite: GER 206 or instructor approval.

**GER 450 Independent Study:** Research in German studies under the guidance of an instructor. All work done in German. Prerequisite: Department approval.

**GER 460 Capstone Seminar: German:** In-depth exploration of ethical, historical, philosophical dimensions of the literature and film of German-speaking countries. Writing Intensive. Capstone. Winter Term. Prerequisite: Third-year study abroad.

**GM 105 German Language and Culture in Eisenach:** Conversational German and culture for internships in Eisenach, Germany. P/D/F only. May Term. Prerequisite: GER 104. Corequisite: Enrollment in Eisenach internship.

**GM 275 Italian Art and Culture:** Orientation and prerequisite for ART 375. Introduction to Italian art, culture and history. Requires enrollment in ART 375 for May Term. P/D/F only. Winter Term every third year.

**GM 295 Special Topics: New Zealand Ecology and Maori Culture I:** Orientation course in preparation for BI 295 New Zealand Ecology and Maori Culture II in May Term. Reviews and applies basic ecological theories to New Zealand ecosystems. Learn about Maori culture, religion, and natural history. Winter Term odd years. Prerequisite: BI 152.

**GM 301 Return Adjustment:** Processing and reinforcement of domestic or global immersion experiences. Return adjustment, incorporation of immersion experience into personal and professional goals. Suitable for international students returning home. Recommended for students involved in learning experiences in different cultural contexts and for Venture Education participants. Prerequisites: GM 201 and participation in a cultural immersion, or instructor approval.

**HE 344 Foundations of Health Education:** Foundations, directions of contemporary health education. Ethical principles and their application in health education, development of skills necessary to facilitate personal health behavior change, understanding of relationship between health theories and their application in health settings. Winter Term odd years. Prerequisite: ED 100.

**HE 440 Community and Public Health:** Overview of community health. Nature, principles, functions of voluntary and governmental health organizations. Impact of political, sociological, economic factors on human health. Winter Term even years.

**HI 282 Venus, the Virgin, and the Venerable Mother:** Identical with WS 282. The role of women's contributions and their relative status in various cultures through primary source reading and research. Diversity. Alternate years.

**HI 318 Hitler's Germany:** Examines the rise of Hitler and the Nazis, life in the Third Reich, World War II and the Holocaust, and the historical legacy of Hitler. Interconnected: Humanities/Fine Arts. Fall Term.

**HI 320 Investigating Germany's Past Abroad:** Exploration of Germany's past through on-site investigation of architecture and historical sites as well as personalities and events from the Roman period to the present in Germany. May Term. Fee. Prerequisites: GM 319; instructor approval. Corequisite: GM 320.

**ID 309 Problems of War and Peace:** Interdisciplinary exploration of the nature of modern war, its roots and historical evolution. Issues of ethics and collective choice raised by alternative visions of a more peaceful future. Writing Intensive. Prerequisite: Third- or fourth-year standing.

**ID 321 Crisis Communication:** A systematic look at crisis communication. The communicative art surrounding a crisis response, the changes to crisis management in a technological age, and the sociological repercussions of crisis recovery. Writing Intensive. Winter Term even years. Prerequisite: third- or fourth-year standing.

**ID 322 The Anthropology of the Pilgrimage: The Medieval Roads to Santiago de Compostela:** Examines the scope, relevance, and expression surrounding the Medieval epic journeys to Santiago de Compostela through travel from southeastern France through northern Spain. Diversity. Prerequisite: Third- or fourth-year standing.

**ID 373 Contemporary (Ethnic) Culture:** Study of a contemporary culture as observed and experienced during a full term of immersion in a culture. Examines the culture's attitudes toward nature, social interactions, and world views as expressed in art and life. P/D/F only. Fee. Prerequisite: Third- or fourth-year standing. Corequisite: Participation in a full-term cultural immersion.

**IS 101 Asking Questions, Making Choices:** Development of critical inquiry and communication skills as students take responsibility for their learning and actions within the context of a Wartburg liberal arts education. Must be completed in the first year. Writing Intensive. Prerequisite: EN 111 or concurrent enrollment.

**LS 115 Exploring Elements of Leadership:** Introduction to the study of leadership as an academic discipline. Critical evaluation of Wartburg's leadership definition and exploration of its potential for meeting the college's commitment to leadership and service. Interconnected: Social Science.

**MA 105 The Mathematics of Games:** Exploration into mathematic aspects of various games of strategy and chance including logic, counting techniques, probability, and statistics. Experience with mathematical modeling including gathering data, making conjectures, and testing strategies of play. Mathematical Reasoning. May Term every third year. Prerequisite: MA 90 competency.

**MA 110 Structures of Mathematics:** Number theory, the rational number system, graphing, measurement, geometry. Designed for prospective elementary school teachers but open to any student satisfying prerequisite. Mathematical Reasoning. Prerequisite: MA 90 competency.

**MU 105 Music Theory I:** Elementary theory and ear training concepts. Seventh chords, figured bass, music vocabulary, chord structure, voice leading, melodic harmonization. Sight singing. Melodic and harmonic aural dictation. Fall Term.

**MU 106 Music Theory II:** Intermediate theory and ear training concepts. Figured bass, non-harmonic devices, secondary chords, cadence and phrase structure, modulation, mode mixture, chromatic harmonies. Winter Term. Prerequisite: MU 105. Corequisite: MU 107.

**MU 107 Aural Skills I:** Sight singing of tonal and atonal music. Identification and dictation of intervals, melodies, rhythms, chords, and harmonic progressions. Winter Term. Prerequisite: MU 105. Corequisite: MU 106.

**MU 205 Music Theory III:** Advanced theory concepts, form, counterpoint, advanced chromaticism, higher-partial chords. Fall Term. Prerequisite: MU 106. Corequisite: MU 207.

**MU 207 Aural Skills II:** Advanced ear training and sight singing. Sight singing of tonal and atonal music. Identification and dictation of intervals, melodies, rhythms, chords, and harmonic progressions. Fall Term. Prerequisite: MU 107. Corequisite: MU 205.

**MU 235 Clarinet Literature and Pedagogy:** Examination of the major performance literature and available pedagogy materials for the clarinet. Every third year.

**PE 252 Physical Education for Elem Grades:** Organization, administration, content of a developmental physical education curriculum for grades K-8. Program planning. Repertoire of activities emphasizing total development. Fall Term. Prerequisite: ED 100.

**PE 254 Physiology of Exercise:** Scientific basis for training and conditioning. Exercise effects on the human body. Fall Term. Prerequisite: BI 202 or BI 312.

**PE 266 Coaching Theory: Soccer:** Fundamental techniques of a specific sport along with strategies, training methods. Development of coaching philosophy. Winter Term even years.

**PE 351 Kinesiology:** Study of muscular and skeletal systems. Emphasis on anatomy, structure, basic biomechanics. Winter Term. Prerequisite: BI 202 or BI 312.

**PE 356 Strength and Conditioning:** Design and implementation of strength and conditioning programs for individuals in school and/or fitness/wellness settings. Winter and May Term.

**PHY 101 General Physics I:** Mechanics, heat and fluids. Algebra/trigonometry-based course satisfying requirements for preprofessional courses in physical therapy, dentistry, medicine. Scientific Reasoning. Fall Term. Prerequisite: MA 90 competency; MA 190 or one semester of calculus recommended.

**PHY 130 Physics of Ordinary Things:** Observations of ordinary phenomena to develop basic physical concepts. Various forms of scientific representations are used to develop explanatory models. Laboratory work required. Intended for elementary education majors. Scientific Reasoning. Fall Term.

**PHY 132 Earth Science:** Basic elements of geology and meteorology using local environments as much as possible. Laboratory and field work. Interconnected: Natural Science. Fee. May Term odd years.

**PHY 170 Astronomy:** Structure of physical universe, emphasis on development and evolution of our understanding over time, impact on various civilizations. Planetary science, stellar evolution, galaxies, exotic phenomena. Laboratory work, telescopic observation, computer simulation. Interconnected: Natural Science.

**PHY 320 Statistical Mechanics and Thermal Physics:** A rigorous treatment of classical thermodynamics, and introduction to statistical mechanics including quantum statistics, canonical and grand canonical ensembles, general properties of the partition function, and applications of statistical mechanics to fluid and solid systems. Winter Term even years. Prerequisite: PHY 207 or concurrent enrollment.

**PHY 470 Secondary Content Methods: Science:** Identical with BI 470 and CH 470. Designed to precede secondary student teaching with emphasis on introducing, developing, and practicing discipline-specific pedagogy and reviewing general teaching methods. Fall Term even years. Prerequisites: ED 229 and admission to Teacher Education Program.

**PS 209 State and Local Government in Denver:** Experiential learning course provides students the opportunity to study state and local government in an urban setting. Students are assigned to field placement sites and bring this experience into classroom discussions. Interconnected: Social Science. Diversity. May Term even years. Fee.

**PS 450 Independent Study:** Independent additional study. Preparation of major scholarly paper. Must be approved and supervised by political science faculty member.

**PSY 135 Biology of the Mind:** Identical with BI 135. Introduction to the study of the brain. Emphasis on the neural basis of behavior and cognition. Laboratory work required. Not applicable toward biology major. Interconnected: Natural Science. Fall Term.

**PSY 210 Child Development:** Physical, social, cognitive, emotional development of children from prenatal phase to age 12. Theories of development and their application to child rearing and education. Credit cannot be obtained in both PSY 210 and PSY 225. Fall Term. Prerequisites: PSY 101, second-year elementary education major or instructor approval.

**PSY 211 Adolescent Development:** Physical, social, cognitive, emotional development during adolescent years, ages 11 to 22. Theories of development and their application to educating and working with adolescents. Credit cannot be obtained in both PSY 211 and PSY 225 unless instructor permission is obtained. Fall Term. Prerequisites: PSY 101, second-year secondary education major or instructor approval.

**PSY 225 Life Span Human Development:** Physical, emotional, social, mental development of the individual throughout life. Growth, change, decline influenced by genetics, environment, maturation, learning. Credit cannot be obtained in either PSY 210 or PSY 211 and PSY 225. Instructor permission can be obtained to receive degree credit for both PSY 211 and PSY 225. Fall Term. Prerequisites: PSY 101; second-year standing.

**PSY 330 Cross-Cultural Psychology:** A multi-cultural examination of various psychological concepts, such as emotions, cognition, physical and mental health. Diversity. Winter Term odd years. Prerequisite: PSY 101.

**RE 255 Urban Ministry:** Analysis of the church's mission in the city. Includes experiences with social justice ministries and study of spiritual, economic, political, and social contexts using an action-reflection model. Denver or other urban setting. Interconnected: Social Science. Diversity. P/D/F only. May Term. Fee.

**RE 324 Religious Traditions of Immigrant Communities:** Exploration of how and why various Christian and non-Christian religious communities made their way to the Denver area, examination of their history and beliefs, how they have fared since their arrival, and what impact they have had on the wider community. Writing Intensive. Faith and Reflection. Diversity. Prerequisite: acceptance into Wartburg West program.

**RE 325 Christian Faith and Politics in America:** Explores the role of religion, specifically Christian, in American politics from social, historical, legal, and biblical perspectives. Active engagement in political issues and processes arising in the context of Colorado. Writing Intensive. Faith and Reflection. Prerequisite: acceptance into Wartburg West Program.

**SO 101 Introduction to Sociology:** Survey of the diverse field of sociology, introducing concepts, methods, principles that help in understanding such social processes and institutions as culture and socialization, group dynamics, social inequality, families, educational systems, social change. Interconnected: Social Science.

**SO 422 Field Sociology:** Supervised field research in North American locations. Qualitative research methods with an emphasis on case study, participant observation and interview techniques. Writing Intensive. May term odd years. Prerequisite: SO 321, PSY 321 or SW 321.

**SP 104 Elementary Spanish I:** Instruction toward proficiency in speaking, writing, reading, and aural comprehension. Study of culture with attention to contemporary issues. Emphasis on student interaction and completion of language tasks in an immersion setting. Foreign Language.

**SP 106 Elementary Spanish II:** Instruction toward proficiency in speaking, writing, reading, and aural comprehension. Study of culture with attention to contemporary issues. Emphasis on student interaction and completion of language tasks in an immersion setting. Foreign Language. Prerequisite: SP 104.

**SP 204 Intermediate Spanish I:** Continued instruction toward proficiency in speaking, writing, reading, and aural comprehension. Deepening study of culture with attention to contemporary issues. Emphasis on student interaction and completion of language tasks in an immersion setting. Foreign Language. Fall Term. Prerequisite: SP 106.

**SP 206 Intermediate Spanish II:** Continued instruction toward proficiency in speaking, writing, reading, and aural comprehension. Deepening study of culture with attention to contemporary issues. Emphasis on student interaction and completion of language tasks in an immersion setting. Foreign Language. Winter Term. Prerequisite: SP 204.

**SP 316 Hispanic Women:** Studies the work of Hispanic women in the Hispanic world. Focuses on women's contributions in the fields of art, politics, literature, and film. Emphasis on student involvement in class and individual projects. Winter Term odd years. Prerequisite: SP 261 or instructor approval.

**SP 317 Cinemas of Latin America:** Explores key issues in the Latin-American national cinemas of the 20th and 21st centuries, especially gender, race, class, family, and migration. Introduces film analysis across Spanish America, Brazil, and the United States. Conducted in Spanish. Winter Term every third year. Prerequisite: SP 261 or instructor approval.

**SW 101 Intro Social Work and Social Welfare:** Overview and history of social welfare. Problems of individuals, families, resource agencies with which social workers have contact. Interconnected: Social Science.

**SW 330 Community Theory and Practice:** Examination of community dynamics using different theoretical and cultural perspectives. Development of knowledge and skills needed to mobilize resources to meet community needs. Fall Term. Prerequisite: SW 101.

**TH 403 Survey of Drama:** Identical with EN 403. Study of representative plays from the classical Greek to modern American periods. Close reading of texts. Emphasis on the development of drama and its historical and social contexts. Interconnected: Humanities/Fine Arts. Winter Term even years. Prerequisite: EN 150 or instructor approval.

**TH 450 Independent Study:** Supervised study on special project or research.

**WS 150 Introduction to Women's Studies:** Introduction to basic concepts, terms, approaches to the interdisciplinary field of women's studies. Consideration of historical and contemporary construction of gender as also shaped by race and class. Impact of language, education, family, religion, etc., on our understanding of "women." Alternative pedagogy, strong emphasis on collaborative learning models. Interconnected: Humanities/Fine Arts. Diversity. Fall Term odd years.

**WS 282 Women in Early World History:** Identical with HI 282. The role of women's contributions and their relative status in various cultures through primary source reading and research. Diversity. Winter Term even years.

**WS 314 Major Women Writers:** Identical with EN 314. Survey of major women writers and the context of their writing. Writing of critical papers. Seminar format. Diversity. May Term even years. Prerequisite: EN 150 or instructor approval.

**WS 375 Feminist Theories:** Theoretical approaches to gender analysis. Feminist theories from a broad spectrum of disciplines and cultures that explore the intersection of gender with race and class. Historical development of feminist theory, contemporary criticism, social and cultural evolution of constructions of gender, family history, moral development, politics, aesthetics. Seminar format. Fall Term even years. Prerequisite: WS 150.