GER 314. German-English Technical/Commercial Translation. 3 credits.
German-English translation applied in several commercial (i.e., marketing, finance) and technical (i.e., electricity and electronics, software, hardware) fields. Focus will be on the acquisition of specialized knowledge (both linguistic and extralinguistic) and the delivery of professional documents in real-market conditions. Fulfills the College of Arts and Letters writing-intensive requirement for the major. Prerequisite: GER 300 or equivalent.

GER 375. Business and Society in Germany. 3 credits.
The course explores the development of Germany's society in the historical, political and economic contexts. In this course several aspects will be investigated: agricultural; textile; fashion; wine industry; motion picture, music, and media industries; and import and export products. In addition, the course will include the study of banking and financial institutions, and health and education systems. Instruction is in German. Prerequisite: GER 300.

GER 400. Advanced Conversation. 3 credits.
Discussions deal with topics of current interest. Prerequisite: GER 300 or permission of the instructor.

GER 405. The Age of German Classicism. 3 credits.
Reading and interpretation of significant works of Lessing, Goethe and Schiller. Instruction is in German. Prerequisite: GER 300 or permission of the instructor.

GER 415. German Romanticism and Realism. 3 credits.
A study of Romanticism and Realism with emphasis on Romantic poetry and the Realistic novel. Instruction is in German. Prerequisite: GER 300 or permission of the instructor.

GER 425. Modern German Literature. 3 credits.
A study of the works of major German writers of the 20th century. Instruction is in German. Prerequisite: GER 300 or equivalent.

GER/ENG 438. Studies in German Literature. 3 credits.
A study of selected works of German literature. Instruction is in English. May be repeated for credit when course content changes.

GER 446. Special Topics in German Literature. 3 credits.
Study of a particular topic in German literature. It may cover all or specific German literature genre. Course may be repeated. Prerequisite: GER 300.

GER 447. Special Topics in German Civilization and Culture. 3 credits.
Students will study a particular topic in the civilization and/or culture of Germany. Course may be repeated. Prerequisite: GER 300.

GER 448. Topics in German Linguistics. 3 credits.
Students will study a particular topic in German linguistics. Topics could include an introduction to German sociolinguistics and psycholinguistics. Course may be repeated. Prerequisite: GER 300.

GER 465. German Cinema. 3 credits.
An analysis of the German cinema from the 1920s through the present. Emphasis will be on the relations between the German film and certain seminal periods in German history. Prerequisite: GER 300 or permission of the instructor.

Gerontology

GERN/SOCI 280. Social Gerontology. 3 credits.
An interdisciplinary introduction to the study of aging. The course provides an overview of issues surrounding aging in contemporary society: personal, familial, communal and societal. Corequisite: 20 hours of community service-learning.

GERN 305. Programs and Services for the Elderly. 3 credits.
A review of the programs and services provided for the elderly in the public and private sectors of America. Observations and participation in local programs for the elderly will be required. Prerequisite: GERN/SOCI 280.

GERN/FAM/SOWK 375. Grant Writing for Agencies. 3 credits.
Emphasizing active learning, this course teaches the basics of grant and proposal writing. Efficient research, persuasive prose and the importance of relationships are stressed. Private and corporate philanthropy and government grants are examined.

GERN 400. Skills and Techniques in Gerontological Assessment. 3 credits.
The study of the skills and techniques used in assessing the elderly client. Assessment is made from the holistic approach: physical, psychological and social. Prerequisite: GERN/SOCI 280.

GERN 487. Special Topics in Gerontology. 3 credits.
Examination of selected topics in gerontology that are of current importance in the field of gerontology. Course may be repeated for credit.

GERN 490. Special Studies in Gerontology. 1-3 credits.
Independent study in gerontology under faculty supervision. Limited to gerontology minors. Can be repeated for credit. Prerequisites: GERN/SOCI 280, GER 305 and GER 400 or permission of the instructor.

GERN 495. Field Experience/Seminar in Gerontology (1-6). 3 credits.
Supervised field experience in gerontology settings that allows observation and experience with the well and frail elderly. A minimum of six hours in the assigned setting each week and one hour seminar on campus. Prerequisites: GERN/SOCI 280, GER 305 and GER 400, major elective, and approval of the gerontology minor advisor.

Graphic Design

All 200-level GRAPH courses are limited to declared art, art history, graphic design and architectural design majors during the fall and spring semesters. GRAPH courses at the 300-level and above are restricted to graphic design majors. During May and summer sessions, 200-level GRAPH courses are open to all students who meet the additional stated course prerequisites. Non-majors wishing to enroll in GRAPH 200, GRAPH 202 or GRAPH 206 during fall and spring semesters may request permission of the instructor.

Introduction to graphics on the computer. Students will explore hardware and software that relate to the presentation of graphic design projects and computer generated imaging. Prerequisites: ART 102 and ART 104 or permission of the instructor.

GRAPH 202. Design Methodology (0, 9). 3 credits.
Exploration of strategies for conceptualizing, analyzing and solving design problems. Emphasis is placed on graphic presentation of ideas and the creative process. Prerequisite: ART 102.

GRAPH 206. Introduction to Typography (0, 9). 3 credits.
An introduction to the study of letter forms for their aesthetic and communicative value. Typographic fundamentals of alphabet history, type classification, printing technology effects, font design, visual space, hierarchy, and grid systems will be explored. Prerequisite: GRAPH 200.

GRAPH 208. Portfolio Review. 0 credit.
Portfolio review required to enroll in graphic design courses at upper division standing. May be repeated once for pass/fail standing. Prerequisites: GRAPH 200 and GRAPH 202. Prerequisite or corequisite: GRAPH 206.

GRAPH 300. Illustration (0, 9). 3 credits.
Through demonstrations, theory and practical application, students are introduced to numerous media and illustrative techniques. Encouraged experimentation is tempered by an understanding of problem solving and conceptualization. Prerequisite: GRAPH 208.

GRAPH 304. Package Design (0, 9). 3 credits.
Through theory, demonstrations and practical application, students learn to design in three-dimensions. Focus will be placed on aesthetics, as well as the form and function of a product's housing. Prerequisite: GRAPH 208.

GRAPH 306. Intermediate Typography (0, 9). 3 credits.
An intermediate study of typography for its aesthetic and communicative value. Context effects on legibility and readability, type as image, type in sequence, and typographic systems will be explored. Prerequisite: GRAPH 208.

GRAPH 312. Web Design. 3 credits.
Introduction to Web design through theory and practical application. Assignments will focus on the unique form, content and structures associated with designing for the World Wide Web. Special emphasis on the creative process and the graphic presentation of ideas. Prerequisites: GRAPH 208.

GRAPH 313. Interactive Media. 3 credits.
Through theory, demonstration and practical application, students learn to design for visual interface design. Focus will be placed on digital, interactive media and bridging the gap between functionality and usability. Prerequisite: GRAPH 208.

GRAPH 340. Poster Design (0, 9). 3 credits.
Through theory and practical application, students learn to design for the poster realm. Focus will be placed on aesthetics, as well as form and function. Encouraged experimentation is tempered by an understanding of problem solving and conceptualization. Prerequisite: GRAPH 208.

http://www.jmu.edu/catalog/15
GRPH 375. Letterpress. 3 credits.
This studio course offers students an opportunity to engage in the process and product of letterpress printing through various techniques and conceptual approaches. Instruction focuses on text and image relationships by integrating metal and wood type, and other type-high surfaces. Emphasis will be placed on the acquisition of skills and vocabulary and the creative use of type and image. The course will address the history of letterpress and its contribution to contemporary art and design. Prerequisites: ART 276; Also for GRPH credit: GRPH 208.

GRPH/ART 376. Intermediate Book Arts: Concept, Content, Form. 3 credits.
This course challenges the student to develop a limited edition handmade artists’ book. The appropriate format for each individual’s concepts are identified, adapted, customized, applied, and produced. Content development, book design, integration of various media, and the functionality of various bookmarking materials are explored. We will consider the artists’ book as a sculptural form and locate it within the broader context of contemporary writing and visual art. Prerequisites: ART 276; ENG 391, ENG 392 or ENG 393. Also for GRPH credit: GRPH 306.

GRPH 390. Independent Studies in Graphic Design. 1-3 credits.
Offering varies.
Independent activity at the intermediate level, such as research or studio practice, under faculty supervision. Projected studies in any area of the school's offering must be arranged with the instructors who will direct them. Offered only with the consent of the instructor. Prerequisite: GRPH 208.

GRPH 392. Topics in Graphic Design. 3 credits. Offering varies.
Study of selected topics in graphic design at the intermediate level. May be repeated when course content changes. See MyMadison for current topics. Prerequisite: GRPH 208.

GRPH 406. Advanced Typography (0, 9). 3 credits.
An advanced study of typography for its aesthetic and communicative value. Topics of research, narrative, information design, format organization and production techniques will be explored. Solutions reflect advanced text and image integration knowledge through complex and variable structure development. Prerequisite: GRPH 306.

GRPH 408. Brand Identity. 3 credits.
Exploration of visual identities utilizing a holistic, systems approach to design. Introduces business strategies and design techniques associated with brand development. Emphasis is placed on methods of thinking, research and implementation. Prerequisite or corequisite: GRPH 406.

GRPH 410. Graphic Design Portfolio. 3 credits.
An examination of the business of graphic design, employment strategies and freelance opportunities. Focus is placed on solidification of the portfolio for employment and/or graduate school. This course is strongly recommended for the last semester prior to graduation. Prerequisite: GRPH 406. Prerequisite or corequisite: GRPH 408.

Independent activity, such as research or studio practice, under faculty supervision. Projected studies in any area of the school’s offering must be arranged with the instructors who will direct them. Offered only with the consent of the director. Prerequisite: GRPH 208.

GRPH 491. Studio Assistant. 1-3 credits, repeatable. Offering varies.
An on-campus program monitored on an individual basis designed to provide practical studio experience in the visual arts. Students will learn safe studio practices and management skills, including material use, inventory control, and the proper operation of equipment found within various individual classroom studios. Prerequisite: Permission of the instructor.

GRPH 492. Topics in Graphic Design. 3 credits. Offering varies.
Study of selected topics in graphic design at the advanced level. May be repeated when course content changes. See MyMadison for current topics. Prerequisite: GRPH 208.

GRPH 496. Internship in Graphic Design. 1-6 credits. Offered fall, spring and summer.
An off-campus program prepared and monitored on an individual basis. Internships are designed to provide practical experience in the arts. Prerequisites: Permission of the instructor and GRPH 208; students can only enroll for a maximum of 3 credits per Internship.

GRPH 499. Honors (1, 3, 2). 6 credits total for three semesters. Prerequisite: GRPH 208.

Greek

GRK 101. Elementary Greek I. 3-4 credits.
Designed to provide a reading knowledge of Classical Greek as well as New Testament koine. Greek life, thought and culture are stressed. Especially recommended for science, English and philosophy majors.

GRK 102. Elementary Greek II. 3-4 credits.
Designed to provide a reading knowledge of Classical Greek as well as New Testament koine. Greek life, thought and culture are stressed. Especially recommended for science, English and philosophy majors.

GRK 231. Intermediate Greek I. 3 credits each semester.
An intensive reading course. Selections from Classical Greek writers and/or the New Testament. Prerequisite: One year of college Greek or equivalent.

GRK 232. Intermediate Greek II. 3 credits.
An intensive reading course. Selections from Classical Greek writers and/or the New Testament. Prerequisite: GRK 231 or permission of the instructor.

Health

HTH 100. Personal Wellness. 3 credits. Offered fall, spring and summer.
Emphasizes lifestyle behaviors contributing to health promotion and disease prevention. General areas affecting health status are identified. Suggestions are made as to how health-related behaviors, self-care and individual decisions contribute to health and influence dimensions of wellness. May be used for general education credit.

HTH 150. Introduction to Health Sciences. 1 credit.
This course orient students in the major to foundational expectations and requirements for successful completion of the Health Science major and Health Studies concentration. The course introduces conceptual ideas such as a wide array of health careers, importance of gaining early and regular field experiences, and writing and research basics.

HTH 151. Foundations of the Health Sciences. 3 credits. Offered fall and spring.
Review of the basic competencies and foundations of the health sciences including academic planning, professionalism, writing and presentation skills, information literacy, foundational principles, and the roles and responsibilities of selected health science fields. This is intended to be the first course that a student takes in the health sciences major.

**HTH 204. Emergency Health Care (2, 2). 3 credits.
A survey of various dimensions of the legal aspects of emergency care, cardiopulmonary emergencies, hemorrhage control, wounds, shock, heat injuries and other health emergencies. Selected American Red Cross and American Heart Association certifications available.

** The American Red Cross registration fees apply.

HTH 206. Advanced Athletic Training. 3 credits.
This course involves advanced study of injuries associated with physically active individuals including injury mechanisms, signs and symptoms, and treatments. Other topics include relationships athletic trainers build with other health care professionals; environmental issues related to physical activity; and special needs of various populations. Prerequisites: BIO 290 and HTH 205.

HTH 210. Medical Terminology. 3 credits.
Study of terms that relate to body systems, anatomical structures, medical processes and procedures, and a variety of diseases/disorders that affect human organisms.

HTH 230. Community Health. 3 credits. Offered fall and spring.
An introduction to community health including its foundations, the tools of community health such as epidemiology, community organization, disease control and health promotion. The course focuses on the populations, settings and special issues of community health. Prerequisite: HTH 100.

HTH 231. Population Health Determinants. 3 credits.
Many factors combine together to affect the health of individuals and communities. In an effort to advance public health, health professionals must be cognizant not only of behaviors which may compromise or promote health, but also the interaction of social and physical factors which impact health outcomes.

HTH 245. Foundations of Infectious Disease. 3 credits.
An overview of the incidence, prevalence, causation, and prevention of the major infectious diseases which are currently of concern in the twenty-first century. Major signs and symptoms of the diseases as well as treatment will be reviewed. The course will also cover the body’s defense system and the principles of disease occurrence.