294. Seminar/Clinic: The Student as Learner
   First semester. Three credits. Prerequisite: ENGL 295 or 296. Open only to students in the Integrated Bachelor's/Master's Teacher Preparation Program. Integration of the concepts of learning, social and community issues, and exceptionality with clinical experiences.

295. Seminar/Clinic: The Student in the School Context
   Second semester. One credit. Prerequisite: EGEN 294. Open only to students in the Integrated Bachelor's/Master's Teacher Preparation Program. Integration of the concepts of learning assessment and exceptionality with area specific methods.

296W. Seminar/Clinic: Methods of Teaching
   First semester. Three credits. Prerequisite: EGEN 295. Open only to students in the Integrated Bachelor's/Master's Teacher Preparation Program. Integration of concepts of linguistic diversity, social and community issues, and exceptionality with clinical experiences.

297. Seminar/Clinic: Analysis of Teaching
   Second semester. Three credits. Prerequisite: EGEN 296 and open only to students in the Integrated Bachelor's/Master's Teacher Preparation Program. Analysis of instructional concepts and implementation in the clinical setting. Relationship of instruction to theory and implications for instructional evaluation are stressed.

298. Honors Seminar
   Either semester. Three credits. Prerequisite: Students must be accepted by the School of Education Honors Committee as candidates for Degrees with Distinction, Honors Scholars, or University Scholars. Can be repeated for credit.

299. Independent Study: Honors Thesis Preparation
   Either semester. Three credits. Prerequisite: Students must be accepted by the School of Education Honors Committee as candidates for Degrees with Distinction, Honors Scholars, or University Scholars. Can be repeated for credit.

299W. Independent Study: Honors Thesis Preparation
   Prerequisite: Students must be accepted by the School of Education Honors Committee as candidates for Degrees with Distinction, Honors Scholars, or University Scholars. ENGL 105 or 110 or 111 or 250.

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**Education Curriculum and Instruction (EDCI)**

*Head of Department: Professor Mary Anne Doyle*

*Department Office: Room 315, Gentry Building*

*For major requirements, see the Neag School of Education section of this Catalog.*

201. Introduction to Teaching
   First semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor's/Master’s Teacher Preparation Program. Introduction to the University of Connecticut's Integrated Bachelor's/Master’s Teacher Preparation Program. Includes the philosophical and theoretical foundations of the program, its structure and components, the nature and purposes of schooling, the relationship of the school and society, and recent educational reform movements, including the work of the Holmes Group and John Goodlad’s National Network for Educational Renewal, and the nature and purposes of “reflective practice” for the educational professional.

204. Introduction to Bilingual-Bicultural Education
   Semester by arrangement. Three credits. Goodkind

211. Curriculum and Teaching of Reading
   Semester and hours by arrangement. Variable credits, not to exceed three. Prerequisite: EGEN 294 and EGEN 295. Doyle, Irwin, Kaufman

212. Introduction to Outdoor Education
   Semester and hours by arrangement. Three credits. Goodkind

221. Teaching Reading and Writing in the Elementary School
   First semester. Three credits. Prerequisite: Open only to Elementary Education and Special Education majors. Doyle, Irwin, Kaufman

222. Teaching Mathematics in the Elementary School
   First semester. Two credits. Prerequisite: Open only to Elementary Education and Special Education majors. DeFranco, McGivney-Burelle

223. Teaching Science in the Elementary School
   First semester. Two credits. Prerequisite: Open only to Elementary Education and Special Education majors. Moss

224. Teaching Social Studies in the Elementary School
   First semester. Two credits. Prerequisite: Open only to Elementary Education and Special Education majors. A study of the organization of learning experiences and teaching methods emphasizing the social sciences as the foundation of the social studies.

231. Sociolinguistic Diversity and the Classroom
   Second semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Osborn, Reagan

232. Foundations of Education: Philosophical Tools for Teachers
   Second semester. One credit. Prerequisite: Open only to students in the Music Education Teacher Preparation Program. Reagan

233. Social and Community Issues in Education
   Second semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Mannehichh

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**EDUCATION**
273. Teaching Reading and Writing in the Content Areas
Second semester. Two credits. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Irwin
A study of the role of reading and writing in the learning of the content areas taught in secondary schools.

276. Directed Student Teaching
Either semester. Credits and hours by arrangement. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Application, signed by the advisor, must be made to the Coordinator of Student Teaching for the fall semester prior to March 1; for the spring semester prior to October 1.
Student teaching in selected elementary schools. Provides opportunities for students to observe teaching, to develop teaching skills through practice, and to engage in other school activities for which elementary teachers are responsible.

277. Directed Student Teaching
Either semester. Credits and hours by arrangement. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Application, signed by the advisor, must be made to the Coordinator of Student Teaching for the fall semester prior to March 1; for the spring semester prior to October 1.
Class meetings providing orientation to student teaching followed by teaching in schools supervised by a member of the staff of the Curriculum and Instruction Department. It is the policy of the department to extend its practice-teaching opportunity to a point sufficient to indicate adequately a student’s teaching ability and aptitude.

297. Computer Literacy
Either semester. Variable credit, not to exceed three. Prerequisite: Admission to the Neag School of Education.
This course will provide an introduction to the nature, functioning and application of microcomputers. The major languages typically used with microcomputers will be surveyed.

298. Variable Topics
Either semester. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.

299. Independent Study for Undergraduates
Either semester. Credits and hours by arrangement. Prerequisite: Open only to juniors and seniors with appropriate background for the study of education. Students must present the instructor with a problem well laid out for investigation. May be repeated for credit with a change in content.
Designed primarily for qualified students who wish to extend their knowledge in some specialized area.

Education Kinesiology (EKin)
Head of Department: Professor Carl M. Maresh
Department Office: Room 223, Sports Center

For major requirements, see the Neag School of Education section of this Catalog.
All EKin 200 level courses are open to EKin majors only or by consent of instructor.

160. Courses in Lifetime Sports Program
(Formerly offered as ESLE 160). Either semester. One credit. Two periods/week. Open to all University students. This course may be repeated with change of activity and/or skill level. Not to exceed 2 credits toward graduation. Students in the Department of Kinesiology may take up to six different activities for six credits toward graduation.
A variety of lifetime sports and skills are offered. The teaching of each activity will be geared to individual, dual, and team activities. The Lifetime Sports Program (EKIN 160) in the Neag School of Education, Department of Kinesiology, accommodates students who have physical disabilities in the least restrictive environment possible. Participants requiring accommodations should contact the Program Coordinator at (860) 486-3623.

161. Introduction to Athletic Training I
First semester. First seven weeks. One credit. Prerequisite: Open only to Pre-Athletic Training students who are sophomores or higher. Howard
A survey class to explore general considerations of recognizing and treating athletic injuries. This section covers training and conditioning, nutrition, environment, and legal issues.

162. Introduction to Athletic Training II
First semester. Second seven weeks. One credit. Prerequisite: Open only to Pre-Athletic Training students who are sophomores or higher. Howard
A survey class to explore general considerations of recognizing and treating athletic injuries. This section covers tissue healing, rehabilitation, modalities, taping, and bandaging.

201. Sport Camp Administration
(Formerly offered as ESLE 201). Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Morrone
All aspects of camp: program staff, campers, site and facilities, business and finance, risk management, support services, and marketing will be considered from the perspective of an administrator.

202. Theory of Coaching
First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Morrone
This course focuses on the development of both a coaching philosophy and the skills necessary to develop as a coaching professional. Various coaches, professors and guest speakers provide insight into the essential elements of coaching, including technical training, tactical awareness, physical fitness and psychological preparation.

204. Principles of Recreational Service
(Formerly offered as ESLE 204). First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Servedio
The evolution of present day recreational service, and basic concepts.

205. Introduction to Therapeutic Recreational Service
(Formerly offered as ESLE 205). First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Shivers
Recreational Rehabilitation for special populations. The practice of therapeutic recreational service for clients in treatment centers or communities.

206. Sport Administration I
First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Morrone
This course focuses on the many administrative roles the coach assumes when developing, maintaining and/or improving a sports program entrusted to him/her. The coach; the athlete; the program; facilities and equipment; academic and financial aid; scouting and recruiting; and, the media will be emphasized by professors, coaches and guest speakers.

207. Sport Administration II
Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Morrone
This course focuses on the many administrative roles the coach undertakes to involve the community in his/her sports program. The role of support groups; sport organizations; leagues and conferences; camps and clinics; local community relations; along with the relevance of youth, amateur and professional competition, are considered in depth by professors, coaches and guest speakers.

208. Skill Acquisition in Team Sports
Second semester. Two credits. Prerequisite: Open only to students in Kinesiology programs.
This course is designed to provide fundamental skills and tactical theories in various team sports.

209. Skill Acquisition in Individual Sports
Second semester. Two credits. Prerequisite: Open only to students in Kinesiology programs.
This course is designed to provide fundamental skills and tactical theories in various individual sports.

210. Exercise and Sport Science for Coaches
First semester. Four credits. Prerequisite: Open only to students in Kinesiology programs. Van Heest
This course is designed to provide fundamental physiological principles and their application to coaching competitive athletics.

234. Rehabilitation of Athletic Injuries
(Formerly offered as ESLE 234). First semester. Three credits. Prerequisite: Open only to Athletic Training majors. Graham
The multi-dimensional approaches to rehabilitation of athletic injuries. The restoration of strength, range-of-motion, neuromuscular control, balance, cardiovascular endurance, and other components will be covered as it applies to specific athletic injuries.

236. Sport and Society
(Formerly offered as ESLE 236). First semester. Three credits. Prerequisite: SOCI 107 or 107W, or SOCI 115 or 115W and open only to students in Kinesiology programs. Yunnakis
Sport as an institution. Sociological issues involving gender, race, and intercollegiate, professional, and children’s sports.

236W. Sport and Society
Prerequisite: SOCI 107 or 107W, or SOCI 115 or 115W and open only to students in Kinesiology programs; ENGL 105 or 110 or 111 or 250.

239. Therapeutic Modalities for Athletic Injuries
Second semester. Three credits. Prerequisite: Open only to Athletic Training majors who are sophomores or higher. Graham
Techniques and rationale pertaining to treatment and prevention of athletic injuries through the modalities of heat, cold, electricity, massage, ultrasound, and others. Also, the pharmacology of therapeutic medications.

248. Physiological Systems in Human Performance
(Formerly offered as ESLE 248). First semester. Three credits. Prerequisite: PNB 264-265 and open only to students in Kinesiology programs. Armstrong, Maresh, Van Heest, Volek
An organ systems approach to optimal human performance including metabolism, energy transfer, nerve transmission, muscle contraction, endocrine control, and cardiopulmonary physiology.
248. Pathophysiology and Pharmacology for Athletic Trainers
Second semester. Three credits. Prerequisite: Open only to Athletic Training majors.

The focus of this class is the pathophysiology and pharmacology as it relates to athletic injuries. Specifically, the injury and repair process of skin, muscle, bone, ligaments, tendons, and cartilage. The pharmacology of therapeutic medications and performance enhancing substances will be covered.

250. Taping and Bracing Laboratory/Clinical Rotation I
Second semester. Three credits. Prerequisite: Open only to Athletic Training majors who are sophomores or higher. Walker

Hands on instruction/demonstration/practice/ implementing of basic emergency procedures, training room procedures, and taping/bracing/wound care procedures. Also, the first of five field experience clinical rotations.

251. Rehabilitation and Modalities Laboratory/ Clinical Rotation II
First semester. Three credits. Prerequisite: Open only to Athletic Training majors. Walker

Hands on instruction/demonstration/practice/ implementing of basic rehabilitation, modalities and conditioning procedures. Also, the second of five field experience clinical rotations.

252. Assessment Laboratory/Clinical Rotation III
Either semester. Three credits. Prerequisite: Open only to Athletic Training majors. Mazerolle, Walker

Hands on instruction/demonstration/practice/ implementing of basic evaluation and treatment procedures of specific body regions. Also, the third of five field experience clinical rotations.

253W. Current Research and Issues in Athletic Training
First semester. Three credits. Prerequisite: Open only to Athletic Training majors; ENGL 105 or 110 or 111 or 250. Casa

Acquaint students with the recent research in the field, the components of conducting and publishing research in the field, and preparation for research endeavors at the graduate level. Additionally, important issues relevant to the athletic training profession will be explored and discussed.

254. Athletic Training Administration
Second semester. Three credits. Prerequisite: Open only to Athletic Training majors. Graham

Administrative/Management concerns for the athletic trainer. Insurance, budgeting, counseling, facility design, hiring, record keeping, and other issues will be covered.

255. Health and Medicine
First semester. Three credits. Prerequisite: Open only to Athletic Training majors. Graham

Knowledge, skills, and values that a health professional must possess to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity.

257. Strength and Conditioning for Athletic Trainers
(Formerly offered as ESLE 257.) Second semester, odd years. Three credits. Prerequisite: Open only to Athletic Training majors.

The focus of this class is the prevention of athletic injuries via the proper implementation of strength and conditioning principles. To include frequency, intensity, recovery, periodization, components of a fitness program, ergogenic aids, and protective bracing.

258. Mechanisms and Adaptations in Sport and Exercise
(Formerly offered as ESLE 258.) Second semester. Four credits. Prerequisite: PNB 264-265 and open only to students in Kinesiology programs. Armstrong, Maresch, Van Heest, Volek

An applied approach to the physiological mechanisms and adaptations influencing sport and exercise: optimal nutrition, body composition, exercise training, ergogenic aids, aging, cardiovascular health, and environmental factors.

259W. Fitness Management
(Formerly offered as ESLE 259W.) Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs; ENGL 105 or 110 or 111 or 250. Van Heest

Health fitness programming; a management perspective.

260. Assessment of Athletic Injuries
(Formerly offered as ESLE 260.) Second semester. Three credits. Prerequisite: Open only to Athletic Training majors who are sophomores or higher. Casa

Techniques and procedures that athletic trainers use to evaluate injuries to the extremities. Includes history, observation, palpation, special tests, manual muscle testing, blood flow, nerve function, and other injury specific skills.

262. Directed Observation and Participation
(Formerly offered as ESLE 262.) Credits by arrangement. Prerequisite: Open only to students in Kinesiology programs. May be taken more than one semester, but total credits cannot exceed three. Prior to registration, students must apply for Directed Observation and provide for their own transportation.

Mentors include educators, recreationists, sport professionals.

263. Applied Anatomy and Kinesiology
(Formerly offered as ESLE 263.) Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Van Heest

Human anatomy and its application to physical activity, exercise and sport.

264. Prevention and Care of Athletic Injuries
Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Mazerolle

An introductory class to explore general considerations of preventing, recognizing, and treating athletic injuries.

265. Fundamentals of Resistance Training
Either semester. Four credits. Prerequisite: Open only to students in Kinesiology programs. Kraemer

Coaching professionals must have the knowledge, skills, and understanding of the scientific principles on which to design individualized resistance training programs needed for optimal performance and injury prevention.

268. Physiological Assessment of Competitive Athletes
Second semester. Three credits. Prerequisite: EKIN 248 and 258. Open only to students in Kinesiology programs. Van Heest

The course focuses on the development of analysis techniques of human physiology specific to competitive athletes. The course will include both laboratory and field methods to evaluate aerobic ability, anaerobic ability, flexibility, muscular strength and power and body composition. It requires a strong foundation in musculoskeletal anatomy and physiology. The course is designed to better prepare the student for development of scientifically sound coaching practices.

269. Administration Laboratory/Clinical Rotation IV
First semester. Three credits. Prerequisite: Open only to Athletic Training majors.

Hands on instruction/demonstration/practice/ implementing of basic administrative and management issues. Also, the fourth of five field experience clinical rotations.

270. Sports Medicine Experiences
Both semesters. One credit. Repeatable for 4 credits. Prerequisite: Open only to Athletic Training majors. Graham

Experiences in a variety of sports medicine settings that will serve to broaden an athletic-training student’s awareness of medical coverage of athletic events and other medical personnel involved in athletic health care.

271. Sport Law
First semester. Three credits. Shivers

An introductory course in the law as it pertains to sport and recreational experiences. Students are exposed to fundamental concepts and their application to sport and related activities.

272. Sport Biomechanics
(Formerly offered as ESLE 272.) First semester. Three credits. Prerequisite: PHYS 101Q or 121Q, PNB 264-265 and open only to students in Kinesiology programs.

Qualitative analysis of linear and angular motion, force and torque, momentum, energy, equilibrium, projectiles, aerodynamics.

274. Resistance Training Exercise Techniques and Evaluation
Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs; others by consent of instructor. Kraemer

Strength and conditioning professionals must have the knowledge of proper resistance exercise techniques, safety spotting techniques, equipment care and maintenance, different types of resistance training equipment, and the evaluation of physical performance capacity. The student will be able to design teaching techniques, testing protocols, and evaluation methods vital to a strength and conditioning program.

276. Counseling in Sports Medicine
Second semester, even years. Three credits. Prerequisite: Open only to Athletic Training majors.

Counseling concerns for the athletic trainer. Theory, practical skills, assessment, referral and specific counseling issues in athletic health care.

280. Recreational Services for the Mentally III
(Formerly offered as ESLE 280.) First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. Shivers

Planning, implementation, programming, evaluation, and treatment team functions for clients, using systematic practice.

281. Introduction to Sport Marketing
(Formerly offered as ESLE 281.) Second semester. Three credits. Prerequisite: ECON 111, 112 and open only to students in Kinesiology programs.

This course introduces the basic concepts, principles, and tools for sport marketing.

282. The Sociology of Leisure
(Formerly offered as ESLE 282.) Second semester. Three credits. Prerequisite: SOCI 107 or 107W or SOCI 115 or 113W and open only to students in Kinesiology programs. Yiannakis

An examination of the functions of leisure (& tourism) for society and the individual, with special emphasis on life satisfaction, self actualization over
283. The Organization of Recreational Services
(Formally offered as ESLE 283.) Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. 

Programming activities in public and private agencies emphasizing personnel needs, facilities, marketing, and organization.

284. Introduction to Recreational Service Administration
(Formally offered as ESLE 284.) First semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. 

Management practices, legal issues, budgeting, and supervision.

285. Therapeutic Recreational Service for the Physically Disabled and the Neurologically Impaired
(Formally offered as ESLE 285.) Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. 

Adaptive programming for clients with permanent disabilities.

286. Issues in Sport
(Formally offered as ESLE 286.) Either semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. 

The study of socio-cultural, economic, political, and other related issues in sport.

289. Leadership in Recreational Services
(Formally offered as ESLE 289.) Second semester. Three credits. Prerequisite: Open only to students in Kinesiology programs. 

Group dynamics and interpersonal behavior theories with leadership techniques for field application.

289W. Leadership in Recreational Services
Prerequisite: Open only to students in Kinesiology programs; ENGL 105 or 110 or 111 or 250. 

290. Internship
(Formally offered as ESLE 290.) Either semester or summer. Variable credits. Prerequisite: In accordance with departmental policy, students will have completed all academic course work in their concentration excluding Athletic Training prior to undertaking the internship. May be repeated for credit. Open only to students in Kinesiology programs.

Field service or experiences in cooperating agencies.

292. Emergency Procedures in Athletic Training
(Formally offered as ESLE 292.) First semester. Three credits. Prerequisite: Open only to Athletic Training majors. 

Evaluation and treatment skills for athletic injuries to the head, face, neck, trunk, spine, thorax, and abdomen. Acute first-aid considerations in life-threatening situations will also be covered in-depth.

295. Introduction to Honors Research
Both semesters. Three credits. Prerequisite: Open only to Honors Students in Kinesiology programs. 

The student will meet with EKIN faculty members and attend laboratory/program staff meetings to survey the opportunities available for future Honors Thesis research.

296. Honors Literature Review
Both semesters. Three credits. Prerequisite: Open only to Honors Students in Kinesiology programs. 

The student will identify specific Honors Thesis research questions and will write a library research paper that will serve as the thesis Literature Review.

297W. Honors Thesis
Both semesters. Three credits. Prerequisite: Open only to Honors Students in Kinesiology programs; ENGL 105 or 110 or 111 or 250. 

The student will collect and interpret data and will write the Honors Thesis, completing work begun during EKIN 296.

298. Variable Topics
(Formerly offered as ESLE 298.) Either semester. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit with a change in content.

299. Independent Study for Undergraduates
(Formerly offered as ESLE 299.) Either semester. Credits and hours by arrangement. Open only to seniors with consent of the Department Head. May be repeated for credit with a change in content.

Laboratory or library research to expand understanding of a specialized topic in sport, leisure, or exercise sciences.

Educational Leadership (EDLR)

Head of Department: Professor Timothy G. Reagan 
Department Office: Room 406, Gentry Building

For major requirements, see the Neag School of Education section of this Catalog.

250. Experiential Learning and Education
First semester. Three credits. 

Experiential learning, individual values, personality characteristics. Learning as a life-long process, adult transition research.

251. Introduction to Organizations and Human Resources Education
Either semester. Three credits. 

Theories and principles of organizations and organizational behavior as they relate to human resources development in education.

252. Introduction to Management and Human Resources Education
Either semester. Three credits. 

Issues and tasks of human resources management (HRM) in educational settings. Theory and practice.

253. Introduction to Planning and Evaluation and Human Resources Education
Either semester. Three credits. 

Planning and evaluating human resources management subsystems in educational settings, staffing, organizational development, compensation and benefits, labor relations, communication, training and development, supervision and information systems.

254. Introduction to Budget Planning and Human Resources Education
Either semester. Three credits. 

Comprehension of budgeting, profit planning and control applied to human resources development. Fiscal management problems, budget planning in educational programs.

255. Contemporary Labor Issues
Either semester. Three credits. May be repeated for credit, not to exceed 6 credits. 

Labor issues in work organization, employees, and the labor market. Patterns of jobs and career problems of labor organizations. Role of multi-national corporations in changing the job mix, collective bargaining.

282. College Freshmen: Their Characteristics and Their Adjustment to College Life
Second semester. Three credits. Prerequisite: Consent of instructor.

Educational Psychology (EPSY)

Head of Department: Professor Sally Reis 
Department Office: Room 210, Gentry Building

For major requirements, see the Neag School of Education section of this Catalog.

206. Introduction to Exceptionality
Either semester. Three credits. Prerequisite: PSYC 132, Roberts

This course considers the nature of exceptionalities as well as current policy and programs in the schools and community.

207. Exceptionality I
Second semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Karan 

Characteristics of students with exceptionalities.

208. Exceptionality II
First semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program.

Educational programming for learners with special needs.

210. Collaborative Program Planning in Special Education
First semester. Three credits. Prerequisite: Open only to Special Education and Elementary Education majors. Karan, Norlander-Case 

Covers basic knowledge and skills related to collaboration with families, paraprofessionals, other teachers, and professionals from other disciplines, including specialized services for children with disabilities (EQ Health, Assistive Technology, Related Services). Introduction to library and computer resources for school leaders.

212. Diagnosis, Assessment, and Program Planning
First semester. Three credits. Prerequisite: Open only to Special Education and Elementary Education majors. Madaus, McGuire, Norlander-Case
Diagnosis of students with special needs, use of test data in planning instruction and report writing.

213. Positive Behavior Supports and Interventions for Students with Disabilities
Second semester. Three credits. Prerequisite: Open only to Special Education majors. Martinez.
Overview of preferred practices for providing positive behavior supports for students with disabilities across a variety of classroom and other educational environments.

214. Methods for Teaching Students with Disabilities
First semester. Three credits. Prerequisite: EPSY 212 and 213; senior enrolled in Special Education Teacher Preparation Program. This course will inform students of research-based methods and instructional formats for teaching students with disabilities.

215. Advanced Foundations of Disability
First semester. Three credits. Prerequisite: EPSY 212 and 213; senior enrolled in Special Education Teacher Preparation Program. Coyne. This course will provide students with knowledge and understanding of the unique and common cognitive, academic, physical, cultural, social, and emotional needs and characteristics of individuals with various disabilities.

221. Educational Psychology
Either semester. Three credits. Prerequisite: PSYC 132, Brown, Kulikowich, Young. The psychology of learning and teaching, and the study of the nature and development of children and adolescents.

226. Field Study in Education
Semester by arrangement. Credits and hours by arrangement. Open only with consent of instructor. Active study through visitation and participation in educational and/or rehabilitation environments. Participation in appropriate lectures and seminars is required. Students must be prepared to provide own transportation.

230. Peer Counseling
Either semester. Three credits. Prerequisite: Consent of instructor. This course will focus on the development of those communication skills which are necessary for effective peer and paraprofessional counseling. Several theories of interpersonal communication, experiential learning and self-psychology will also be covered.

240. Technology in Education
Both semesters. One credit. Open to first year students in the teacher preparation program. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Punnambeekar, Young. The use of educational technology in the education profession. Emphasis is placed on computer technology, software evaluation and instructional devices.

250. Learning I
First semester. One credit. Prerequisite: PSYC 132 and open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Brown, Reis, Young. Theory and practices of learning.

251. Learning II
First semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Brown, Reis, Young. Theory and practices of learning.

252. Assessment of Learning I
First semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Archambault, Kulikowich, O’Connell. Theory and practices of the assessment of learning.

253. Assessment of Learning II
First semester. One credit. Prerequisite: Open only to students in the Integrated Bachelor’s/Master’s Teacher Preparation Program. Archambault, Kulikowich, O’Connell. Theory and practices of the assessment of learning.

262. Directed Observation and Participation
Credits by arrangement, not to exceed three. Open only with consent of instructor. Prior to registration, students must apply for Directed Observation. This course may be taken more than one semester. Mcguire. This course gives prospective professionals the opportunity to observe Special Education Teachers and/or Rehabilitation Specialists working with the handicapped. Students must be prepared to provide own transportation.

277. Directed Student Teaching: Special Education
Either semester. Credits and hours by arrangement. Prerequisite: Open only to Elementary Education and Special Education majors. Application must be made to the Coordinator of Student Teaching for the fall semester prior to March 1; for the spring semester prior to October 1. Abdulaziz, Norlander. Practicum experience with mentally retarded, learning disabled and/or emotionally disturbed students.

288. Variable Topics
Either semester. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.

289. Independent Study for Undergraduates
Either semester. Credits and hours by arrangement. Prerequisite: Open only to juniors and seniors with appropriate background for the study of education. Students must present the instructor with a problem well laid out for investigation. May be repeated for credit with a change in content.

 Designed primarily for qualified students who wish to extend their knowledge in some specialized area.

**Electrical and Computer Engineering (ECE)**

*Head of Department: Professor Robert Magnuson*

*Department Office: Room 450, Information Technology Engineering Building*

For major requirements, see the School of Engineering section of this Catalog.

201. Fundamentals of Circuit Analysis
(Formerly offered as EE 201.) Either semester. Three credits. Three class periods and one discussion period. Prerequisite: MATH 211 and PHYS 152, both of which may be taken concurrently. Open to sophomores or higher. This course and either ECE 202 or ECE 209 may not both be taken.

Analysis of electrical networks incorporating passive and active elements. Basic laws and techniques of analysis. Transient and forced response of linear circuits. Component state power and three-phase circuits. Periodic excitation and frequency of response. Computer analysis tools. Design projects are implemented and tested in the laboratory. Laboratory reports with revisions are required for each project.

202. Signals and Systems
(Formerly offered as EE 202.) Either semester. Three credits. Three class periods and one discussion period. Prerequisite: ECE 201 or ECE 220. Representation of signals in the time and frequency domains. Fourier series. Fourier and Laplace transform methods for analysis of linear systems. Introduction to state space models. Introduction to sampling and discrete systems analysis via z transforms.

203. Electronic Devices and Circuits
(Formerly offered as EE 203.) Either semester. Three credits. Prerequisite: ECE 201. This course and ECE 239 may not both be taken.

Physical electronics underlying the operation of modern solid-state devices. Diodes and diode circuits. The bipolar junction transistor and field-effect transistors. Models of transistors. Applications of transistors to integrated circuits such as operational amplifiers and logic gates.

205. Electromagnetic Fields and Waves
(Formerly offered as EE 205.) Either semester. Three credits. Prerequisite: PHYS 152 and MATH 210 and 211. Open only to students who have received credit for ECE 206.

Application of electric and magnetic field theory to engineering problems involving conductors, dielectrics, semiconductors, magnetic materials, the motion of charged particles, and wave propagation. Relationship between fields and circuit parameters in the context of transmission lines and radiation.

209W. Electrical Circuit Design Laboratory
(Formerly offered as EE 209W.) Either semester. Two credits. One 2-hour laboratory period and one 1-hour discussion period. Prerequisite: ECE 201, may be taken concurrently. ENGL 105 or 110 or 111 or 250. Open to sophomores or higher.

Design and evaluation of analog circuits. Emphasizes out-of-laboratory preparation and troubleshooting. Introduction to laboratory instruments including oscilloscopes, signal sources and meters.

210W. Electrical Circuits
Either semester. Four credits. Three 1-hour lectures and one 2-hour laboratory. Prerequisite: PHYS 152Q and MATH 211Q, both of which may be taken concurrently. Open to sophomores or higher. This course and either ECE 201 or ECE 209W may not both be taken for credit.

Analysis of electrical networks incorporating passive and active elements. Basic laws and techniques of analysis. Transient and forced response of linear circuits. AC steady state power and three-phase circuits. Periodic excitation and frequency of response. Computer analysis tools. Design projects are implemented and tested in the laboratory. Laboratory reports with revisions are required for each project.

212. Electronic Circuit Design and Analysis
Either semester. Four credits. Prerequisite: ECE 201 and ECE 209W; or ECE 210. Three 1-hour lectures and one 2-hour laboratory. This course and either ECE 204 or 261 may not both be taken for credit.

Physical electronics underlying the operation of electronic devices. Diodes, diode models, and diode circuits. Transistors, transistor models, and transistor circuits. DC, small signal, and frequency analysis of transistor amplifiers. Compound transistor configurations. Computer analysis tools. Design projects are implemented and tested in the laboratory. Laboratory reports with revisions are required for each project.

213. Digital Integrated Circuit Design and Analysis
Either semester. Four credits. Prerequisite: ECE 204 and ECE 261; or ECE 212. Three 1-hour lectures and one 2-hour laboratory. This course and ECE 215 may not both be taken for credit.

214. Power Electronics
Either semester. Two credits. Prerequisite: ECE 204 and ECE 261; or ECE 212. One 1-hour lecture and one 2-hour laboratory. This course and ECE 262W may not both be taken for credit.

- Transformers and electrical motors. Switching electronic devices and power supplies. Motor control circuits. Computer analysis tools. Design projects are implemented and tested in the laboratory. Laboratory reports with revisions are required for each project.

215. Digital Integrated Circuits
(Formerly offered as EE 215.) Semester by arrangement. Three credits. Prerequisite: ECE 204 and CSE 207. This course and ECE 213 may not both be taken for credit.

- Switching, timing, wave shaping, and logic circuits to generate waveforms and functions used in pulse systems, instrumentation and computers. Emphasis is on integrated circuits.

220. Electrical and Computer Engineering Principles
(Formerly offered as EE 220.) First semester. Three credits. Prerequisite: MATH 211Q and PHYS 152Q, both of which may be taken concurrently. This course and ECE 201 or ECE 210W may not both be taken.

- Basic concepts of circuit analysis as applied to electrical circuits and electromechanical devices, including measuring instruments.

222. Fiber Optics Laboratory
(Formerly offered as EE 222.) Second semester. Three credits. One four-hour laboratory period. Prerequisite: ECE 228.

- Hands-on design and measurement of fiber-optic applications. Fiber-optic communications and fiber-optic sensors. Structured experiments and design projects centered around available equipment.

230. Electrical Instrumentation
(Formerly offered as EE 230.) First semester. Three credits. Prerequisite: ECE 202, ECE 204 and CSE 207.


232. Systems Analysis
(Formerly offered as EE 232.) Either semester. Three credits. Prerequisite: ECE 202.


234. Digital Control Systems
(Formerly offered as EE 234.) Second semester. Three credits. Prerequisite: ECE 232.


240. Electronic Circuits and Applications
(Formerly offered as EE 240.) Second semester. Three credits. Prerequisite: ECE 204 and 232.

- Analysis and design of linear amplifiers. The effects of feedback in tuned, video, and operational amplifiers. Noise, stability, and frequency compensation. Applications encompass active filters, oscillators, phase lock loops and nonlinear operations such as multiplication, modulation, sampling, and analog-to-digital conversion.

241. Communication Systems
(Formerly offered as EE 241.) First semester. Three credits. Prerequisite: ECE 202, and STAT 224Q.


242. Digital Communications and Networks
(Formerly offered as EE 242.) Second semester. Three credits. Prerequisite: ECE 204 and STAT 224Q.


245. Micro/Opto-electronic Devices
(Formerly offered as EE 245.) Second semester. Three credits. Prerequisite: ECE 204.

- Principles and applications of contemporary solid state devices such as light-emitting diodes, injection lasers, solar cells, p-n-p-n diodes, SCR and triacs, IMPATT diodes, Schottky devices, bipolar and MOS transistors, MFSFETs and MODFETs, and fundamentals of integrated circuits.

246. Introduction to Dielectric and Magnetic Materials
(Formerly offered as EE 246.) Semester by arrangement. Three credits. Prerequisite: ECE 205 or ECE 206.


247. Introduction to Digital Signal Processing
(Formerly offered as EE 247.) Second semester. Three credits. Prerequisite: ECE 202.

- Discrete-time signals and systems. The z-transform. Digital filters; stability, frequency response, canonical realizations and state equations. Fourier methods for discrete signal representation; Fourier transform of sequences, the discrete Fourier transform, and the FFT. Design of linear digital filters in time and frequency domains. Spectrum analysis and filtering via the FFT.

249. Very Large Scale Integrated Circuit (VLSI) Design and Simulation
(Formerly offered as EE 249.) First semester. Four credits. Two-hour lecture and three-hour laboratory period. Prerequisite: ECE 215. Not open to students who have passed EE 248 or EE 269.

- Design of MOS transistors, including short channel effects in sub-micron devices; scaling laws; design rules. Layout of NMOS and CMOS logic gates; power-delay calculations. Design of static and/or dynamic memories. Laboratory emphasizes schematic capture, simulation, timing analysis and testing; layout of custom IC’s; use of VHDL.

252. Digital Systems Design
(Also offered as CSE 252.) (Formerly offered as EE 252.) Either semester. Three credits. Prerequisite: CSE 212C and MATH 210Q and MATH 211Q.

- Design and evaluation of control and data structures for digital systems. Hardware design languages are used to describe and design alternative register transfer level architectures and control units with a micro-programming emphasis. Consideration of computer architecture, memories, digital interfacing timing and synchronization, and microprocessor systems.

257. Numerical Methods in Scientific Computation
(Also offered as CSE 257.) (Formerly offered as EE 257.) Either semester. Three credits. Prerequisite: CSE 123C and MATH 210Q and MATH 211Q.

- Introduction to the numerical algorithms fundamental to scientific computation. Equation solving, function approximation, integration, difference and differential equations, special computer techniques. Emphasis is placed on efficient use of computers to optimize speed and accuracy in numerical computations. Extensive digital computer usage for algorithm verification.

261. Analog Electronics Design Laboratory
(Formerly offered as EE 261.) Either semester. Three credits. One class period and one 4-hour laboratory period. Prerequisite: ECE 209W or 210W, 202, and 204; ECE 202 and 204 may be taken concurrently. This course and ECE 212 may not both be taken for credit.

- Introductory design laboratory. Use of personal computers to design and measure performance of analog electronic circuits and systems. Design with both integrated circuits and discrete components. Design of active filters, effects of feedback, broadbanding, oscillator design, A/D and D/A conversion systems, and low-noise amplifier design.

262W. Switching and Digital Electronics Design Laboratory
(Formerly offered as EE 262W.) Either semester. Three credits. One 4-hour laboratory period. Prerequisite: ECE 261 or ECE 212; ENGL 105 or 110 or 111 or 250. This course and ECE 214 may not both be taken for credit.


263. Communications Systems Design Laboratory
(Formerly offered as EE 263.) Either semester. Three credits. One 4-hour laboratory. Prerequisites: ECE 205 or ECE 207, and 262W.

- Design and experimental evaluation of circuits and systems useful in communication, control, and other applications. Typical subject areas are: transmission lines, microwaves, antennas, AM/FM transmitters and receivers, TV cameras and receivers, communication between computers, laser communication, fiber-optics, pulse-code modulation, acoustics, hearing, rotating machines, servomechanisms, and microprocessors.

265. Independent Design Laboratory
(Formerly offered as EE 265.) Either or both semesters. Three credits. Prerequisite: ECE 262 and consent of instructor. May be taken twice for credit.

- Experimental design project undertaken by the student by special arrangement with a faculty member of the Department of Electrical and Computer Engineering.
266. Microprocessor Applications Laboratory
(Formerly offered as EE 266.) First semester. Three credits. One class period and one 4-hour laboratory. Design of software and interface hardware to use a microcomputer as an on-line, real-time element in data acquisition, filtering and control systems. Use of clocks, DAC's, ADC's, speech synthesis modules, and movement generators. Design project. Written and oral presentations of laboratory results.

267. Systems Laboratory
(Formerly offered as EE 267.) Second semester. Three credits. One 4-hour laboratory period. Prerequisite: ECE 232 and ECE 262.

Real-time digital control and signal processing systems. Typical topics include liquid level control, velocity and position control, digital filters, image processing, and power control electronics. Written and oral presentations of laboratory results.

268. Micro/Opto-electronic Devices and Circuits Fabrication Laboratory
(Formerly offered as EE 268.) Second semester. Three credits. One class period, and one 4-hour laboratory period. Prerequisite: ECE 245, ECE 215.

Semiconductor wafer preparation and characterization including: determination of carrier concentration, mobility, and lifetime; oxidation, diffusion, metallization, mask layouts, and photolithographic techniques as employed in the realization of discrete devices (e.g., bipolar and MOS transistors, solar cells) and integrated circuits; design of basic IC components such as transistors, resistors, and capacitors; monolithic fabrication of simple digital/analog circuits. Design project. Written and oral presentations of laboratory results.

272. Introduction to Biomedical Engineering
(Also offered as BME 210.) (Formerly offered as EE 272.) First semester. Three credits. Prerequisite: BIOL 107. Corequisite: PHYS 151Q and MATH 210Q. Open to sophomores or higher.


280. Digital Design Laboratory
(Also offered as CSE 280.) (Formerly offered as EE 280.) Second semester. Three credits. Four hours of laboratory. Prerequisite or corequisite: CSE/ECE 252.

Digital design with PLAs and FPGAs, A/D and D/A conversion, floating point processing, ALU design, synchronous and asynchronous controllers, control path; bus master; bus slave; memory interface; I/O interface; logic circuits analysis, testing, and trouble shooting; PBC; design and manufacturing.

281. Digital Hardware Laboratory
(Also offered as CSE 281.) (Formerly offered as EE 281.) Second semester. Three credits. One 4-hour laboratory period. Prerequisite: ECE 252 or CSE 252.

Advanced combinational and sequential circuit design and implementation using random logic and microprocessor based system. Hardware and software interface to the basic system. Serial communication, user program loading and execution. Microcontrollers – familiarization and inclusion in design.

290. Electrical and Computer Engineering Design
(Also offered as CSE 290.) (Formerly offered as EE 290 and EE 297.) Either semester. Two credits. Prerequisite: Senior standing.

Discussion of the design process; project statement, specifications, project planning, scheduling and division of responsibility, ethics in engineering design, safety, environmental considerations, economic constraints, liability, manufacturing, and marketing. Projects are carried out using a team-based approach. Selection and analysis of a design project to be undertaken in CSE/ECE 291 is carried out. Written progress reports, a proposal, an interim project report, a final report, and oral presentations are required.

291. Electrical and Computer Engineering Design II
(Also offered as CSE 291.) (Formerly offered as EE 291 and EE 270.) Either semester. Three credits. Prerequisite: ECE 290. Hours to be arranged.

Design of a device, circuit, system, process, or algorithm. Team solution to an engineering design problem as formulated in CSE/ECE 290, from first concepts through evaluation and documentation. Written progress reports, a final report, and oral presentations are required.

292. Information Processing Systems Laboratory
Second semester. Three credits. Prerequisite: ECE 202. Laboratory experiments in signal processing, real-time digital filters, image processing, imaging systems, data acquisition using detectors, pattern recognition, communication receivers, and system performance evaluation. Emphasis is on real-time information processing systems with interface between sensors and computerprocessors. Applications of analog and digital techniques to design, implementation and testing of real-time information processing systems.

295. Special Topics in Electrical and Computer Engineering
(Formerly offered as EE 295.) Semester by arrangement. Credits by arrangement. Prerequisite: Consent of instructor. With a change in content, this course may be repeated for credit.

Classroom and/or laboratory course in special topics as announced in advance for each semester.

299. Independent Study in Electrical and Computer Engineering
(Formerly offered as EE 299.) Semester by arrangement. Credits by arrangement. Prerequisite: Consent of instructor. With a change in content, this course may be repeated for credit.

Individual exploration of special topics as arranged by the student with course instructor.

Engineering (ENGR)

Dean: Amir Faghri
Assistant Dean for Undergraduate Education: M.E. Wood
Office: Room 304, EII Castleman Building
Director of Undergraduate Advising: David Jordan
Office: Room 326, EII Castleman Building

100. Orientation to Engineering
First semester. One credit. Fifteen class periods of lecture, and eight seminar and discussion periods. Not open to Junior or Senior students in the School of Engineering. Not open for credit for students who have passed ENGR 150 or 151.

105. History of Materials and Technology
First semester. Three credits. Open to sophomores or higher. May not be used as a professional requirement in the School of Engineering. "Kattanis" (Formerly offered as EE 105.) Semester by arrangement. No credit. Prerequisite: consent of instructor. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

125. Introduction to Engineering I
Either semester. Three credits. Two lecture periods and one 2-hour discussion period. Not open to Junior or Senior students in the School of Engineering. Not open for credit for students who have passed ENGR 100 or 166.

Introduction to engineering and the engineering profession. Topics include: problem solving, design projects, group work, oral and written reports, Fortran computer programming, and engineering graphics.

151. Introduction to Engineering II
Either semester. Three credits. Two lecture periods and one 2-hour discussion period. Prerequisite: ENGR 150C or CSE 110C, and MATH 1100 or 113Q or 115Q, which may be taken concurrently. Not open to Junior or Senior students in the School of Engineering. Not open for credit for students who have passed ENGR 100 or 166.

Introduction to engineering and the engineering profession through application of physical conservation principles in analysis and design. Topics include: problem solving, conservation laws, materials properties and selection, engineering economics, group design projects, and oral and written reports.

166. Foundations of Engineering
Second semester. Three credits. Not open for credit to Junior or Senior students in the School of Engineering. Not open for credit for students who have passed ENGR 150 or 151.

Introduction to topics in a specific engineering major. Topics selected by Department or Program, or Regional Campus faculty. Students to select section based on their selected or intended major. In the context of the discipline, students would develop skills transferable to other engineering disciplines.

200. History of Materials and Technology
First semester. Three credits. Open to sophomores or higher. May not be used as a professional requirement in the School of Engineering. "Kattanis" Evolution of man's knowledge of materials and technology from prehistoric cultures until the Industrial Revolution. Interaction between materials, art, science and technology. Goals, status and methods of the materials technologist in Sumerian, Babylonian, Egyptian, Greek, Roman, Extreme Oriental, Islamic civilizations and through the Middle Ages and the Renaissance in modern civilizations set in the political, social, and economic frames of the times.

201. History of Engineering
Second semester. Three credits. Open to sophomores or higher. May not be used as a professional requirement in the School of Engineering. "Kattanis" History of civil, electrical, mining, metallurgical, chemical, mechanical, naval, aeronautical and textile engineering from the Industrial Revolution to the dawn of the twentieth century. Interaction between technology, and industrial, economic, political and cultural forces.

289. EUROTECH Internship Abroad
Semester by arrangement. No credit. Prerequisite: consent of instructor. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

A six-month internship in Germany, Austria, or Switzerland for the EUROTECH Program. The student must arrange with the instructor for this internship at least one year before the intended departure date and participate in the orientation program. To successfully complete this course the student must submit periodic reports in German on the assigned work during the work period and a final report upon return.
295. Special Topics in Engineering
Either semester. Credits and hours by arrangement, or as announced. Prerequisite and/or consent: Announced separately for each course. With a change in content, this course may be repeated for credit.

Classroom and/or laboratory course in special topics as announced in advance for each semester.

English (ENGL)

Head of Department: Professor John Abbott
Department Office: Room 208, College of Liberal Arts and Sciences Building

For major requirements, see the College of Liberal Arts and Sciences section of this Catalog.

103. English for Foreign Students
Either semester. Three credits. Course may be repeated for credit. Graduate students may elect this course.

Instruction in English for non-native speakers of the language.

104. Basic Writing
Either semester. Four credits.

Development of the reading and writing skills essential to university work. Students placed in ENGL 104 must pass the course before electing ENGL 105, 110, or 111. Not open to students who have passed ENGL 105, 109, 110, or 111.

105. English Composition
Either semester. Three credits. Not open for credit to students who have passed ENGL 110.

Instruction in composition through critical reading and frequent short essays.

109. Literature and Composition
Either semester. Three credits. Prerequisite: ENGL 105. Not open for credit to students who have passed ENGL 111 or 250.

Continued training in writing expository prose through the study of selections from prose, poetry, and drama.

110. Seminar in Academic Writing
Either semester. Four credits.

Not open for credit to students who have passed ENGL 105. Students placed in ENGL 104 must pass that class before enrolling in ENGL 110.

Instruction in academic writing through interdisciplinary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics and style.

111. Seminar in Writing through Literature
Either semester. Four credits. Not open for credit to students who have passed ENGL 109. Students placed in ENGL 104 must pass that class before enrolling in ENGL 111.

Instruction in academic writing through literary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics and style.

112. Classical and Medieval Western Literature
First semester. Three credits. Prerequisite: ENGL 105 or 110 or 111.

This and ENGL 113 offer a study of European literature from ancient times to the present. ENGL 112 considers ancient and medieval literature through Dante.

112W. Classical and Medieval Western Literature
Prerequisite: ENGL 110 or 111 or both 105 and 109; the latter may be taken concurrently.

113. Renaissance and Modern Western Literature
Second semester. Three credits. Prerequisite: ENGL 105 or 110 or 111.

Literature in the European tradition from the Renaissance through the modern periods.

113W. Renaissance and Modern Western Literature
Prerequisite: ENGL 110 or 111 or both 105 and 109; the latter may be taken concurrently.

120. Major Works of Eastern Literature
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111.

Important works of poetry, drama, and literary prose from the Middle East, South Asia, China, Japan, and Southeast Asia. All works are read in translation.

127. Major Works of English and American Literature
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111.

Includes important works from the major genres and historical periods since Beowulf.

127W. Major Works of English and American Literature
Prerequisite: ENGL 110 or 111 or both 105 and 109; the latter may be taken concurrently.

146. Creative Writing I
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111.

First course in creative expression in fiction, poetry, and other forms.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head or advisor may be required prior to the student’s departure.

Special topics taken in a foreign study program.

200. Children’s Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

The best literature available to children, including works by major writers and forms such as fable, folk tale, fairy tale, nursery rhyme, and short story.

201. Literature for High School Students
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Designed primarily for English education majors. May not be used to meet the English major requirement.

An introduction to the guidance of high school reading in literature.

204. Milton
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

The lyric, epic and dramatic poetry of Milton, with some consideration of his prose writing.

205. British Literature I
Either semester. Three credits. Open to sophomores or higher. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

British literature, medieval through 18th century. Intended to provide preparation for more advanced courses in British literature. This course is strongly recommended for English majors.

206. British Literature II
Either semester. Three credits. Open to sophomores or higher. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

British literature, 19th to 20th centuries. Intended to provide preparation for more advanced courses in British literature. This course is strongly recommended for English majors.

209W. Advanced Composition for Prospective Teachers
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher. Designed primarily for English education majors. May not be used to meet the English major requirement.

Advanced training in composition, with consideration of the problem of teaching writing.

210. Poetry
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

A study of the techniques and conventions of the chief forms and traditions of poetry in English.

211. Modern Poetry in English
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

Poetry of the 20th century, from the major modernist innovators to significant contemporaries.

212. The Modern Novel
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

Major twentieth-century novels.

216. The Short Story
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

The short story as a literary form with study of significant Continental, British, and American writers.

217. Studies in Literature and Culture
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. May be repeated for credit with a change in topic. Open to sophomores or higher.

An examination of social and culture aspects of printed literature and of its relationship to other media. Contents will vary by section.

218. Literature and Culture of the Third World
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. May be repeated for credit with a change in topic. Open to sophomores or higher.

The literature of regions outside North America and Europe. Contents of the course will vary according to regional focus.

219. Drama
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

An introduction to the chief forms and traditions of dramatic literature through the study of a broad range of major works.

220. Medieval English Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

Readings in the literature of the English Middle Ages — lyrics, narratives, dramas, and didactic forms.

220W. Medieval English Literature
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

Writers studied include More, Spenser, Shakespeare, Donne, Jonson, and Milton.
221W. Renaissance English Literature
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

222. Restoration and 18th-Century English Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

223. Romantic and Victorian English Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

224. Contemporary Irish Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

225. Irish Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

226. Modern Drama
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

227. World Literature in English
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

228. American Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

229. American Romantic Writing
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

230. Shakespeare I
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

231. Shakespeare II
Second semester. Three credits. Prerequisite: ENGL 230 or instructor consent.

232. Chaucer
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

233. Early and Modern Irish Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

234. Contemporary Irish Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

235. American History of English Language
First semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

236. Maritime Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

237. Maritime Non-Fiction
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

238. Maritime Writing
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

239. Maritime Drama
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

240. The English Language
First semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

241. The History of the English Language
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

242. Creative Writing I
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open only with consent of instructor.

243. The Canterbury Tales and other selected works, and such attention to the Middle English language as is necessary to an understanding of the text.

244. The History of the English Language
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

245. Creative Writing II
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open only with consent of instructor.

246. Creative Writing III
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open only with consent of instructor.

247. Writing Workshop
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open only with consent of instructor or Department Head. May be repeated for credit with a change in topic.

248W. Writing Tutorial
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. This course may be taken only in conjunction with specially designated sections of English courses numbered 200 or above and may be repeated only once for credit in conjunction with a different course.

249S. Advanced Expository Writing
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

249W. Writing Workshop
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to students' individual interests and needs.

250. Honors I: Approaches to Literature
First semester. Three credits. Hours by arrangement. Open only with consent of instructor. May be used to satisfy the ENGL 110 or 111 requirement. Not open for credit to students who have passed ENGL 109 or 110 or 111. May not be used to meet the English major requirements.

251W. Honors II: American Literature
Second semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Early writers and Romantics through Twain and James.

252W. Honors III: American Literature
First semester. Three credits. Hours by arrangement. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

253W. Honors IV: English Literature
First semester, alternate years. Three credits. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

254W. Honors V: English Literature
First semester, alternate years. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

Honors Courses
The Honors course sequence, ENGL 250 through ENGL 258, is recommended for students in the Honors Program but is also open to other qualified students. Most courses are weekly seminars on major writers and topics relating to intellectual and cultural backgrounds of English and American literature.

250. Honors I: Approaches to Literature
First semester. Three credits. Hours by arrangement. Open only with consent of instructor. May be used to satisfy the ENGL 110 or 111 requirement. Not open for credit to students who have passed ENGL 109 or 110 or 111. May not be used to meet the English major requirements.

251W. Honors II: American Literature
Second semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

252W. Honors III: American Literature
First semester. Three credits. Hours by arrangement. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

253W. Honors IV: English Literature
First semester, alternate years. Three credits. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

254W. Honors V: English Literature
First semester, alternate years. Three credits. Hours by arrangement. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

Semitextual and eighteenth century to Romantics.
256W. Honors VII: English Literature
Second semester, alternate years. Three credits. Hours by arrangement. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.
Nineteenth century literature.

256W. Honors VIII: English Literature
Second semester, alternate years. Three credits. Hours by arrangement. Open only with consent of instructor. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.
Twentieth century literature.

258. Honors VIII: Honors Thesis
Either semester. Credits and hours by arrangement. Prerequisite: ENGL 105 or 110 or 111 or 250. Open only with consent of instructor. All Honors students writing an Honors Thesis must register for this course in their last semester after consultation with the director of their thesis and the English department advisor to Honors Students, who is the instructor of record.

261. Latina/o Literature
(Also offered as PRLS 232.) Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250 or instructor consent. Gonzalez
Extensive readings in Latina/o literature from the late nineteenth century to the present.

262. Studies in Latina/o Literature
(Also offered as PRLS 233.) Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250 or instructor consent. May be repeated for credit with a change of topic. Gonzalez
Advanced study of a theme, form, author, or movement in contemporary Latina/o literature.

264. Studies in Individual Writers
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. May be repeated for credit with a change in topic.
Concentrated study in one or two authors writing in English.

265. Seminar in American Studies
(Also offered as INTD 263.) Second semester. Three credits.
An in-depth study of an event, historical period, or cultural production from an interdisciplinary perspective.

266. Studies in Criticism
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105.
Studies in the history and theories of literary criticism.

267. Studies in Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. May be repeated for credit with a change in topic.
Advanced exploration of various limited topics, such as a particular literary theme, form, or movement, to be announced from semester to semester.

268W. Seminars in Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. May be repeated for credit with a change in topic.
Intensive study of various limited topics, such as a particular literary theme, form, or movement, to be announced from semester to semester. Small classes with an emphasis on writing.

270. American Literature to 1880
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. Open to sophomores or higher.
American literature from the beginnings: Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, Douglass, Stowe, Dickinson, Twain, and others.

270W. American Literature to 1880
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

271. American Literature Since 1880
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. Open to sophomores or higher.
Modern and contemporary American literature: James, Wharton, Dreiser, Cather, Frost, Hemingway, Fitzgerald, Faulkner, Morrison, and others.

271W. American Literature Since 1880
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109. Open to sophomores or higher.

272. Native American Literature
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. Open to sophomores or higher.
Tilton, Makowski
Examination of the literatures of pre-contact, post-contact, and contemporary indigenous American cultures.

274. Asian American Literature
(Also offered as AASI 274.) Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. Open to sophomores or higher.
Chow
Literature, theatre, film about Asian American communities and culture in the United States from the mid-nineteenth century to the present.

276. Black American Writers I
First semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.
Critical and historical examination of the literature of black American writers. Scholars include James Baldwin, Franz Fanon, Malcolm X, and others.

276W. Black American Writers I
First semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

277W. Black American Writers II
Second semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.
Extensive readings in the works of four or five contemporary black American writers.

278. Ethnic Literatures of the United States
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.
The literatures of ethnic American authors. Writers may include Natachee Scott Momaday, Maxine Hong Kingston, Zora Neale Hurston, Rolando Hinojosa, Bernard Malamud, Nicholas Mohr, John Fante, among others.

278W. Ethnic Literatures of the United States
Prerequisite: ENGL 110 or 111 or 250 or both 105 and 109.

279. Advanced Study: Drama
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105.
Intensive study of particular topics in dramatic literature.
May be repeated for credit with a change of topic.

280. Advanced Study: Poetry
Either semester. Three credits. Prerequisite: ENGL 110 or 111 or 250 or 105. May be repeated for credit with a change of topic.
Intensive study of particular topics in poetry.
Environmental Engineering (ENVE)

Program Director: Nelly M. Abboud
Office: Room 312, F.L. Castleman Building

110. The Environmental Debate I
Second semester. One credit. May be repeated for credit (maximum of 3 credits).
Structured review of environmental issues and active debate during class time. Presentation of current environmental issues by environmental professionals and experts.

201. Decision Analysis in Civil and Environmental Engineering
(Also offered as CE 201.) First semester. Three credits. Prerequisite: MATH 114 or 116. This course may not be taken for credit if the student has taken CE 251, CE 281, or ENVE 251. Aagnostou, Ivan

210. The Environmental Debate II
Second semester. One credit. May be repeated for credit (maximum of 3 credits).
Structured review of environmental issues and active debate during class time. Presentation of current environmental issues by environmental professionals and experts.

251. Probability and Statistics in Civil Engineering
(Also offered as CE 251.) First semester. Three credits. Recommended preparation: MATH 113Q or 115Q/115V. Open to sophomores or higher. This course may not be taken for credit if the student has taken CE 251, CE 281, or ENVE 251. Aagnostou, Ivan
Application of statistical principles to the analysis of civil engineering problems. Topics include probability, random variable distributions, hypothesis testing, and linear regression analysis.

259C. Soil Chemistry
(Also offered as PLSC 259C.) First semester, alternate years, even. Three credits. Two class periods and one 2-hour laboratory period. Prerequisites: CHEM 128 and 141. PLSC 250 is recommended. Schulthess, N.
Basic concepts of the physical chemistry of soil constituents. Topics include soil solution, soil atmosphere, soil organic matter, soil mineralogy, mineral surface characteristics and chemical weathering processes.

260. Water Quality Engineering
(Also offered as CE 260.) Second semester. Three credits. Prerequisites: CE 263 and (CE 297 or CHEG 223). Abboud, Hoag, Smets
Physical, chemical, and biological principles for the treatment of aqueous phase contaminants; reactor dynamics and kinetics. Design projects.

262. Environmental Engineering Laboratory
(Also offered as CE 262.) Second semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisites: CE 263; and prerequisite or corequisite (CE 297 or CHEG 223). Abboud, Holmen, Smets
Aqueous analytical chemical techniques, absorption, coagulation/flocculation, fluidization, gas stripping, biochemistry, interpretation of analytical results, bench-scale design projects, written and oral reports.

262P. Environmental Engineering Laboratory
(Also offered as CE 262P.) Prerequisites: CE 263; and CE 297 or CHEG 223, which may be taken concur-rently; ENGL 105 or 110 or 111 or 250. Must be taken with another P course in Environmental Engineering to equal one W course.

263. Environmental Engineering Fundamentals
(Also offered as CE 263.) First semester. Three credits. Prerequisites: CHEM 128 or 130. Open to sophomores or higher. Hoag, Mackay, Smets

265. Hydraulic Engineering
(Also offered as CE 265.) Second semester. Three credits. Prerequisites: CE 297 or (CHEG 223 and CHEG 224). Aagnostou, Ogden
Design and analysis of water and wastewater transport systems, including pipelines, pumps, pipe networks, and open channel flow. Introduction to hydraulic structures and porous media hydraulics. Computer applications.

266. Hydraulic Engineering Laboratory
(Also offered as CE 266.) Second semester. Two credits. One class period. One 2-hour laboratory. Prerequisite: CE 297:

267. Engineering Hydrology
(Also offered as CE 267.) First semester. Three credits. Prerequisites: CE 297 or (CHEG 223 and CHEG 224). Aagnostou, Ogden

268. Limnology
(Also offered as CE 268 and as EEB 247.) First semester. Three credits. Prerequisites: (MATH 109 or 112 or 115) and (CHEM 122, 127, or 129 or 137). Recommended preparation: BIOL 107 or an introductory biology course.
Physical, chemical, and biotic interrelationships of freshwater habitats.

270. Environmental Engineering Chemistry
First semester. Three credits. Prerequisites: (CHEM 128 or 130) and MATH 211. Mackay
Qualitative variables governing chemical behavior in environmental systems. Thermodynamics and kinetics of acid/base, coordination, precipitation/dissolution, and redox reactions. Organic chemistry nomenclature.

279. Environmental Modeling
(Also offered as CE 279.) Second semester. Three credits. Prerequisites: CE 263 and (CHEG 223 or CE 297).
Systematic approach for analyzing contamination problems. Systems theory and modeling will be used to assess the predominant processes that control the fate and mobility of pollutants in the environment. Assessments of lake eutrophication, conventional pollutants in rivers and estuaries and toxic chemicals in groundwater.
280. Introduction to Environmental Rate Processes
(Also offered as CHEG 280.) First semester. Three credits. Recommended preparation: CHEM 128.
Application of thermodynamics, chemical kinetics and transfer operations to environmental problems; water pollution control. Open only to students not majoring in chemical engineering.

281. Introduction to Water Pollution
(Also offered as CHEG 281.) Second semester. Three credits. Recommended preparation: CHEG 224.
Water purification processes and water quality control; aeration and mass transfer, biological mechanisms and kinetics; design of biological reactors and sludge treatment facilities; design and operation of physical purification methods; alternative processes for industrial wastewater treatment.

283. Introduction to Biochemical Engineering
(Also offered as BME 221 and as CHEG 273.) First semester. Three credits. Recommended preparation: CHEG 251. Wood Enzyme and fermentation technology: microbiology, biochemistry, and cellular concepts; biomass production; equipment design, operation and specification; design of biological reactors; separation processes for bio-products.

285. Introduction to Air Pollution
(Also offered as CHEG 285.) Second semester. Three credits. Recommended preparation: CHEG 211 or ME 233 or ME 238. Helble Gaseous pollutants and their properties; basic analytical techniques for air pollutants; particulate pollutants and their properties; equipment design for removal of gaseous and particulate materials; economic and environmental impact of air pollutants; federal and state regulations.

290W. Environmental Engineering Design I
First semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. To be taken during the senior year. Students working individually or in groups produce solution to environmental engineering design projects from data acquisition through preliminary design, cost estimating and final specifications, oral presentation and written reports.

291W. Environmental Engineering Design II
Second semester. Three credits. Prerequisite: ENVE 290W. To be taken during the senior year. Students working individually or in groups complete the implementations of protocols and techniques covered in ENVE 290W, final cost of entire project, feasibility, oral presentation and written reports. Instructors will supply initial conditions and performance expectations.

295. Special Topics in Environmental Engineering
Semester. credits, and hours by arrangement as announced. Prerequisite and/or consent: Announced separately for each course. Course may be repeated for credit. Classroom or laboratory course on specific topics as announced.

296. Thesis
Either semester. Three credits. Prerequisite: Consent of instructor.
Designed to extend student knowledge in a specialized area of environmental engineering and introduction to research.

299. Independent Study
Either or both semesters. Credits by arrangement, not to exceed six in any semester. Open only with consent of instructor. Individual study of special topics in law as mutually arranged between student and instructor.

European Studies (ES)

Program Advisor for Center for European Studies: Ludmilla Burns Office: Room 5, Human Development Center

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Director required, normally to be granted prior to the student’s departure. With a change in content, may be repeated for credit.

295. Special Topics in European Studies
Either or both semesters. Three credits. With a change in topic, may be repeated for credit.
Intensive study of specialized topics related to Europe, not ordinarily covered in the undergraduate curriculum; normally one-time offerings taught by distinguished visiting scholars and/or jointly appointed faculty.

298. Variable Topics
Either or both semesters. Credits to a maximum of three.
Intensive study of specialized topics relating to Europe not ordinarily covered in the curriculum. With change in topic, may be repeated for credit.

299. Independent Study
Either semester. Credits and hours by arrangement. Requires independent study Authorization Form from European Studies faculty.
For thesis preparation or other intensive research project relating to Europe. May be repeated for credit. Sponsored by the Center for European Studies.

Finance (FNCE)

Head of Department: Professor James T. O’Brien Department Office: Room 464, School of Business

201. Financial Management
Semester. Three credits. Prerequisite: ACCT 200, which may be taken concurrently: ECON 111 and 112 or 110; ENGL 110 or 111 or 230, or (105 and 109); MATH 100 or 11 or 116; and STAT 100 or 110. Not open to students who have passed or are taking BADM 230.
An introductory examination of how a business plans its needs for funds, raises the necessary funds, and invests then to attain its goals.

202. Investment and Security Analysis
Either semester. Three credits. Prerequisite: FNCE 201.
A study of the nature of securities, the mechanics and costs of trading, and the way in which securities markets operate. Risk-return analysis will be applied in making decisions to buy or sell stocks, bonds and options. Written analysis is required.

202W. Investment and Security Analysis
Prerequisite: FNCE 201.

203. Applications in Financial Management
First and/or second semester. Three credits. Prerequisite: FNCE 201. Recommended preparation: OPIM 203C.
An intermediate level course using cases i.e., problems faced by actual firms, to teach students how to apply financial management concepts and techniques to real-world situations.

203P. Applications in Financial Management
Prerequisite: FNCE 201. Recommended preparation: OPIM 203C. May be taken with FNCE 206P to equal one W requirement.

204. Financial Risk Management
First and/or second semester. Three credits. Prerequisite: FNCE 201.
Applications of financial structuring and engineering with particular attention to uses of derivatives.

205. Global Financial Management
Either semester. Three credits. Prerequisite: FNCE 201.
Focuses on the detailed study of: (1) exchange rate determination, (2) operation of the foreign currency and global capital markets, and (3) hedging both transactions and economic exposure to exchange rate changes.

206. Financial Services
First and/or second semester. Three credits. Prerequisite: FNCE 201.
Study of the role of financial services companies in the money and capital markets, funds acquisitions, investment and credit extension.

206P. Financial Services
Prerequisite: FNCE 201. Must be taken with FNCE 203P to equal one W requirement.

210. Personal Finance
Either semester. Three credits. Recommended preparation: Completion of a college level math course is strongly recommended.
Designed to provide students with practical financial management skills that will enable them to identify their personal financial goals, and to plan and make financial decisions that will help them reach those goals. Topics include budgeting, investing, effective use of cash and credit, taxes, insurance, housing and automobile purchases, and retirement planning.

217. Economics for Global Business Decisions
First and/or second semester. Three credits. Prerequisite: FNCE 201 (may be taken concurrently).
Impact of globalization of the world economy on business and financial decisions. Trade, balance of payments, tariff policies, international economic institutions, exchange rates, capital flows.

218. Financial Management
Three credits. Prerequisite: FNCE 201 or BADM 230 or MATH 285 or MATH 287.
A study of the concept of risk and its treatment by insurance. It covers why the individual or corporation
223. Health Insurance  
Second semester. Three credits. Prerequisite: FNCE 221.

This course will provide a detailed overview of health insurance from the perspective of insurance company owners, employers, and individual consumers of health insurance services. Emphasis is given to individual and group health insurance product management and to the relationship between product characteristics, insurance company investments, financing, and marketing decisions. Managed care techniques, benefit package design and cost sharing mechanisms are assessed in the context of resolving incentive conflicts and meeting cost-containment objectives. Evaluation of insurance company financial strength and the impact of regulation on company management and behavior are considered in detail.

224. Social Insurance  
Second semester. Three credits.

An examination of causes, effects and proposed remedies for financial insecurity resulting from occupational injuries, unemployment, old age and premature death, and general illness. Emphasis is placed on the role of the government in dealing with these economic problems.

225. Life Insurance and Retirement Security  
First semester. Three credits. Prerequisite: FNCE 221.

Focuses on the basic principles underlying life insurance, pensions, and other methods of insuring for financial security. Emphasis is given to the following general topics: the need for life insurance and annuities, individual retirement planning, employer provided group insurance and pensions, types of life insurance and annuity contracts, deferred compensation plans, the mathematics of life insurance, company operations, regulation, settlement options and life insurance programming.

226. Risk Management: Property and Liability Exposures  
First semester. Three credits. Prerequisite: FNCE 221.

This course critically examines the risk management process introduced in FNCE 221. Emphasis is on identification and treatment of pure loss exposures faced by commercial and institutional entities. Available risk management treatment techniques are identified and discussed. Analysis of applicable commercial property and liability insurance coverages are stressed.

228W. Risk Management: Property and Liability Exposures  
Prerequisite: FNCE 221; ENGL 105 or 110 or 111 or 250.

230. Real Estate Principles  
Either semester. Three credits.

Overview of the personal, social and business aspects of real estate. Emphasis on home purchase decisions, location analysis, market characteristics and investment decision-making.

232. Real Estate Investments  
First or second semester. Three credits. Prerequisite: FNCE 201 or FNCE 230 or BADM 230.

Risk-return analysis for alternate types of real estate investments. Techniques and applications of investment decision-making and value estimation. Lease analysis, cash flow, forecasting, appraisal techniques, discounted cash flow modeling, portfolio management, and equity securitization including real estate investment trusts.

233. Real Estate Finance  
First or second semester. Three credits. Prerequisite: FNCE 201 or FNCE 230 or BADM 230.

Investment characteristics of mortgages and the structure and operation of mortgage markets -- both primary and secondary, including the role of securitization. Risk and return characteristics of various mortgage instruments, both residential and commercial, are analyzed from the perspective of both the borrower and lender. Tools for measuring and managing the risks of portfolios of mortgages and mortgage-backed securities are introduced.

234. GIS Applications and Use of the Internet in Real Estate Markets  
First or second semester. Three credits.

How does a business decide where to relocate? Specialized Geographic Information Systems (GIS) are now used to make retail, office, and industrial location decisions. The Internet opens new sources of timely information. This gives decision-makers unprecedented power to manage data and analyze risks. Students gain hands-on experience with GIS and Internet through projects organized around real estate problems.

239. Field Study Internship  
Summer session. One to three credits. Hours by arrangement. Prerequisite: Students enrolled in the Real Estate Intern program must have earned a “C” or better in Finance 230. For all others, completion of Finance 201 and at least one other finance course related to the investing role, with a grade of “C” or better in each course. Consent of instructor and Department Head prior to beginning the internship. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).

Designed to provide students with an opportunity for supervised field work in relevant major areas within the Department. Students will work with one or more professionals in their major academic area. Student performance will be evaluated on the basis of an appraisal by the field supervisor and a detailed written report submitted by the student.

293. Foreign Study  
Either or both semesters. Credits and hours by arrangement, up to a maximum of six credits. Consent of Department Head required, prior to the student’s departure.

Special topics taken in a foreign study program.

296W. Senior Thesis in Finance  
Either semester. Three credits. Hours by arrangement. Prerequisite: ENGL 105 or 110 or 111 or 250. Open only to Finance Department Honors Students with consent of instructor and Department Head.

298. Special Topics  
Either semester. Credits and hours by arrangement. Prerequisite: Announced separately for each offering. With a change in content, may be repeated for credit.

Classroom course in special topics in finance, insurance or real estate as mutually arranged between a student and an instructor.

References should be made to the offerings of art, dramatic arts and music. The courses listed below are of common interest to students in various disciplines.

Both semesters. Two credits. One 2-hour evening meeting per week. Molette Guest lecturers and University faculty discuss their points of view as black creators, with particular reference to social context and creative expression, and discuss historical and cultural perspectives of African and African-American arts with emphasis on the influences and developments affecting African-American creators of today.

200. The Arts and Their Interrelations  
Either semester. Three credits. Hours by arrangement. Open only to juniors and seniors with consent of instructor.

Comparative study of the visual arts, music and theatre in selected periods.

French (FREN)

Head of Department: Professor David K. Herzberger  
Department Office: Room 228, J.H. Arjona Building  
Consult the Modern and Classical Languages Department listing in this Catalog for requirements for Majors in French.

Consult the Departmental Handbook for courses offered and further description of these courses.

161-162. Elementary French I and II  
Both semesters. Four credits each semester. Four class periods and a one-hour laboratory period. The fourth class period is devoted to culture and society and re-inforses through these areas the linguistic skills taught in the preceding classes. Not open for credit to students who have had three or more years of high school French. Students who wish to continue in French but feel ill prepared should contact the head of the Modern and Classical Languages Department.

Elementary French grammar. Emphasis is on the skills of speaking, oral and written comprehension, reading of simple texts and writing.

163-164. Intermediate French I and II  
Both semesters. Four credits each semester. Four class periods and a one-hour laboratory period. The fourth class period is devoted to culture and society. Prerequisite: FREN 162 or 173 or two years of high school French.


165-166. French for Reading Knowledge  
Either semester. Three credits per course. Open only to seniors and graduate students. Not open to undergraduates who have had FREN 161-162 or 172-173. May not be used to meet the undergraduate foreign language requirement or as a prerequisite for other French courses.

Basic French grammar and intensive practice in reading expository prose in a variety of subjects, for use as a research tool and in preparation for the Ph.D. reading examination.

169. Studies in the French-Speaking World  
Either semester. Three credits. Conducted in English.

Recent trends in French life. Selected materials to acquaint students with the French contribution to the changing face of modernity. Weekly topics include:
popular culture, women in France, cultural myths, the Francophone world, regionalism, decolonization and racism, etc.

171. French Cinema
Either semester. Three credits. One 3-hour class period. Readings, viewings and lectures in English. May not be used to meet the foreign language requirement.

Weekly screenings of French films from the first comedies and surrealism to the New Wave and the young filmmakers of the 1990’s. Introduction to film history, analysis, and interpretation of films.

172 through 175. Intensive French I-IV
Both semesters. Eight credits each semester. Two hours a day, four days a week, plus a 2-hour laboratory practice. Open only with consent of instructor. Intensive coverage of two years in two semesters. French 172-173 (fall) covers the same material as 161-162; French 174-175 (spring) covers the same material as 163-164.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally before the student’s departure.

Special topics taken in a foreign study program.

210. French Art and Civilization
First semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Studies of the arts in the cultural context of French and Francophone civilization, from the Middle Ages to the late nineteenth century. Considerations of social systems, passions, sexuality, relations of power in their manifestations in architecture, painting and sculpture. Some lectures by and discussions with experts from Anthropology, Music, Political Science, History, and Art History.

211. Contemporary France
Second semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

An historical and cultural overview of France in the 20th and 21st centuries: from D-Day to the European Union, from Communism to the Green Party, from ballad crooners to rap, from love stories to action films; the changing French nation through authentic documents, literary texts, and films.

215. Practical Translation
Either semester. Three credits. Recommended preparation: FREN 267 or 268 or instructor consent.

The course is primarily designed to acquaint students with the practical aspect of translating by working on a variety of articles on politics, science, business, and the arts.

216. Advanced Translation
Either semester. Three credits. Prerequisite: FREN 215 or instructor consent. Gordon, Melehy

Translation of texts from the press, contemporary literature, film, and media. This level of translation requires the completion of an individual project.

217. Business French
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

French and international business, from day-to-day entrepreneurial operations to the new European economy and globalization. Preparation for the Diplôme de Français des Affaires given by the Paris Chamber of Commerce and Industry. Recommended for those interested in working in international business and institutions.

218. Francophone Studies
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or 210 or 211 or instructor consent.

The literatures, societies, and cultures of French-speaking countries in North Africa, West Africa, the Caribbean, the Pacific and of Francophone communities of Europe and North America.

220. Theater Studies
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

A study of French dramatic texts and genres (tragedy, comedy, melodrama, etc.). Popular theatre. The theory and practice of performance in contemporary France. The semiotics of stage production. Use of audio-visual material.

221. Forms and Topics in French Fiction
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

A study of literary forms in prose in their social and cultural contexts. Forms include: classic psychological novel, classic and contemporary science-fiction, the realist novel, the fantastic short story, the new novel, detective fiction, electronic fiction.

222. Poetry
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Examples of poetry of different epochs ranging from the epic to the lyric to the limerick.

223. French Film and Theory
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or 210 or 211 or instructor consent.

French and Francophone film and its aesthetic and social function. Evolution of film language and the relation of film to literature and to other cultural expressions. May be offered in English or in French.

224. Issues in Cultural Studies, the Media, and the Social Sciences
Either semester. Three credits. Recommended preparation: FREN 211 or instructor consent. May be repeated twice for credit.

The economics of the media industry, mass audiences and cultural contexts. Forms include: classic psychological novel, classic and contemporary science-fiction, the realist novel, the fantastic short story, the new novel, detective fiction, electronic fiction.

225. Issues in Cultural Studies, the Media, and the Social Sciences
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or 210 or 211 or instructor consent.

The economics of the media industry, mass audiences and cultural contexts. Forms include: classic psychological novel, classic and contemporary science-fiction, the realist novel, the fantastic short story, the new novel, detective fiction, electronic fiction.

226. French and Francophone Cinema
Either semester. Three credits. Prerequisite: FREN 210 or 211 or 261 or 262, or instructor consent.

Moments and themes in the history of French and Francophone cinema, studied chronologically.

231. Renaissance and Reformation
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

Literary works from the sixteenth century in their cultural context: the secularization of daily life, passions, religious violence, the changing roles of women and reconceptualizations of sexuality, representations of the body, the relationship to Greco-Roman Antiquity; the relationship to the “Other,” the “New World.”

232. French Classical Culture and Society
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

Exploration of cultural and social change through literature and art. Women and Salons, theories and discourses on love and passions, the Cartesian revolution, the Libertins, classical science-fiction and utopias, classical comedy and tragedy, political absolutism, Versailles and the Sun King, classical colonialism and nationalism, the Ancients, and the Moderns.

233. The 18th Century: Travelers, Philosophers, and Libertines
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

The most important texts and figures of the Enlightenment: Montesquieu, Voltaire, Diderot, and Rousseau.

234. Romanticism, Realism, Fin de Siècle: 19th-Century Literature
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

The literary and artistic innovations that made France the center of 19th-century culture. The Fantastic, Realism, Naturalism, and Decadence.

235. French Modernity
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

A portrait of France in the 20th Century through contemporary French literature: exoticism, sexuality, war, colonialism, feminism, end of the century, related films and works of art.

250. Global Culture in French I
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Intense study of oral French. Learning of oral techniques of communication in conjunction with weekly topics of conversation associated with various francophone cultures. Rigorous and active oral practice through dialogues, interviews, roundtables, and oral reports.

251. Global Culture in French II
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Extensive practice in oral French based mainly on authentic cultural materials. Emphasis on perfecting language skills for self expression and communication, on developing new vocabulary, and on recognizing and working with linguistic differences associated with various francophone cultures.

257. French Phonetics
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

A comprehensive study of the French phonetic system. Practice pronouncing French as the French do in a wide array of contexts.

258. French Language: From Old French to Modern Slang
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or instructor consent.

French language through the ages, from the very first literary texts written in “Old French” to the modern variations corresponding to different linguistic levels.

261. From the Holy Grail to the Revolution: Introduction to Literature
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Texts from the Middle Ages to the 18th Century,
including the Arthurian legend, Renaissance poetry, Classical theater, and the philosophy of the Enlightenment in the cultural context in which they were produced.

262. From the Romantics to the Moderns: Introduction to Literature
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Study of poetry, theater and prose fiction that marks the evolution from the psychology of the romantic hero and heroine to Existentialist philosophy and the New Novel, and contemporary fiction and poetry.

267. Grammar and Culture
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

The study of French and Francophone culture through fiction, non-fiction, journalism and film. Emphasis on perfecting both oral and written expression through discussion, presentations, and composition on assigned topics.

268. Grammar and Composition
Either semester. Three credits. Recommended preparation: FREN 164 or 175 or three years of high school French or instructor consent.

Advanced study of French texts and extensive written practice in a variety of forms ranging from compositions, essays, summaries and film reviews.

269. Advanced French Grammar
First or second semester. Three credits. Three hours per week. Recommended preparation: French 268 or equivalent.

Intensive course in French grammar through a variety of fictional and non-fictional texts.

270W. French Literature and Civilization in English
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250.

Representative works of French literature, on a particular theme. How literary forms articulate the ideas and values of different periods.

272. French Literary Theory
Either semester. Three credits. Recommended preparation: FREN 268 or instructor consent.

Introduction to French literary theory, as informed by linguistics, semiotics, historical materialism, psychoanalysis, philosophy, feminist studies, postmodernism and postcolonialism. Critical practice applied to French and Francophone literatures, popular culture, advertising, the media, electronic writing.

280. Women's Studies in French
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or 210 or 211 or instructor consent.


281. Quebec Studies
Either semester. Three credits. Recommended preparation: FREN 261 or 262 or 210 or 211 or instructor consent.

Study of French-Canadian society and its literary and artistic production. Special attention will be given to current issues.

283. French Cultural Studies
Either semester. Three credits. Recommended preparation: FREN 261 or 262.

French and Francophone cultures and societies. Themes and topics include: sexuality and politics, education and violence, France and the USA, France and Africa, French multiculturalism, French music (including rap), cities and “banlieues,” social and cultural effects of globalization.

283. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally to be granted prior to the student’s departure. May count toward the major with consent of the advisor.

Special topics taken in a foreign study program.

285. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298. Special Topics
Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit. Prerequisites and recommended preparation vary.

299. Independent Study
Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. With a change in content, may be repeated for credit.

Study Abroad Program in France.

The University sponsors an academic program at the University of Paris in France. A program description can be found in this Catalog within the Modern and Classical Languages Departmental listing, College of Liberal Arts and Sciences.

General Studies (GS)

Bachelor of General Studies and Non-Degree:
Room 114, Merlin Bishop Center

For major requirements, see the College of Continuing Studies section of this Catalog.

200. BGS Continuous Registration
Either semester. No credit.

A course without academic credit for which BGS students must register when not taking credit courses at any college or university for use in the BGS program during a particular semester.

201. BGS External Study
Either semester. No credit. Open only with consent of BGS advisor.

A course without academic credit for which a BGS student must register when taking approved credit courses at another college or university for transfer back into the BGS program at the University of Connecticut.

209. Introduction to UNIX/Linux
Either semester. Three credits. Prerequisite: Basic computing skills required. Online access required.

This course is intended for those wanting to understand what UNIX is and how to use it. You will gain a technical overview of UNIX by building your knowledge and understanding through hands-on experiences. The topics covered will include basic commands and system structures; system tools; output redirection; command line text editing, e-mail and system calls; file system basics; and basic shell scripting. The course material is intended to prepare students for versatile use of any UNIX system and as a foundation for numerous UNIX certification programs.

210. Introduction to Information Technology
Either semester. Three credits.

This is an overview of information technologies including fundamentals of the Internet, service protocols, web development and deployment, and fundamentals of networking.

211. Introduction to Object Oriented Programming with Java
Either semester. Three credits.

Fundamentals of the Java language with applied object-oriented techniques. Topics covered: classes and methods, application and applet modes, and graphical interfaces.

212. Introduction to System Administration with UNIX/Linux
Either semester. Three credits. Prerequisite: ENGL 209 or equivalent experience. Basic computing skills and an understanding of the UNIX/Linux operating environments required. Online access required.

This course will expand the use of a UNIX system from that of the user to the administrator. You will gain the ability to perform system administration tasks and gain a greater understanding of process interdependencies, kernel resource management and system control. Topics covered will include installation, file system structure, data transfer, backup and recovery, user and process administration, system security features, system startup and shutdown, performance monitoring and troubleshooting techniques. Since it is impossible to cover all aspects of system administration in depth, the focus of this course is on developing a mindset that acts as a springboard to developing your skills.

213. Web Application Development with PERL/PHP
Either semesters. Three credits. Prerequisite: Basic computing skills required. Unix skills course required; can be taken concurrently.

This course will immerse the student in the culture of web application programming. Through participation in cooperative assignments the student will gain appreciation for the process of web application development. This includes the design and implementation of simpler programs and the group development of advanced web applications.

217. Entrepreneurial I
Either semester. Three credits. Not applicable to School of Business degree requirements.

“The Idea” and it is really viable; market research and the competition; promotion and advertising; patents, copyrights, and trademarks; cash flow management; pricing of products and services; record keeping and accounting; organization forms such as incorporation, partnerships and dba; taxes and tax implications of decisions and actions; government regulations; leases and licenses; and how to get your accountant and lawyer involved.

218. Entrepreneurial II
Either semester. Three credits. Not applicable to School of Business degree requirements.

Interviewing, hiring, evaluation and firing of employees; legal issues related to Human Resources; fringe benefit issues; time management; providing excellent customer service; the diversity of the market place; presentation skills and presentation etiquette; using PowerPoint for presentations and proposal preparation; how to deal with success and growth; how to deal with failure; the positives and the negatives of being an entrepreneur and is it for you.

219. Advanced Entrepreneurial
Either semester. Three credits. Not applicable to School of Business degree requirements.

Integrating topics in Entrepreneurial Skills I and II with more detailed information on types of financial support and how the types differ, on pricing a product and service in the marketplace, on what e-commerce is and how to use it effectively together with more traditional marketing methods, and on the managerial and fiscal management that is required for success; quality control issues, working in teams and team
220. **Entrepreneurial Seminar**  
Either semester. Three credits. Not applicable to School of Business degree requirements.  
The purpose of this course is to prepare students for entrepreneurial activity or doing the plan as an academic exercise. Each student or team must present the plan to class on a trial run basis for class comment and analysis. The polished business plan must then be presented to an external panel and the panel acts as if it were a funding agent being asked to give money to implement the plan.  

221. **Dimension of American Civic Engagement**  
Either semester. Three credits.  
The purpose of this course is to examine the concept of citizenship in America and to discuss and evaluate the state of citizenship through historical, philosophical, cultural and contemporary political analyses. Discussion course will focus on selected theoretical traditions of citizenship, the historical development of citizenship and community in America, citizenship as political participation, some challenges to participation, and the development of citizenship skills. Through discussion of assigned readings and current issues, it is hoped that the student will come to a greater understanding of rights, responsibilities, and unique challenges of civic engagement that frame the concept of citizenship in America.  

222. **Federal Law and Collective Bargaining**  
Second semester. Three credits. Hoffman, Sullivan  
This course provides the student with the fundamental skills needed to understand the collective bargaining under federal law.  

223. **Web Authoring and Content Management I**  
First semester. Three credits. DePalma  
This course is an introduction to creation and management of web content. Discusses information architecture and mark-up languages as a means to design, relate, and compose documents for the web. Technical topics covered include: Hypertext markup language and XHTML.  

224. **Web Authoring and Content Management II**  
First semester. Three credits. Prerequisite: GS 223. DePalma  
This course continues the examination of web authoring and management, focusing on security and commerce. Topics examined from consumer, infrastructure, and content-provider perspectives. Topics include: cryptography, digital identification, privacy, physical security, certificates, content filtering, and intellectual property.  

225. **Web Applications I: Client Side Scripting**  
First semester. Three credits. DePalma  
The structure and function of client side scripting languages such as JavaScript. This course covers programming concepts from the beginning. Topics covered include: application development methodologies, variables and arrays, program flow control, functions, and objects. Web-specific topics include: JavaScript objects, events, forms, regular expressions, cookies, and platform and browser capability.  

226. **Web Graphics and Layout**  
First semester. Three credits. Prerequisite: GS 223, 210 and/or department head or instructor consent. DePalma  
Examination and use of the techniques and tools used to create functional and attractive web content. Topics include: image selection and editing, typography, designing navigational elements, animation and multimedia.  

230. **Database Systems for the Web**  
Either semester. Four credits. Prerequisite: GS 223. DePalma  
This course discusses the administration of data systems, database design, and data delivery for the web. Topics include: UML, data driven tag sets, client-side and server side scripting, SQL queries, security issues, and data system administration.  

231. **Web Server Administration**  
First semester. Three credits. Prerequisite: GS 212. DePalma  
This course will provide students with in-depth knowledge of web services administration. The material will cover initial system configuration; web server installation; web server configuration; administering the web server, web users and hosting accounts; automating user account management; security issues, and troubleshooting. Hands-on experience through labs and projects will reinforce the reading, coursework and exams.  

232. **Web Metrics and Analysis**  
Second semester. Three credits. Prerequisite: GS 231 and STAT 110. DePalma  
A thorough examination of the quantification and qualification of web utilization. Topics include: counting methods, hierarchical methods, and analysis of dynamic content and errors.  

240. **Marketing Concepts and Practices into the 21st Century**  
Either semester. Three credits. Not applicable to School of Business degree requirements.  
Discussion of marketing concepts, processes, strategies and management within context of product/service organizations both in the profit and the non-profit sector whether large or small.  

241. **Financial Statement Analysis for Non-Financial Managers**  
Either semester. Three credits. Not applicable to School of Business requirements.  
Concepts and principles to enable non-financial managers to intelligently read and analyze financial reports.  

261. **Issues in Contract Bargaining**  
Both semesters. Three credits. Sullivan  
This course provides the student with the introductory skills needed to participate fully in bargaining.  

262. **Introduction to Mediation and Arbitration**  
Second semester. Three credits. Crosdale, Sullivan  
This course provides the student with the fundamental skills needed to participate fully in any situation requiring dispute resolution capacities.  

271. **Workplace Chemical Hazards**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the workplace chemical hazard and their biological effects.  

272. **Workplace Safety Hazards**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the workplace safety hazards and their occurrence and controls.  

273. **Psychology of Workplace Safety**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the human factors and behavior which impact upon the safety performance of workers in the workplace.  

274. **Workplace Environmental Issues**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the environmental factors and how they impact the workplace.  

275. **Workplace Environmental Law and Regulations**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the environmental laws and regulations and how they impact the workplace environment.  

276. **Workplace Security and Violence**  
Both semesters. Three credits.  
This course provides a comprehensive overview of the workplace security issues and the aspects of workplace violence.  

277. **Hazardous Chemicals**  
Either semesters. Three credits. Reese  
This course is a writing course that has as its subject hazardous chemicals and their use in the workplaces, their effects on the environment, and the hazards caused by exposure to them.  

285. **Introduction to Hinduism**  
Both semesters. Three credits. Joshee, Pandey  
Study of one of the world’s oldest religions and how its distinct traditions that have enhanced the lifestyles of more than 800 million people in several countries of Asia. Reviews Hinduism’s history, heritage, and philosophy. Closely examines the practices of this religion in Nepal, the only Hindu country.  

286. **Introduction to Nepali Culture**  
Both semesters. Three credits. Aryal, Joshee  
Introduction to different cultures and traditions found among various ethnic groups of Nepal. It will examine the two religions widely practiced in Nepal, mainly Hinduism and Buddhism, its affect in shaping the cultural values in people’s lives.  

287. **Introduction to Buddhism**  
Both semesters. Three credits. Joshee, Pandey  
Study of Buddhism, Buddhist culture, and the teachings of Buddha. Examines different schools of the religion and their distinct literary and cultural traditions with special emphasis on Buddhism in Nepal as a cultural example. Students are challenged to apply the ethical foundations, the Four Noble Truths, and Eightfold Path to their own lives. Discusses the influence that cultural background has on understanding of the world.  

288. **Introduction to Himalayan and Tibetan Culture**  
Both semesters. Three credits. Dhungel, Joshee  
This course includes a semester long online study in which the students will be introduced to the origin, development and nature of the Himalayan or Tibetan religions and cultures. This course will provide the student with enough knowledge and confidence to enable them to communicate the fundamental
knowledge of Tibetans in Nepal, Tibetan culture, and the people of the Himalayan region and their cultural and religious practices.

293. Foreign Study
Either semester. Credits and hours by arrangement. Joshee, Rodin

Utilizing experiential learning approaches, this course will provide students the hands-on opportunity to learn about a particular country, culture, religion, society and people. Students in this course will physically travel to the country to be studied and participate in a series of lectures and seminars together with site visits and field trips of historic places, educational institutions, museums and libraries.

295. Integrating General Studies
Both semesters. Three credits. Fuchsan

Integrates the fields of general and interdisciplinary studies. Traces emergence of interdisciplinary studies and compares different academic disciplines. Future of interdisciplinary studies is assessed.

296. BGS Internship
Either semester. Credits and hours by arrangement. Open only with consent of instructor and BGS mentor/advisor. With a change in content, may be repeated for credit.

297. BGS Summary Project
Either semester. Three credits. Open only with consent of BGS mentor/advisor.

A project demonstrating the student’s educational accomplishments and ability to synthesize the disciplines studied into a coherent whole.

298. Variable Topics
Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit.

299. Independent Study
Either semester. Credits and hours by arrangement. Open only with consent of instructor and BGS mentor/advisor. With a change in content, may be repeated for credit.

Geography (GEOG)

Head of Department: Professor William Berentsen
Department Office: Room 422, College of Liberal Arts
and Sciences Building

For major requirements, see the College of Liberal Arts and Sciences section of this Catalog.

104. Introduction to Geography
(Formerly offered as GEOG 150.) Either semester. Three credits. Two class periods and one 1-hour discussion/laboratory period.

Principles, concepts and methods of modern geography are developed both in general form and specific case studies. Examples pertaining to both the human and physical environment will be discussed.

105. Climate, Weather, and the Environment
Either semester. Three credits.

Interactions between weather and climate and the human and natural environment. Emphasis on understanding the linkages between natural processes and societal/environmental issues.

130. The City in the Western Tradition
(Also offered as URBN 130.) Either semester. Three credits.

A broad discussion of the role and structure of the city in the western tradition from the Classical period to contemporary America. Special emphasis will be placed on the mechanisms by which cities and ideas about them have been diffused from one place to another and on the changing forces that have shaped the western city.

160. World Regional Geography
Either semester. Three credits.

Study of geographic relationships among natural and cultural environments that help to distinguish one part of the world from another. Analysis of selected countries as well as larger regions, with specific reference to the non-western world.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head or advisor may be required prior to the student’s departure.

Special topics taken in a foreign study program.

200. Economic Geography
Either semester. Three credits. Open to sophomores or higher.

Examination of the relationship among economic, cultural, and geographic processes which affect the patterns, structure, and growth or decline of economic activities. The global extent of the agricultural, manufacturing, and service sectors is presented with particular emphasis on the interdependency of non-western and western economies.

204. Global Issues in Human Geography
First semester. Three credits.

Geographic perspectives on global issues focusing on the relationships between human behavior/activities, and the physical, economic, and cultural environments.

205. Introduction to Physical Geography
Either semester. Three credits. Open to sophomores or higher.

The physical elements and processes of the lithosphere, hydrosphere and atmosphere are considered in relation to one another and to the distribution of the world’s environments. Emphasis on the basic concepts and theories of physical geography.

210. Social Uses of Space
(Formerly offered as GEOG 211.) Second semester. Three credits.

Identification of social space (regions) at varying scales from neighborhood to national, and movement within and among these social spaces. Attention also to geographical aspects of social identity, including territoriality and community, and problems of locating social facilities.

210W. Social Uses of Space
Prerequisite: ENGL 105 or 110 or 111 or 250.

Climate and Weather
First semester. Three credits.

Analysis of atmospheric processes giving rise to weather systems and climatic patterns. The dynamic integration of atmospheric systems is emphasized.

230. Fluvial Geomorphology
First semester, alternate years. Three credits. One required weekend field trip. Prerequisite: GEOG 205 or GEOL 102 or BIOL 108 or instructor consent.

Physical forms and processes associated with rivers. Factors controlling open-channel flow, sediment transport, channel morphology, adjustments of rivers to environmental change, and human impacts. River management and restoration strategies.

231. Location Analysis

The study of issues and approaches in location analysis. Topics include location, theory and models, impacts of locational choice, systems analysis, evaluation of service areas, land use allocation, accessibility and locational conflict. Implications for planning and public policy are stressed.

292. Principles and Applications of Physical Geography
First semester. Four credits. Recommended preparation: GEOG 205 or 215. Not open for credit to students who have passed GEOG 214 or 232W.

Laboratory and field study of the physical environment. Techniques, methodologies, and basic concepts of physical geography.

233. Urban Geography
(Also offered as URBN 233.) First semester. Three credits. Not open for credit to students who have passed GEOG 212 or URBN 212.

Analysis of the growth, distribution, and functional patterns within and among Western cities. Application of urban geographical concepts to city planning problems.

234. The Geography of Economic Development
Second semester. Three credits. Prerequisite: GEOG 200.

Analysis of processes and patterns of economic organization and spatial change at the international, national and intra-national scales. Examines development from both linear (neo-classical) and structuralist (political economy) perspectives, and emphasizes relationships between advanced and developing economies within the context of the global economy.

236. Human Modifications of Natural Environments
Either semester. Three credits. Not open for credit to students who have passed GEOG 206.

A geographical and historical interpretation of the changing relationships between culture and environment. Emphasis on the modification of the biophysical environment by pre-agricultural, agricultural and urban societies in Europe, southwest Asia, and North America.

237. Environmental Planning and Management

The basic elements of the conflict between human environments and natural systems are considered, along with the methods of analysis and resolution of problems caused by that conflict. Emphasis on public policy related to environmental issues.

238. Applied Population Geography
Either semester. Three credits. Recommended preparation: GEOG 104 (Formerly GEOG 150) or 200.

The study of the composition and growth of small-area populations with respect to public and private sector decision making in more developed societies. Basic concepts and techniques for analyzing local populations are presented in the context of significant population issues in the United States.

239. Geography of Asian American Experience
(Also offered as AASI 239.) First semester. Three credits.

Geographical perspective on issues facing Asian American communities: immigration, community formation, economic structure, race relations, and political participation. The changing dynamics of American ethnicity and study of the ethnonurb. Diversity among Asian Americans, and comparison with other ethnic groups.

240C. Cartographic Techniques
Second semester. Four credits. One 2-hour lecture and two 2-hour laboratory periods. Open to sophomores or higher.

A laboratory-oriented introduction to computer-based map design and compilation. Concepts of scale, symbolization, map balance, and layout are emphasized for both general and thematic mapping.
245Q. Geographic Data Analysis
Second semester. Three credits. Three class periods and one 2-hour laboratory. Recommended preparation: 100-level STAT; MATH 101 or equivalent.
An introduction to the use of quantitative methods in conducting research, with particular emphasis on the processing and analysis of geographic data.

245V. Introduction to Computer Assisted Cartography (Q,C)
Second semester. Four credits. Three class periods and one 2-hour Laboratory. Recommended preparation: GEOG 242 or equivalent; MATH 101 or equivalent.
Introduction to numerical cartography and a review of standard computer-assisted mapping programs. Emphasis is given to data compilation for machine presentation of cartographic information. Exercises will introduce students to a variety of input and output display media.

246C. Introduction to Geographic Information Systems
The study of the fundamental principles of geographic information systems (GIS). Topics include history of the field, components of a GIS, the nature and characteristics of spatial data, methods of data capture and sources of data, database models, review of typical GIS operations and applications. Laboratory exercises provide experience with common computer-based systems.

248C. Applications of Geographic Information Systems
Second semester. Four credits. One 2-hour lecture and two 2-hour laboratory periods. Prerequisite: GEOG 242. Not open for credit to students who have passed GEOG 247.
Applications of geographic information systems. Particular attention to land use planning and resource management.

249. Selected Topics in Geographic Information Systems
Either semester. Two credits. May be repeated once for credit with change in content. Recommended preparation: GEOG 242Q.
Selected problems in geospatial decisionmaking and the most commonly used GIS functions, databases, and analyses for decision support.

252. The American Landscape
Second semester, alternate years. Three credits.
The changing attitudes toward the American environment from pre-Columbian times to the twentieth century, and the consequences of those attitudes for the development of contemporary landscapes in the United States.

252W. The American Landscape
Prerequisite: ENGL 105 or 110 or 111 or 250.

253. Geography of Russia and Eastern Europe
First semester, alternate years. Three credits.
Interactive study of geographic patterns in Russia, Eastern Europe and Central Asia including analyses of climate and resources; population, culture, and urbanization; economic development; and political organization in an historical and contemporary framework.

253W. Geography of Russia and Eastern Europe
Prerequisite: ENGL 105 or 110 or 111 or 250.

254. Contemporary Europe: A Geography
Either semester. Three credits.
An introduction to the Europe (including the European republics of the former U.S.S.R.). Emphasis on the economic, political, and social forces both maintaining national identities and shaping a united Europe.

255. Geography of Latin America
Second semester. Three credits.
An integrative study of the physical, historical, social, political and economic geography of Latin America. Particular emphasis on patterns, processes and problems of spatial economic change in the region.

255W. Geography of Latin America
Prerequisite: ENGL 105 or 110 or 111 or 250.

258. Geography of Africa
Second semester. Three credits.
Problems of economic, political, social and spatial integration in Africa. Focus on past and contemporary patterns of change (including associated conflicts) examined within the context of the broader global economy.

274. Urban and Regional Planning
Either semester. Three credits. Recommended preparation: GEOG 200 or instructor consent. Open only with consent of instructor.
Urban and regional planning, with emphasis on (1) duties of local planners, especially land use planning, and (2) the political context for planners’ work. Legal and political issues in communities and organizations.

280W. Geographical Analysis of Urban Social Issues
Second semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: GEOG 210 or 233.
Analysis of socioeconomic patterns and issues within urban areas, with emphasis on applied geographical research. Policy implications are stressed.

282V. Computer Applications in Spatial Analysis (Q,C)
First semester, alternate years. Three credits. Recommended preparation: GEOG 242 or equivalent; MATH 101 or equivalent.
An advanced seminar in the design of computer programs for solving problems in spatial analysis. Students receive a thorough knowledge of Fortran and related graphic subroutine libraries necessary to implement individual projects.

284W. Advanced Economic Geography
Second semester. Three credits. Prerequisite: GEOG 200 or instructor consent; ENGL 105 or 110 or 111 or 250.
Problems involved in analyzing spatial variations of selected economic variables. Emphasis on location theory with view toward integrating geographic viewpoint and economic concepts.

285W. Advanced Physical Geography
Second semester, alternate years. Three credits. Prerequisite: GEOG 205 or instructor consent; ENGL 105 or 110 or 111 or 250.
Problems involving the application of physical processes in our changing environment.

286W. Environmental Evaluation and Assessment
First semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: GEOG 205 or 236.

287W. Environmental Restoration
First semester. Three credits. Prerequisite: GEOG 205 or GEOL 102 or BIOL 108 or instructor consent; ENGL 105 or 110 or 111 or 250.
Restoration of natural environments including rivers, wetlands, coastal areas, grasslands and forests. Theoretical discussions of restoration ecology, management and engineering concerns. History of environmental restoration; relevant policy debates; specific case studies of river, wetland, coastal, grassland, and forest restoration.

288W. Regional Development and Policy
First semester. Three credits. Prerequisite: GEOG 200 or instructor consent; ENGL 105 or 110 or 111 or 250.
A study of theory and practice in regional development and planning. Emphasis on evaluation of regional problems and public policies designed to resolve them, with a primary focus on the United States.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. Prerequisite: Consent of instructor. Corequisite: GEOG 295.
Description, analysis, and evaluation of the fieldwork portion (GEOG 295) of the internship. Written reports are required.

295. Internship in Geography: Field Study
Either semester. Credits, not to exceed three, by arrangement. Prerequisite: Consent of instructor. Corequisite: GEOG 294.
Description, analysis, and evaluation of the fieldwork portion (GEOG 295) of the internship. Written reports are required.

296. Senior Thesis
Either semester. Three credits. Hours by arrangement. Prerequisite: One advanced seminar in geography and/or 3 credits of independent study in geography; One 8-hour work day per week (or its equivalent) for the host agency during the course of the semester will be necessary for 3 academic credits.

296W. Senior Thesis
Prerequisite: One advanced seminar in geography and/or 3 credits of independent study in geography; One 8-hour work day per week (or its equivalent) for the host agency during the course of the semester will be necessary for 3 academic credits.

297. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298. Special Topics
Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.

299. Independent Study
Either or both semesters. Credits, not to exceed 6, and hours by arrangement. May be repeated for credit.
Geology and Geophysics (GEOL)

Head of Department:
Associate Professor Timothy Byrne
Department Office: Beach Hall
For major requirements, see the College of Liberal Arts and Sciences section of this Catalog.

Geology

101. Introductory Environmental Geology
Either semester. Three credits. Not open for credit to students who have passed GEOL 102.
Described for the nonscience major. Applied geologic principles and processes. Environmental hazards, mineral resources and water problems affecting land use.

102. Introductory Geology
Either semester. Four credits. Three class periods and one 3-hour laboratory period.
Description and analysis of the physical, chemical and biological processes that continually modify the shape of the earth's surface and the structure and composition of its interior. Methods of interpreting earth history from evidence now preserved in rocks. Field trips are held during several of the regular laboratory periods.

111. Age of the Dinosaurs
Either semester. Three credits. Thorson
A reconstruction of the Mesozoic world of the dinosaurs as interpreted from geological and paleontological evidence. Course includes fundamental concepts of stratigraphy, historical geology, paleoecology, and paleontology.

205. Current Issues in Environmental Science
(Also offered as EEB 205.) Second semester, alternate years. Three credits. Open to honors students. Open to non-honors students only with consent of instructor. Recommended preparation: 8 credits of college level science. Simon, Thorson
Readings and discussions of current issues in environmental science, emphasizing linkages between earth, oceans, atmosphere, and biosphere. Topics include: climate change; watershed changes; alternative energy; population growth; endangered biodiversity; genetically-engineered organisms; deforestation/restoration; risk assessment; tradeoffs; problem-solving; alternative futures.

212. Field Geology
Second semester. Six credits. Four weeks intensive study following final examination period. Prerequisite: GEOL 102. Gray, Philpotts
Field methods for geological and environmental geoscience studies, including electronic surveying techniques, aerial photograph interpretation, geological mapping, description and measurement of sedimentary sections, techniques of underground mapping, and geophysical surveying.

213. Spring Field Trip
Second semester. Variable credits. Prerequisite: GEOL 250, 251, 252, and 253, one of which may be taken concurrently.
Spring field trip during spring break, and supporting research. First 7 weeks: background readings from primary literature and secondary literature. Seven weeks following trip: supervised laboratory research using field samples. One or more short research papers and presentation to the department.

214Z. Igneous Petrology (Q,W,C)
Second semester, alternate years. Four credits. Three class periods and one 3-hour laboratory. Prerequisite: GEOL 253; ENGL 105 or 110 or 111 or 250.
Recommended preparation: MATH 114 or 116. Philpotts
Introduction to rocks and the physical and chemical principles governing their formation. Fluid mechanics of magmas, heat transfer, thermodynamics, phase equilibria, isotope geochemistry, and the relation of magmatism to plate tectonics. Optical microscopy, x-ray fluorescence, and electron microprobe analysis. Preparing a paper suitable for publication in a scientific journal.

215V. Metamorphic Petrology (Q,C)
Second semester, alternate years. Three credits. Two class periods and one 3-hour laboratory. Prerequisite: GEOL 253. Recommended preparation: MATH 114 or 116. Joesten
Interpretation of mineralogical, chemical and textural features of metamorphic rocks in terms of the physical conditions and dynamic processes operating in the Earth’s crust. Thermodynamic description of phase equilibria in fluid-rock systems. Kinetics, mass- and energy-transport in metamorphic processes. Petrographic, and X-ray analytical techniques.

217. Advanced Structural Geology
Second semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 252. Crespi
Mechanics of rock deformation. Material behavior of rocks and their geometry during orogenesis, with applications of finite strain analysis, and advanced geometric techniques. One or more weekend field trips may be required.

219. Invertebrate Paleontology
First semester, alternating years. Four credits. Two class periods and two 2-hour laboratory periods. Prerequisite: GEOL 250. The systematics, anatomy, evolutionary patterns and ecology of the major groups of invertebrate fossils.

220. Principles of Geomorphology
First semester. Three credits. Two 1-hour class periods and one 3-hour laboratory period (occasionally used for field trips). Prerequisite: GEOL 251. Thorson
Interpretation of landscape genesis with an emphasis on causal processes and paleoenvironmental implications.

223. Glacial Processes and Materials
First semester. Three credits. One 2-hour class period and one 3-hour laboratory (for lab exercises and field trips). Prerequisite: GEOL 251, Thorson
Reconstruction of former glaciers and the interactive processes leading to the character and distribution of unconsolidated surface materials in glaciated regions. Techniques for interpreting subsurface unconsolidated materials.

227. Polarized Light Microscopy
First semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 253. Gray

228. Applied Geophysics for Geologists and Engineers
First semester. Three credits. One 3-hour lecture period during which geophysical field demonstrations may be performed. Prerequisite: GEOL 101 or GEOL 102 or consent of instructor. Liu
Introductory survey of surface and borehole geophysical methods and their application to hydrogeologic, environmental monitoring, and geotechnical engineering studies. Laboratory involve geophysical field measurement, data reduction and geologic interpretation.

229. Engineering and Environmental Geology
Second semester. Three credits. Recommended preparation: GEOL 101 or 102. Liu
Application of geological principles to engineering and environmental problems. Topics include site investigation, geologic hazards, slope processes, earthquakes, subsidence, and the engineering properties of geologic materials. Course intended for both geology and engineering majors.

234C. Introduction to Ground-Water Hydrology
First semester. Four credits. Three class periods and one 2-hour laboratory period which occasional field trips will be substituted. Prerequisite: MATH 114 or 116 and GEOL 102, or consent of instructor. Robbins
Basic hydrologic principles with emphasis on hydrologic and geologic relationships, use of quantitative techniques.

235. Chemical Hydrogeology
Second semester. Four credits. Three hours lecture and three hours laboratory. Prerequisite: GEOL 234 and CHEM 127-128. Gray, Robbins
Chemical processes controlling the composition of un polluted and polluted natural waters. Field and laboratory analytical techniques. Equilibria, reaction and transport models of the chemical interactions groundwater and the media through which it travels. Applications of geochemical processes and principles understanding to the mitigation of environmental problems.

240. Sedimentation and Stratigraphy
First semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 251.
Composition, deposition and diagenesis of marine and non-marine sediments; stratigraphic methods; dynamics of sediment incorporation into the stratigraphic record. An examination of recent sedimentary sequences as a key to understanding ancient sedimentary environments. One or more weekend field trips may be required.

250. Earth History and Global Change
Second semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 102. Required of all Geology majors.
Reconstruction of earth history from geological data. Processes and events responsible for the stratigraphic record, and techniques used to decipher it. An integrated survey of earth history. One or more weekend field trips may be required.

251. Earth Surface Processes
Both semesters. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 102. Required of all Geology majors.
Processes responsible for the formation of the unconsolidated materials, landforms, and soils which constitute the Earth’s surface. Introduction to surface-water and groundwater hydrology, geological hazards and the effects of climatic change. One or more weekend field trips may be required.

252. Earth Structure
First semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: GEOL 102. Required of all Geology majors.
Structure and composition of the earth, including a survey of plate tectonics and crustal evolution. Gravitational, thermal and tectonic processes associated with the earth’s surface and interior. One or more weekend field trips may be required.
263. Earth Materials
First semester. Four credits. Two class periods and two 3-hour laboratory periods. Prerequisite: GEOL 102. Recommended preparation: CHEM 127-128. Required of all Geology majors.
Principles of symmetry and crystal chemistry and the identification of minerals by hand sample, petrographic and x-ray methods. Description of the mineralogy and texture of igneous, sedimentary and metamorphic rocks, and the application of contemporary petrologic models to the interpretation of the geologic environments they record. One or more weekend field trips may be required.

277. Plate Tectonics and Geologic Processes
(Formerly offered as GEOL 251.) Second semester. Three credits. Prerequisites: GEOL 250 and 252, which may be taken concurrently. Not open for credit to students who have passed GEOL 261.
Understanding the structure and composition of the Earth's lithospheric plates using geological and geophysical techniques and analyses of magnetic anomalies, ocean floor sediments and the geologic history of the continents. Emphasis on the interaction of geologic and plate processes, especially along plate boundaries.

292. Internship in Geology and Geophysics - Field Study
Either semester. One to three credits. May not be repeated. Internship contract must be formulated before internship work begins. Students with summer internships must preregister for GEOL 293 for the fall semester. Prerequisite or corequisite: GEOL 250, 251, 252, and 253. Must be taken concurrently with GEOL 294; no credit will be given for one course without the other. Credits earned in GEOL 293 cannot be included in the 24 or 36 credits of 200-level Geology and Geophysics courses needed to meet the requirements of the B.A. or B.S. degree, respectively. Students taking this course will be assigned a final grade of S (satisfactory) or U (unsatisfactory).
An internship program under the direction of Geology and Geophysics faculty. Students will be placed with government agencies or businesses where academic training will be applied in a program of activities to be planned and agreed upon in advance by the job site supervisor, the faculty coordinator, and the intern. One credit may be earned for each 42 hours of pre-approved activities up to a maximum of three credits.

294. Internship in Geology and Geophysics - Research Paper
Either semester. One credit. May not be repeated. Students with summer internship must preregister for GEOL 294 for the fall semester. Prerequisite or corequisite: GEOL 250, 251, 252, and 253. Must be taken concurrently with GEOL 294; no credit will be given for one course without the other.
Preparation of written report and oral presentation to Department summarizing internship experience and the evaluation of the applicability of academic experience to job situations and the impact of the internship experience on academic and career plans.

295. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

296. Undergraduate Research in Geology and Geophysics
Either semester. Three credits. Hours by arrangement. Open only with consent of instructor.
Independent research for the advanced undergraduate student interested in investigating a special problem involving field and/or laboratory observations in geology and geophysics. The student is required to give an oral presentation in a departmental seminar at the end of the semester.

297W. Undergraduate Research Thesis in Geology and Geophysics
Either semester. Three credits. Hours by arrangement. Prerequisite: GEOL 296; ENGL 105 or 110 or 111 or 250. Open only with consent of instructor.
Writing of a formal thesis based on independent research conducted by the student.

298. Special Topics
Either semester. Credits and hours by arrangement. May be repeated for credit. Open only with consent of instructor.
Investigation of special topics related to, but not ordinarily covered in the undergraduate offerings; emphasis on laboratory projects.

299. Independent Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Open only with consent of instructor.

Geophysics

274Q. Physics of the Earth's Interior
First semester. Three credits. Prerequisite: PHYS 123 or 132 or 142 or 152, which may be taken concurrently; MATH 113 or 115 or 120, which may be taken concurrently, not open to students who have taken GEOL 264Q. Cormier
The composition, structure, and dynamics of the Earth's core, mantle, and crust inferred from observations of seismology, geomagnetism, and heat flow.

276Q. Fundamentals of Planetary Science
Second semester. Three credits. Prerequisite: PHYS 123 or 132 or 142 or 152, which may be taken concurrently; MATH 114 or 116 or 121, which may be taken concurrently, not open to students who have taken GEOL 266Q. Cormier
Evolution of the solar system, celestial mechanics, tidal friction, internal composition of planets, black-body radiation, planetary atmospheres.

277Z. Exploration Seismology (Q, W, C)
First semester. Three credits. Two class periods and one 3-hour laboratory period. Prerequisite: PHYS 123 or 132 or 142 or 152, which may be taken concurrently; MATH 113 or 115 or 120, which may be taken concurrently, not open to students who have taken GEOL 267Q. Liu
Principles of seismic methods for imaging the interior of the earth, with applications to resource exploration and environmental problems.

278Z. Applied and Environmental Geophysics (Q, W, C)
Second semester. Three credits. Two class periods and one 3-hour laboratory period. PHYS 123 or 132 or 142 or 152, which may be taken concurrently; MATH 114 or 116 or 121, which may be taken concurrently; ENGL 105 or 110 or 111 or 250; not open to students who have passed GEOL 268Q. Liu
Principles of imaging the Earth's interior using observations of electric, magnetic, and gravity fields, with applications to environmental problems.

111 through 114. Special Intensive Course
First and second semesters. Eight credits per semester. Two hours a day, four days a week, plus a 2-hour laboratory practice. Open only with consent of instructor. Not open for credit to students who have passed GERM 131 through 134.
Intensive coverage of two years in two semesters. German 111-112 (fall) covers same materials as 131-132, Elementary German; GERM 113-114 (spring) covers same material as GERM 133-134, Intermediate German.

131-132. Elementary German I and II
Both semesters. Four credits each semester. Four class periods, and one 1-hour laboratory practice. Not open for credit to students who have had three or more years of German in high school. Students who wish to continue in German but feel ill prepared should contact the head of the Modern and Classical Languages Department. Not open for credit to students who have passed GERM 111-112.
Fundamentals of German. Presentation of dialogues, conversation, vocabulary building, grammar and culture. Emphasis on speaking, oral comprehension, reading of simple texts and writing, to satisfy basic survival needs within a cultural setting.

133-134. Intermediate German I and II
Both semesters. Four credits each semester. Four class periods and one 1-hour laboratory practice. Prerequisite: GERM 132 or two years of high school German. Not open for credit to students who have passed GERM 113-114.
Review and extension of grammar, vocabulary expansion, graded composition, intensive and extensive reading, and intensive oral practice to further develop communicative abilities within a cultural setting.

145-146. German Readings in the Sciences and Humanities
Both semesters. Three credits each semester. Not open for credit to students who have passed GERM 131-132 or equivalent. May not be used to meet the undergraduate language requirement.
Basic grammar and intensive practice in reading expository prose in the natural sciences, social sciences, and humanities. Intended for students desiring to learn German as a tool for research. Will satisfy ACS and Ph.D. reading requirements.

153. Active Language Skills I
First semester. Two credits. Two class periods. Corequisite or prerequisite: GERM 133. Practice in audio-lingual skills.
Emphasis on everyday vocabulary. Recommended for students intending to travel or study abroad.

154. Active Language Skills II
Second semester. Two credits. Two class periods. Corequisite or prerequisite: GERM 134. Additional practice in developing communicative abilities in a German-speaking country. Recommended for students intending to travel or study abroad.

169. Contemporary Germany: Society, Culture, and Everyday Life
Either semester. Three credits. Finger
This course familiarizes students with contemporary German society and the cultural and historical aspects that shape everyday life in Germany.

German (GERM)
Head of Department: Professor David K. Herzberger
Department Office: Room 228, J.H. Arjona Building
Consult the Modern and Classical Languages Department listing in this Catalog for requirements for Majors in German.
in the 21st century. Students will explore a range of topics, including reunification, minorities, education and youth, the arts, and gender.

171. The German Film
Either semester. Three credits. Readings and lectures in English. May not be used to meet the undergraduate foreign language requirement.
Weekly showings of German films from the twenties to the present. Introduction to film history, analysis and interpretation of films, outside readings, term papers.

190. German Folk Songs
Either semester. One credit. One 2-hour class period. May not be used to meet the undergraduate language requirement. May be repeated once for credit.
German folk songs and Christmas carols from the 15th to the 20th Century. Emphasis on correct pronunciation. Occasional performances on and off campus.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally to be granted prior to the student’s departure. Special topics taken in a foreign study program.

200. Intensive Language Practice
Second semester. Three credits. Hours by arrangement. Prerequisite: GERM 133 or equivalent and consent of instructor.
Two or three weeks of concentrated study in Europe. Exclusive use of the language, with three to four daily contact hours. Practice in all active and passive language skills, combined with periodic review sessions during the rest of the semester.

201-202. Composition
Both semesters. Three credits each semester. Prerequisite: GERM 134 or three years of German in high school. May only be used for transfer credit or for study abroad. Not open for credit to students who have passed GERM 233-234.
Intensive grammar review and extensive practice in writing.

204-205. Conversation
Both semesters. Three credits each semester. Prerequisite: GERM 134 or three years of German in high school. May only be used for transfer credit or for study abroad. Not open for credit to students who have passed GERM 233-234.
Intensive oral practice based primarily on cultural readings.

220. German Recitation in Applied Mechanics
First semester. One credit. One class period. Prerequisite or corequisite: GERM 133 or equivalent.
Technical German in engineering through the basic concepts and problem solving techniques used in applied mechanics.

221. Introduction to the Sciences in German
Second semester. One credit. One class period. Prerequisite or corequisite: GERM 134, CHEM 128Q, and PHYS 152Q or equivalent.
A series of lectures and discussion periods about basic concepts in the physical sciences presented in German. Topics will be primarily from the various engineering disciplines, chemistry, physics, and mathematics.

222. Fields of Technology
First semester. One credit. One class period. Prerequisite: GERM 220 and GERM 221.
A series of lectures and discussion periods on special topics in science and engineering. Open only with consent of instructor.

231-232. German for Professional Use I and II
Both semesters. Three credits each semester. Prerequisite: GERM 134 or equivalent. Recommended preparation: GERM 233-234.
Development of oral and written skills using a content-based methodology and drawing on authentic documents in a variety of formats that convey the language and culture of professional environments in the German-speaking countries. Preparation for the Goethe Institute’s test of German for Professional Purposes (Deutsch fdr den Beruf).

233-234. Building Language Skills Through Culture I and II
Both semesters. Three credits each semester. Prerequisite: GERM 134 or equivalent. Not open for credit to students who have passed GERM 201-202 or GERM 204-205.
Development of oral and written skills using a content-based methodology and drawing on texts that deal with issues in contemporary culture of German-speaking countries. Emphasis on acquisition of a sophisticated understanding of cultural differences while building vocabulary, improving accuracy, and increasing facility in self-expression and communication.

240W. German Literature in Translation
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. May not be used to satisfy the undergraduate foreign language requirement or the major requirement in German.
Reading and analysis of significant works of German literature from one or more periods.

245. German Grammar and Etymology
Either semester. Three credits. Corequisite: GERM 233 or equivalent or instructor consent.
German grammar and etymology for advanced students. A conceptual foundation for communicative language skills and comparison with English.

246. The Finishing Touch: A Capstone in German Studies
Either semester. Three credits. Prerequisite: German 234 plus a minimum of 6 additional 200-level credits in German.
A course in which advanced students assess and polish their German language skills, consolidate their learning in German Studies, and demonstrate that learning in a final project.

251. German Culture and Civilization
Either semester. Three credits. Conducted in English. Not open for credit to students who have passed GERM 250.
An interdisciplinary course on the German-speaking countries, analyzing cultural life and past and present development. Period or thematic emphasis may vary. Discussion of selected non-fictional and fictional readings, films, slides and recordings.

252. Studies in Early German Literature
Either semester. Three credits. Prerequisite or corequisite: GERM 233 or instructor consent.
Study of a cohesive group of texts that mark the periods of the Middle Ages, Humanism, Reformation, and Baroque. Emphasis may vary. Attention will be given to the relevant socio-historical context and, when possible, to the visual and performing arts.

253. Studies in German Literature Around 1800
Either semester. Three credits. Prerequisite or corequisite: GERM 233 or instructor consent.
Study of a cohesive group of texts that mark the periods of Enlightenment, Storm and Stress, Classicism and Early Romanticism. Emphasis may vary. Attention will be given to the relevant socio-historical context and to the visual and performing arts.

254. Studies in 18th Century German Literature
Either semester. Three credits. Prerequisite or corequisite: GERM 233 or instructor consent.
Study of a cohesive group of texts that mark the periods of Late Romanticism, Vorrmärz, Realism and Naturalism. Emphasis may vary. Attention will be given to the relevant socio-historical context and to the visual and performing arts.

255. Studies in 20th Century German Literature
Either semester. Three credits. Prerequisite or corequisite: GERM 233 or instructor consent.
Study of a cohesive group of texts that mark the period. Attention will be given to the relevant socio-historical context and to the visual and performing arts.

260. Women’s Studies in German
Either semester. Three credits. Prerequisite or corequisite: GERM 234 or instructor consent.
Women in the literature of the German-speaking countries. Women’s writings. The development of German feminism. Contemporary gender issues in the German-speaking countries.

271. Principles of Translation I
First semester. Three credits. Prerequisite: GERM 234 or equivalent. Open only to juniors and seniors, with consent of instructor. Wright Theory and practice of translating and interpreting written and oral materials from German into English.

280W. Introduction to German Linguistics
First semester. Three credits. Corequisite: GERM 132 or LING 202 or instructor consent; ENGL 105 or 110 or 111 or 250, McCormick A study of the relationship among modern and historical Germanic languages. Lectures, readings, and class discussions in English.

281. German Film and Culture
Either semester. Three credits. Prerequisite or corequisite: GERM 233.
Critical analysis of artistic issues in writing screenplays and making movies. Dynamic interplay between German film, the other arts, and our socioeconomic context. Taught in German.

First semester. Three credits. Taught in English.
Cultural aspects of international business. Lectures by speakers from the German-speaking countries and representatives of institutions and companies related to those countries. Discussion and analysis of the lectures.

284. German Cinema in Cross-Cultural Perspective
Either semester. Three credits.
Cross-cultural comparison of film genres using examples from German film history and other cinematic traditions.

285. Topics in German Culture
Either semester. Three credits. Prerequisite or corequisite: GERM 233 or instructor consent. With a change in topic, this course may be repeated for credit.
An analysis of the cultural trends of a selected period or theme in a German-speaking country, taking into account the historical, political, and socioeconomic background, aspects of daily life, philosophical trends, major literary works and other artistic achievements in art, music, and architecture. Specialists from other departments will be invited as guest lecturers.

290. German Language Practicum
Either semester or summer. Credits (not to exceed six) and hours by arrangement. Prerequisite: Three years of college-level German or the equivalent. Open only to juniors and seniors with consent of instructor.
Placement of students as trainees in business, industry and social or government agencies where foreign language skills can be put to use.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally to be granted prior to the student’s departure. May count toward the major with consent of advisor.

Special topics taken in a foreign study program.

295. German Play Production
Second semester. Three credits. Hours by arrangement. Prerequisite: GERM 111 or 131 and consent of instructor. May not be used to meet the undergraduate foreign language requirement. With a change in topic, this course may be repeated for credit.

Extensive and intensive study, discussion and interpretation of a German drama, followed by casting, rehearsals and eventual performance. Students are given both on-stage and off-stage assignments and responsibilities. Term paper.

296. German Seminar
Either semester. Credits and hours by arrangement. Open only to juniors and seniors with consent of instructor. May be repeated for credit.

Intensive investigation of selected problems in German literature and/or German studies.

297. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298. Special Topics
Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit. Prerequisites and recommended preparation vary.

299. Independent Study
Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. With a change in content, may be repeated for credit.

German Study Abroad. An academic year or spring semester at the University of Salzburg, Austria, operated jointly with other New England state universities, allows students to earn up to 34 credits in all disciplines. The University of Connecticut sponsors a variety of programs at any of nine universities in the state of Baden-Wuerttemberg. Students also have the possibility of language study at a Goethe Institute, and a combination of study and work through programs in Mannheim and Regensburg.

Health Sciences (HESC)

Head of Department: Professor Thomas Miller
Department Office: Room 102, Koons Hall

210. Anatomy and Physiology for the Radiologic Technologist I
Either Semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

A systems approach to the anatomy and physiology of the human body. Anatomy of the thoracic and abdominal cavities, cytology, integumentary and skeletal systems. Appendicular and axial skeletons, gastrointestinal and urinary systems.

211. Anatomy and Physiology for the Radiologic Technologist II
Either Semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

A continuation of Anatomy and Physiology for the Radiologic Technologist I. Respiratory, lymphatic, circulatory, reproductive, endocrine, nervous and muscular systems.

220. Fundamentals of Radiologic Physics
Either Semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

Principles of physics, fundamental concepts of the structure of matter, production and use of electrostatics, electromagnetism, electrodynamics and principles of radiation. Structure of the x-ray tube and linear accelerator is introduced.

221. Medical Radiation Physics and Quality Assurance I
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

Medical physics related to diagnostic imaging and equipment. Radiation and radiation units, measurement, exposure limits and protection. X-ray production, intensity, filtration, interactions and focal spots and image quality. Processing, sensitometry and mammography.

222. Medical Radiation Physics and Quality Assurance II
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

A continuation of Medical Radiation Physics and Quality Assurance I. Fluoroscopy, angiography, digital fluoroscopy, computers and computer applications and digital radiography. CT, MRI and ultrasound.

223. Radiation Biology and Protection
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.

Principles of radiation protection and safety. Concepts and principles of radiation biology including requirements for regulatory, accreditation and health care organizations. Theories and principles of tolerance dose, time-dose relationships, fractionation schemes and the relationship to the clinical practice.

224. Radiation Therapy Physics
Summer Session. Three credits. Hours by arrangement. Open only to students in Allied Health.

Introduction to radiation oncology imaging equipment and related devices.

225. Treatment Planning I
Summer Session. Two credits. Hours by arrangement. Open only to students in Allied Health.

Dosage and treatment time calculations for linear accelerators, superficial/orthovoltage and Co-60 treatment units. Application of isodose chart, central axis depth dose curves and beam profiles.

226. Treatment Planning II
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

A continuation of Treatment Planning I. Treatment planning optimizations and the application of beam modifiers. Contouring and the use of single and multiple beam therapies.

227. Techniques and Applications of Radioactive Materials
Summer Session. Three credits. Hours by arrangement. Open only to students in Allied Health.

Elements and their basic components, different categories of atoms and factors involved in nuclear stability. Various types of radioactivity and methods for production of artificial radioactive sources. Dose determination and radiation detection for brachytherapy sources.

228. Computer Application in Radiation Therapy
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.

Theory and technology of digital computers, digital imaging modalities and their application in radiation therapy.

230. Principles of Radiographic Imaging I
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

Introduction to fundamentals of exposure factor selection and imaging parameters. Radiographic imaging, radiographic film, cassettes/screens and imaging systems.

231. Principles of Radiographic Imaging II
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.


232. Principles of Radiographic Imaging III
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

A continuation of Principles of Radiographic Imaging I and II. Radiographic grid, automatic exposure control, collimation and filtration, film sensitometry, the automatic processor and tomography.

233. Medical Imaging and Processing
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.

Theory and processes governing and influencing the production and recording of radiographic images. Focus on radiation oncology imaging equipment and related devices.

234. Radiation Therapy Equipment and Operation
Summer Session. Two credits. Hours by arrangement. Open only to students in Allied Health.

Radiation and radiation units, measurement, intensity, filtration, interactions and focal spots and image quality. Processing, sensitometry and mammography.

240. Patient Care for Radiologic Technologists I
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.

Basic patient care procedures, including caring for the physical and emotional needs of the patient and family. Routine patient care procedures, communications, safety, legal, ethical, and professional issues.

241. Patient Care for Radiologic Technologists II
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.

A continuation of Patient Care for Radiologic Technologists I. Emergency patient care procedures, surgical asepsis, pharmacology and radiographic contrast media.

242. Radiation Pathology
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.

The study of disease processes and their radiographic appearance. Discussion of etiology, symptoms, complications, prognosis, treatments and diagnostic imaging methods. Pathologic conditions and their effects on the anatomy and function of body will be demonstrated with use of radiographs.

243. Foundations of Radiation Therapy
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.


244. Oncologic Pathology
Summer Session. Two credits. Hours by arrangement. Open only to students in Allied Health.

General principles of pathology. Emphasis on fac-
tors relating to and providing basis for tumor pathology and normal tissue repair.

245. Clinical Radiation Oncology I
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
Epidemiology, etiology, anatomy, patterns of spread, clinical presentation, detection and diagnosis, histopathology and disease classification related to various disease sites. Role of surgery, radiation therapy, chemotherapy, immunotherapy and the multimodality treatment approach.

246. Clinical Radiation Oncology II
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiation Oncology I.

250. Radiographic Procedures I
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.
Preparation to accurately position patients for diagnostic radiologic procedures to include preparation of equipment and contrast media. Abdominal, chest, upper GI, large intestine, distal extremities.

251. Radiographic Procedures II
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Radiographic Procedures I. Urinary tract, upper GI, small intestine, spine, shoulder girdle, pelvis and proximal extremities.

252. Radiographic Procedures III
Summer Session. Four credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Radiographic Procedures I and II. Lower GI track, spine, spinal cord and myelography, skull and nasal sinuses. Lymphatic and vascular system imaging.

253. Radiographic Procedures IV
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Radiographic Procedures I, II and III. TMJ and selected bones and foramen of the skull, non-routine extremity views, sacrum, coccyx, thorax, venipuncture, and imaging of the female reproductive system.

254. Principles and Practice of Radiation Therapy I
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
Introduction to radiation therapy equipment and its use in clinical practice. Professional issues and the management of patients with cancer will be addressed.

255. Principles and Practice of Radiation Therapy II
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Principles and Practice of Radiation Therapy I.

256. Principles and Practice of Radiation Therapy III
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Principles and Practice of Radiation Therapy I and II. Current treatment modalities for cancer in specific sites including its pattern of spread and radiation oncology treatment regimes. Topographical and radiological anatomy.

257. Principles and Practice of Radiation Therapy IV
Either semester. Three credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Principles and Practice of Radiation Therapy III.

258. Quality Management
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.
Theory and application of the quality management program as related to professional standards of care and accreditation, certification, licensure and service delivery.

260. Clinical Radiography I
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.
Supervised clinical experience in general radiography, fluoroscopy, cystoscopy, emergency room and portable radiography.

261. Clinical Radiography II
Either semester. Two credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiography I with exposure in different radiology departments.

262. Clinical Radiography III
Summer Session. Four credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiography I and II with addition of specialized rotations in pediatrics, outpatient fluoroscopy, portable examinations in the operating room and trauma radiography evenings in the emergency room.

263. Clinical Radiography IV
Either semester. Five credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiography I, II and III with rotations in different radiology departments with experience in general fluoroscopy, emergency room, operating room, mammography and interventional radiology.

264. Clinical Radiography V
Either semester. Five credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiography I - IV with addition of rotations in MRI, long-term care and private radiology office.

265. Clinical Radiography VI
Summer Session. Six credits. Hours by arrangement. Open only to students in Allied Health.
A continuation of Clinical Radiography I - V with rotations in fluoroscopy, emergency room, operating room, CT, MRI, mammography, US, cardiac, nuclear medicine, long-term care, private radiology and the orthopedic office.

270. Radiation Therapy Clinical Internship I
Either semester. One credit. Hours by arrangement. Open only to students in Allied Health.
Supervised clinical experience with therapeutic applications. Experience in a variety of technical methods and procedures in the management of patients undergoing radiation therapy.

271. Radiation Therapy Clinical Internship II
Either semester. One credit. Hours by arrangement. Open only to students in Allied Health.
Continuation of Radiation Therapy Clinical Internship I.

272. Radiation Therapy Clinical Internship III
Summer Session. Five credits. Hours by arrangement. Open only to students in Allied Health.
Continuation of Radiation Therapy Clinical Internship I and II.

273. Radiation Therapy Clinical Internship IV
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.
Continuation of Radiation Therapy Clinical Internship I - III. Includes dosimetry.

274. Radiation Therapy Clinical Internship V
Either semester. Four credits. Hours by arrangement. Open only to students in Allied Health.
Continuation of Radiation Therapy Clinical Internship IV.

275. Radiation Therapy Clinical Internship VI
Summer Session. Nine credits. Hours by arrangement. Open only to students in Allied Health.
Continuation of Radiation Therapy Clinical Internship IV and V. Under supervision, student assumes full therapist responsibilities.

280. Radiology Seminar
Summer Session. Two credits. Hours by arrangement. Open only to students in Allied Health.
Independent research paper and presentation on current topics in radiology. ARRT examination review and test preparation.

281. Seminar in Radiation Therapy
Summer session. Four credits. Hours by arrangement. Open only to students in Allied Health.
Capstone experience researching and presenting new innovations in the field of radiation therapy. Examination and evaluation of the management of neoplastic disease and promotion of critical thinking. Preparation for certification examination.

298. Special Topics
Either semester and summer session. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.
Investigation of special topics in health sciences that are related to basic core interdisciplinary areas.

299. Independent Study for Undergraduates
Either semester. Credits and hours by arrangement: not to exceed four credits. Open only with consent of instructor. May be repeated for credit.
This course is designed primarily for students who wish to extend their knowledge in some specialized subject in the field of health sciences.

Health Systems Management (HSMG)

Director: Jeffrey A. Kramer
Center Office: Room 462, School of Business

For major requirements, see the School of Business section of this Catalog.

Health Systems Management courses are open to juniors and seniors only. The School of Business requires students at the Storrs campus to participate in the Mobile Computing Initiative before registering for the courses listed below. See the School of Business Catalog section for details about how this program operates. Students not participating in the initiative may be able to register for the following classes: HSMG 280 and 283.

280. Introduction to Health Care Management
First semester. Three credits.
This course introduces basic concepts, principles, and practices associated with the health care delivery system in the United States. The course will examine how this system is organized, and discuss the major issues related to the provision of health care, from both a business and social science perspective. Emphasis will be placed on understanding the components and features of the health care delivery system in the United States as it is developed and applied through a managed care organizational framework.

281. Health Care Analysis
Second semester. Three credits. Prerequisite: HSMG 280.
This course deals with the application of economic
theory, health services research, policy development and analysis, operations research, and management science techniques for analyzing and evaluating the performance of health care services and organizations.

282. Health Care Information Technology
First semester. Three credits. Prerequisite: HSMG 281 and 290.

This course provides an introduction to information technology (IT) within the context of health care planning, managerial decision-making and strategic analysis. The course examines how health care organizations apply information technologies in decision-making and considers factors that influence investments in healthcare IT. Students will learn to define appropriate IT terms, fit IT into an appropriate marketing plan, describe the IT project lifecycle, and identify key IT issues within the major healthcare markets. Topics include business model development, branding of services, and decision support.

283. Advanced Topics in Health Care Management
Second semester. Three credits. Prerequisites: HSMG 280, 281, and 290.

This course provides health care management students with opportunities to apply tools and concepts learned throughout the program. Through real world consulting projects and hands-on projects, students develop and refine their skills in project organization and management, analysis, reporting, and presentation. Project areas include applications that integrate all business disciplines.

285. Clinical and Social Issues in Health Care
First semester. Three credits.

This course covers clinical and social issues affecting health care provider organizations, such as the health needs of special population groups, public health concerns, epidemiological issues, and health care quality. Discussion will include how health care organizations address such issues through methods including clinical studies, disease management, partnership between private and public sectors, and legislative initiatives.

290W. Internship in Health Care Management
Either or both semesters. Six credits. Hours by arrangement. Prerequisite: OPM 203 and 204, senior standing, and consent of instructor; ENGL 105 or 110 or 111 or 250.

Supervised field work in a health care organization where students work with health care professionals to expand their expertise in solving health systems problems and increase their awareness of the issues involved in the day to day operations of a health care institution. Student performance will be evaluated on the basis of an appraisal by the field supervisor and a detailed written report submitted by the student.

298. Special Topics
Either semester. Credits and hours by arrangement. Prerequisite: Announced separately for each offering. With a change in content, may be repeated for credit.

Classroom course in special topics in health systems management as announced in advance for semester.

299. Independent Study for Undergraduates
Either or both semesters. Credits by arrangement; not to exceed six in any semester. Open only with consent of instructor.

Individual study of special topics in health systems management as mutually arranged between a student and an instructor.

Hebrew (HEB)

Head of Department: Professor David K. Herzberger
Department Office: Room 228, J.H. Arjona Building
Consult the Departmental Handbook for courses being offered and further description of these courses.

149-150. Elementary Biblical Hebrew I and II
Both semesters. Four credits each semester. Four class periods. Not open for credit to students who have had three or more years of Hebrew in high school. Students who wish to continue in Hebrew but feel ill prepared should contact the head of the Modern and Classical Languages department.

An introduction to the biblical language for the student with no previous background. Grammar and drills, using simple texts, prepare the student for independent reading of Hebrew Scripture in the original.

151-152. Elementary Modern Hebrew I and II
Both semesters. Four credits each semester. Four class periods and one 1-hour laboratory practice. Not open for credit to students who have had three or more years of Hebrew in high school.


153-154. Intermediate Hebrew I and II
Both semesters. Four credits each semester. Four class periods and one 1-hour laboratory practice. Prerequisite: HEB 152 or the equivalent.


251-252. Advanced Hebrew
Both semesters. Three credits each semester. Prerequisite: HEB 154 or instructor consent.

Further grammar study. Practice in composition involving the use of everyday vocabulary and idiomatic expressions. Readings in Hebrew culture and history.

Hebrew Civilization (in English)

None of the following courses may be used to meet the foreign language requirement.

101. The Land of Israel from Biblical Times to the Present
(Also offered as JUDS 101.) Either semester. Three credits. Offered in alternate years. Miller

The political, historical and religious currents in Greco-Roman Palestine. Includes the Jewish Revolts; sectarian developments, the rise of Christianity and the Talmudic academies.

277. The Culture of East European Jewry
First semester. Three credits.

The life, folklore, literature and thought of the Jews of Poland and Russia from the sixteenth to the twentieth century. The distinctive contributions of both the Jewish little-town (shetel) and the larger urban community will be explored.

280. Health Care Information Technology
(Also offered as HSMG Studies 280.) Either semester. Three credits. Consent of the advisor.

This course provides an introduction to information technology (IT) within the context of health care planning, managerial decision-making and strategic analysis. The course examines how health care organizations apply information technologies in decision-making and considers factors that influence investments in healthcare IT. Students will learn to define appropriate IT terms, fit IT into an appropriate marketing plan, describe the IT project lifecycle, and identify key IT issues within the major healthcare markets. Topics include business model development, branding of services, and decision support.

282. Advanced Topics in Health Care Management
Second semester. Three credits. Prerequisites: HSMG 280, 281, and 290.

This course provides health care management students with opportunities to apply tools and concepts learned throughout the program. Through real world consulting projects and hands-on projects, students develop and refine their skills in project organization and management, analysis, reporting, and presentation. Project areas include applications that integrate all business disciplines.

285. Clinical and Social Issues in Health Care
First semester. Three credits.

This course covers clinical and social issues affecting health care provider organizations, such as the health needs of special population groups, public health concerns, epidemiological issues, and health care quality. Discussion will include how health care organizations address such issues through methods including clinical studies, disease management, partnership between private and public sectors, and legislative initiatives.

290W. Internship in Health Care Management
Either or both semesters. Six credits. Hours by arrangement. Prerequisite: OPM 203 and 204, senior standing, and consent of instructor; ENGL 105 or 110 or 111 or 250.

Supervised field work in a health care organization where students work with health care professionals to expand their expertise in solving health systems problems and increase their awareness of the issues involved in the day to day operations of a health care institution. Student performance will be evaluated on the basis of an appraisal by the field supervisor and a detailed written report submitted by the student.

298. Special Topics
Either semester. Credits and hours by arrangement. Prerequisite: Announced separately for each offering. With a change in content, may be repeated for credit.

Classroom course in special topics in health systems management as announced in advance for semester.

299. Independent Study for Undergraduates
Either or both semesters. Credits by arrangement; not to exceed six in any semester. Open only with consent of instructor.

Individual study of special topics in health systems management as mutually arranged between a student and an instructor.

201. Selected Books of the Hebrew Bible
(Also offered as JUDS 201.) Either semester. Three credits. Prerequisite: INTD 294 or HIST 213 or HEB 103, which may be taken concurrently or instructor consent. A knowledge of Hebrew is not required. May be repeated with change of content and consent of instructor. Miller

Focuses on a biblical book (or books) and emphasizes its literary structure and content using modern approaches as well as midrashic and medieval exegesis. Historical and archaeological material introduced where relevant.

202. Sects and Movements in Judaism
(Also offered as JUDS 202). Either semester. Three credits. Offered in alternate years. Varieties of Jewish expression and belief from Biblical times to the present. Topics include: the Dead Sea Sect, Pharisees, Sadducees, Karaites, Marranos, Hasidism and the Reform, Conservative, Orthodox and Reconstructionist movements of the modern era.

203. The Holocaust
(Also offered as JUDS 203). Either semester. Three credits.

The political, historical and religious currents in Greco-Roman Palestine. Includes the Jewish Revolts; sectarian developments, the rise of Christianity and the Talmudic academies.

277. The Culture of East European Jewry
First semester. Three credits.

The life, folklore, literature and thought of the Jews of Poland and Russia from the sixteenth to the twentieth century. The distinctive contributions of both the Jewish little-town (shetel) and the larger urban community will be explored.

279. Literature of Modern Israel
Second semester. Three credits.

The major themes and literary achievements of modern Hebrew writing. Authors to be emphasized include Feiierberg, Balbik, Brenner, Berdichevsky, Tschernichowsky, Agnon, Greenberg, and Alterman.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally before the student’s departure.

Special topics taken in a foreign study program.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally granted prior to the student’s departure. May count toward the major with consent of the advisor.

Special topics taken in a foreign study program.

295. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298. Special Topics
Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit. Prerequisites and recommended preparation vary.
299. Independent Study
Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. With a change in content, may be repeated for credit.

Study Abroad in Israel
Students may spend a semester or academic year at Hebrew University in Jerusalem, Tel Aviv, Haifa or Ben Gurion Universities. Students should take at least one semester of Hebrew at UConn before studying abroad. The University also sponsors an archaeological excavation at Sepphoris during the month of June. This is a six-credit program.

Hindi (HIND)

Head of Department: Professor David K. Herzberger
Department Office: Room 228, J.H. Arjona Building

101-102. Elementary Levels I and II
103-104. Intermediate Levels I and II
101 and 103 are offered in the first semester, and 102 and 104 in the second. Please refer to the Critical Languages course descriptions in this publication. Consult the Program Director in Arjona 128 or at Ed.Benson@UConn.edu for more information.

History (HIST)

Head of Department: Professor Altina L. Waller
Department Office: Room 121, Wood Hall

100. The Roots of the Western Experience
Either semester. Three credits.
An analysis of the traditions and changes which have shaped Western political institutions, economic systems, social structures and culture in ancient and medieval times.

101. Modern Western Traditions
Either semester. Three credits.
History of political institutions, economic systems, social structures, and cultures in the modern Western world.

106. The Roots of Traditional Asia
Either semester. Three credits. 
A survey of the early development and staying power of the traditional cultures from which the major societies of modern Asia have evolved.

108. Modern World History
Either semester. Three credits. Omara-Otunno
A survey of the historical experiences of the world's major civilizations during recent centuries with particular attention to the modernization of the traditional cultures of Asia, Latin America, and Africa.

121. Women in History
Either semester. Three credits.
The historical roots of challenges faced by contemporary women as revealed in the European and/or American experience: the political, economic, legal, religious, and family life of women.

195. Special Topics Lecture
Either semester. Credits, prerequisites, and hours as determined by the Senate Curricula and Courses Committee. May be repeated for credit with a change in topic.

198. Varieties of History
Either semester. Three credits. With a change in content may be repeated for credit.
A major topic in history through contemporary sources and historical interpretations.

200W. Senior Thesis in History
Either semester. Three credits. Hours by arrangement. Open only with consent of instructor and Department Head. Independent study authorization form required. Prerequisite: Three credits of independent study and/or an advanced seminar; ENGL 105 or 110 or 111 or 250.

201. Supervised Field Work
Either semester. Credits up to 12. No more than six credits will count toward the department's major requirements. Hours by arrangement. Open only with consent of Department Head.

203W. History and the Historian
First semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250.
Major historical theories and writings from the ancient world to the modern era. For History Honors and other qualified students.

204. Medieval Islamic Civilization to 1700
First semester. Three credits. Recommended preparation: HIST 100 or 101. Open to sophomores or higher. Azimi
The social dynamics of faith, culture, and change from the rise of Islam to the Ottoman decline and the Islamic challenge to Greek and Latin Christendom.

205. The Modern Middle East from 1700 to the Present
Second semester. Three credits. Open to sophomores or higher. Azimi
Tradition, change, modernization and development in the Middle East from the Ottoman decline and rise of successor states to the Arab-Israeli and oil crises.

206. Introduction to the History of Science
(Also offered as SCI 206.) First semester. Three credits. Open to sophomores or higher. This course may be used only once to meet the distribution requirement. Roe
Rise and development of scientific inquiry; case studies designed to illustrate problems and methods in the study of the history of science.

207W. Science and Social Issues in the Modern World
Second semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Roe
Social context of science in the United States and Europe since 1850. Genetics and eugenics; ecology and the environment; nuclear issues; gender, race, and science.

208. Gender and Sexuality in Modern Europe
(Also offered as WS 208.) Either semester. Three credits. Shafar
The construction of gender difference and ideas about sexuality in western Europe since 1789. Masculinity and femininity; sexuality, identity and the state; European power and personhood in global context.

209. History of the Family
(Also offered as HDFS 279.) Either semester. Three credits. Not open for credit to students who have passed HDFS 279.
Pre-industrial and industrial family life in Western society since the Middle Ages, with emphasis on the changes in demography, family size and structure, family economy, social expectations, sex roles, sexuality, and affectional ties.

210. History of Women and Gender in Early America
(Also offered as WS 210.) Either semester. Three credits. Not open to students who have taken HIST 202 or WS 202. Dayton
Compares the evolving gender systems of native American groups, transplanted Africans, and immigrant Europeans up to the early Nineteenth Century. Topics include women's work, marriage and divorce, witch-hunting, masculinity, and women's Revolutionary War roles. For U.S. women's history, 1790 to present, see HIST 215.

211. The Historian's Craft
Either semester. Three credits. Open only to history majors. Open to sophomores or higher.
Learning critical reading, thinking and writing skills by interpreting a variety of primary sources.

212W. Near Eastern Pre-History
(Also offered as ANTH 257W.) Second semester. Three credits. Open only for credit to students who have passed ANTH 257. Prerequisite: ENGL 105 or 110 or 111 or 250.
From the earliest hunter-gatherers to the rise of the state: the transition from food-gathering to food-producing and the development of complex societies in the Near East.

213. Ancient Near East
(Also offered as CAMS 253.) Either semester. Three credits.
The history of Near Eastern civilization from the Neolithic period to the Persian Empire. The birth of civilization in Mesopotamia and Egypt. The political, economic, social, and cultural achievements of ancient Near Eastern peoples.

214. Ancient Greece
(Also offered as CAMS 254.) Either semester. Three credits. Caner
The history of Greece from Minoan and Mycenaean times into the Hellenistic period with special emphasis on the Fifth Century and the "Golden Age" of Athens.

214W. Ancient Greece
Prerequisite: ENGL 105 or 110 or 111 or 250.

215. History of Women and Gender in the United States, 1790-Present
(Also offered as WS 215.) Either semester. Three credits. Not open for credit to students who have taken HIST 202 or WS 202 before fall 1998. Porter-Benton
Women and gender in family, work, education, politics, and religion. Impact of age, race, ethnicity, region, class, and affectional preference on women's lives. Changing definitions of womanhood and manhood.

216. Ancient Rome
(Also offered as CAMS 255.) Either semester. Three credits. Caner
From the beginning of Rome to the reign of Justinian. The growth of the Roman Republic and Empire, Roman civilization and its influence upon later history.

216W. Ancient Rome
Prerequisite: ENGL 105 or 110 or 111 or 250.

217. World of Late Antiquity
(Also offered as CAMS 243.) Either semester. Three credits. Caner
The profound social and cultural changes that redefined the cities, frontiers, and economies of the classical world and led to the Middle Ages. Developments in the eastern and western Mediterranean lands between the second and seventh centuries, including neo-Platonism, the spread of Christianity, Rabbinic Judaism, and Islam.

218. Palestine Under the Greeks and Romans
(Also offered as CAMS 256, HEB 218, and JUDS 218.) Either semester. Three credits. Recommended preparation: HIST 213 or 214 or 216 or INTD 294 or HEB 202. Miller
Hindi
The political, historical and religious currents in Greco-Roman Palestine. Includes the Jewish Revolts, sectarian developments, the rise of Christianity and the Talmudic academies.

219. Early Middle Ages
First semester. Three credits. Olson
The decline of Rome, rise of Christianity, the barbarian invasions and kingdoms, culminating in the civilizations of the Carolingian Empire, of Byzantium, and of Islam.

220. The High Middle Ages
Second semester. Three credits. Olson
The history of Europe from the tenth through the fourteenth centuries. The development and expansion of European civilization, the revival of a money economy and town life, the development of feudal monarchy, the conflict of Empire and Papacy, the Crusades.

221. Modern China
Either semester. Three credits. Wong
Survey of patterns of modern China since 1800. Topics will include reforms and revolutions, industrialization and urbanization, and family and population growth.

222. History of Pre-Colonial Africa
First semester. Three credits. Omara-Otunnu
The history of pre-colonial Africa with particular attention to the rise and fall of African kingdoms, interaction between different ethnic groups, African trade with other continents, and the impact of foreigners on African societies.

223. History of Modern Africa
Second semester. Three credits. Omara-Otunnu
The history of African perceptions of and responses to the abolition of the slave trade, Western imperialism and colonialism, and the development of nationalism and struggle for independence.

224. History of Pan-Africanism
Second semester. Three credits. Recommended preparation: At least one of the following, HIST 222, 223, 238, or 246. Omara-Otunnu
The development of ideas of Pan-Africanism, beginning with the West African Pan-Africanists in the nineteenth century; examination of the linkages between these ideas in Africa and the evolution of Pan-Africanism as a movement in the African Diaspora.

225. History of War in the Modern World
Either semester. Three credits. Recommended preparation: HIST 101. Open to sophomores or higher. Dintenfass
Selected topics analyzing the interactions of warfare, military theories and practice with social, economic and technological developments since 1815.

226. International Human Rights
Either semester. Three credits. Open to sophomores or higher. Historical and theoretical survey of the evolution of human rights since 1945.

227. Social and Cultural History of Connecticut and New England
Either semester. Three credits. Dayton, Baldwin, Brown
Race, class, gender, religion, politics, and economy in New England. Interpretations of the region’s culture from the 1600’s through the 1800’s. Introduces accessible primary sources and interpretive issues at public history sites.

228. Europe in the Nineteenth Century
First semester. Three credits. Open to sophomores or higher. Recommended preparation: HIST 101.
This course examines the Restoration, the mid-century revolutions, and the forces of nationalism, liberalism and imperialism. New social and economic movements and currents of thought are described and explored.

228W. Europe in the Nineteenth Century
Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: HIST 101.

229. Europe in the Twentieth Century
Either semester. Three credits. Open to sophomores or higher. Recommended preparation: HIST 101.
Twentieth Century Europe and its world relationships in the era of two world wars, the great depression, and the cold war.

229W. Europe in the Twentieth Century
Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: HIST 101.

231. American History to 1877: A Survey
Either semester. Three credits. Open to sophomores or higher.
Political, social, and economic development of the American people through post-Civil War Reconstruction.

231W. American History to 1877: A Survey
Prerequisite: ENGL 105 or 110 or 111 or 250.

232. American History Since 1877: A Survey
Either semester. Three credits. Open to sophomores or higher.
Political, social, and economic development of the American people from Reconstruction to the present.

232W. American History Since 1877: A Survey
Prerequisite: ENGL 105 or 110 or 111 or 250.

233. Social and Intellectual History of the United States Through the Civil War
First semester. Three credits. Prerequisite: HIST 231 or instructor consent. Brown
This course stresses the impact of political, economic, and social changes on American thought.

234. American Thought and Society Since the Late Nineteenth Century
The interaction of popular ideas and formal thought with society in the United States during a time of world-wide crises and unrest. Social Darwinism, Populism, reformism, racism, radicalism, liberalism, conservativism, and other ideologies and movements.

235. Constitutional History of the United States
The Constitution and the Supreme Court in relation to the political, economic, and intellectual history of the United States.

236. Civil War America
The social, economic and cultural forces that shaped the Civil War and its aftermath. Sectional conflict, industrialization, reform and abolitionism, race relations, and class, gender and constitutional issues from the 1830s to the 1880s.

237. American Indian History
Either semester. Three credits. Recommended preparation: HIST 231. Shoemaker
Surveys American Indian history in what is now the United States from precolumbian times up to the present. Cultural diversity among Indian peoples, the effects of European contact, tribal sovereignty, and other current issues.

238. African American History to 1865
Either semester. Three credits. Ogbar
History of African-American people to 1865, from their West African roots, to their presence in colonial America, through enslavement and emancipation. Adaptation and resistance to their conditions in North America. Contributions by black people to the development of the United States.

238W. African American History to 1865
Prerequisite: ENGL 105 or 110 or 111 or 250.

239. History of Connecticut
First semester in odd-numbered years. Three credits. Recommended preparation: HIST 231 or 232. Either 239 or 227, but not both, may be counted for credit toward the History major.
A survey of Connecticut’s history from 1633 to the present from a constitutional and political perspective.

240W. History Workshop: Topics in American Society and Culture
Either semester. Three credits. Baldwin
The development of Urban America with emphasis on social, political, physical, and environmental change in the industrial city.

241. The History of Urban America
(Also offered as URBN 241.) Either semester. Three credits. Baldwin

242. Work and Workers in American Society
Either semester. Three credits. Porter-Benson
Changes in work from the 17th through the 20th centuries. Workers’ experiences, ideologies, and activities as shaped by gender, race/ethnicity, region, occupation, and industry.

243. Colonial America: Native Americans, Slaves, and Settlers, 1492-1760
First semester. Three credits. Recommended preparation: HIST 231. Dayton
The legacy of Columbus, creative survival of native Americans in the face of disease and warfare, religious utopianism and the profit motive in colonization. The growth of a distinctive Anglo-American political culture, gender and family relations, and the emergence of a racial caste system.

243W. Colonial America: Native Americans, Slaves, and Settlers, 1492-1760
Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: HIST 231.

244. The American Revolution
Creation of the United States of America from the beginnings of the independence movement through the adoption of the Constitution and Bill of Rights.

245. Atlantic Voyages
Either semester. Three credits.
Seafaring and society since the age of Columbus. Emphasis on the Anglo-American experience.

246. African American History Since 1865
Either semester. Three credits. Ogbar
History of African-American people since the Civil War. Contributions by black people to American

246W. African American History Since 1865
Prerequisite: ENGL 105 or 110 or 111 or 250.

247. Immigrants and the Shaping of American History
Either semester. Three credits. Recommended preparation: One course in American History. The origins of immigration to the United States and the interaction of immigrants with the social, political, and economic life of the nation after 1789, with emphasis on such topics as nativism, assimilation, and the “ethnic legacy.”

248. Topics in U.S. Legal History
Either semester. Three credits. With change in content, may be repeated for credit. Dayton
Introduction to legal culture and appellate case materials from the eighteenth through the twentieth centuries. Topics include: child custody and family law, the courts’ role in industrial development, the law of slavery and freedom in the North, and various aspects of civil rights.

248W. Topics in U.S. Legal History
Prerequisite: ENGL 105 or 110 or 111 or 250.

249. Rise of U.S. Global Power
Either semester. Three credits. Recommended preparation: HIST 231 or 232. Costigliola
The people and ideas that powered the growth of America’s global empire. Emphasis on the world wars, the Cold War, the Vietnam War, intervention in Latin America, and the global economy.

250. Byzantium
Either semester. Three credits.
A survey of the major developments from the fourth through the fifteenth centuries: religious controversies, the theme system, the Crusades, Byzantine civilization, its law, art, literature, and its impact upon European and Russian civilization.

251. Medieval and Imperial Russia to 1855
First semester. Three credits.
The development of Russia from the emergence of the Slavs to the reign of Alexander II. Russian political institutions, orthodoxy and cultural traditions, nobility, peasantry, and townspeople.

252. History of Russia Since 1855
Continuation of History 251. Late imperial Russia, the former Soviet Union, and contemporary Russia.

253. The History of Human Rights
Either semester. Three credits.
Case studies in the emergence and evolution of human rights as experience and concept.

254W. The Habsburg Monarchy and Its Peoples, 1740-1918
Second semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: HIST 101.
The rise and fall of the multinational, dynastic state of the Habsburgs, with emphasis upon those forces which sustained it through the nineteenth century and those which brought its collapse in 1918.

255. Germany from the Reformation to 1815
First semester. Three credits. Bergmann
A political and cultural survey of German history with topical emphasis on the Reformation, the religious wars, the Age of Enlightenment, the rise of Brandenburg-Prussia, Germany during the revolutionary era.

255W. Germany from the Reformation to 1815
Prerequisite: ENGL 105 or 110 or 111 or 250.

256. Germany Since 1815
Second semester. Three credits. Bergmann
A study of German political, social, and intellectual history since the Napoleonic Wars. This course also considers European and world problems as reflected in the emergence of Germany as a pivotal force in international affairs.

257. The Early Church and Christian Thought
(Also offered as CAMS 250.) Either semester. Three credits. Recommended preparation: HIST 216 or CAMS 255. Caner
A critical approach to the evolution of Christian thought, social organization and institutions ca. 50-450 C.E. Topics include gnosticism, apostolic succession, heresy, orthodoxy.

258. Intellectual and Social History of Europe in the Nineteenth Century
First semester. Three credits. Bergmann
The thought and feeling of Europeans in their social context.

258W. Intellectual and Social History of Europe in the Nineteenth Century
Prerequisite: ENGL 105 or 110 or 111 or 250.

259. Intellectual and Social History of Europe in the Twentieth Century
Second semester. Three credits. Bergmann
A continuation of HIST 258.

259W. Intellectual and Social History of Europe in the Twentieth Century
Prerequisite: ENGL 105 or 110 or 111 or 250.

260. Hip-Hop, Politics and Youth Culture in America
Either semester. Three credits. Ogbar
History of hip-hop, its musical antecedents and its role in popular culture. Race, class, and gender are examined as well as hip-hop’s role in popular political discourse.

261. English History to 1603
First semester. Three credits. Open to sophomores or higher. Olson
A survey of English history from its origin to the close of the Tudor period. Emphasis is placed on the development of the English nation and the growth of its culture. Recommended to majors in English.

262. History of Modern England
Second semester. Three credits. Open to sophomores or higher. Watson
Cultural, political, economic, and intellectual development of modern Britain, with special emphasis on changing ideas of national identity.

264. Social and Economic History of Modern Britain
First semester. Three credits. Watson
The change from an agrarian to an industrial society.

265. History of Ireland
Either semester. Three credits. Canning
History of Ireland, with emphasis on the modern period. The rise of Irish nationalism, the Irish Literary Revival, and the problems of Northern Ireland.

267. Italy 1250-1600
Either semester. Three credits. Gouwens
Italy from the triumph of the city-state and the popolo grosso to the end of the Renaissance. The complex interrelationship between society and culture will be the focus of study.

268. Japanese Americans and World War II
(Also offered as AASI 278.) First semester. Three credits. Buckly
The events leading to martial law and executive order 9066, the wartime experience of Japanese Americans, and national consequences.

269. The Modernization of Italy from 1815 to Present
Second semester. Three credits. Open to sophomores or higher. Davis
The modernization of Italy’s traditional sociopolitical and economic structure: Industrialization, unification, the liberal regime, fascism, and the republic.

270. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

271. The Renaissance
First semester. Three credits. Gouwens
Europe in the fourteenth and fifteenth centuries.

272. The Reformation
Second semester. Three credits.
Europe in the sixteenth century with emphasis on religious developments, rise of the modern state, birth of science, expansion of Europe, and the Commercial Revolution.

273. Europe in the Seventeenth Century
First semester. Three credits.
Conflict of constitutionalism and absolutism, colonial expansion and rivalry, development of science, and the age of reason, the age of the baroque, the age of Louis XIV.

274. Europe in the Eighteenth Century
Second semester. Three credits.
Intellectual, political, and socioeconomic developments in Europe from 1713 to 1789.

275. Latin America and the Great Powers
First semester. Three credits.
Great power diplomatic, commercial, and cultural relations with Latin America from the end of the colonial period to the present. Emphasis on the United States and Great Britain.

276. Andean Societies
Second semester. Three credits. Recommended preparation: HIST 281 or 282. Spalding
History of the geographical and social region occupied by the Inca Empire: pre-Columbian cultures, the period of Spanish colonial rule, and the modern Andean republics (primarily Ecuador, Peru, and Bolivia).

277. Modern India
(Also offered as AASI 277.) Either semester. Three credits. Buckley
An introduction to the history of India from the Mughal and European invasions of the 16th Century to the present. India’s synthesis of Eastern and Western culture, traditional and new, will be the focus.

278. History of Latino/as in the United States
(Also offered as PRLS 220.) Either semester. Three credits. Silvestrini
Settlement and growth of Hispanic-origin populations in the United States today, from Spanish and Mexican settlement of western United States to the growth of Latino communities. Student oral history project.

279. France Since 1715
Second semester. Three credits. Schafer
The disintegration of the monarchical synthesis prior to and during the French Revolution; the attempts to harmonize French society under subsequent regimes.
281. Latin America in the Colonial Period
First semester. Three credits. Open to sophomores or higher. Silvestrini
Pre-Columbian Civilization in America, the epoch of conquest and settlement, together with a study of the Ibero-Indian cultural synthesis which forms the basis of modern Latin American civilization.

282. Latin America in the National Period
Second semester. Three credits. Open to sophomores or higher. Silvestrini
Representative countries in North, Central, and South America and the Caribbean together with the historic development of inter-American relations and contemporary Latin American problems.

283W. The Hispanic World in the Ages of Reason and Revolution
First semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Recommended preparation: HIST 281. Silvestrini
The transformation of Spanish America from the Bourbons in 1700, through the wars of independence and the struggle to build stable national states in the Nineteenth Century.

284. Latinos/as and Human Rights
(Also offered as PRLS 221.) Either semester. Three credits. Silvestrini
Latin/o/a issues related to human, civil and cultural rights, and gender differences.

285. Cuba, Puerto Rico, and the Spanish Caribbean
First semester. Three credits. Silvestrini
Discovery and settlement, slavery and plantation economy, recent political and economic developments, and United States relations with the Spanish Caribbean.

286. Argentina and LaPlata Region
First semester. Three credits. Recommended preparation: HIST 281 or 282. Silvestrini
Colonial heritage, social and economic transformations of Argentina, Uruguay and Paraguay, foreign relations and contemporary turmoil.

287. East Asia to the Mid-Nineteenth Century
(Also offered as AASI 287.) First semester. Three credits. Wang
The major problems and issues of traditional Chinese and Japanese history and historiography. Special emphasis on the “Great Tradition” in ideas of both civilizations.

287W. East Asia to the Mid-Nineteenth Century
(Also offered as AASI 287W.) Prerequisite: ENGL 105 or 110 or 111 or 250. Wang

288. East Asia Since the Mid-Nineteenth Century
(Also offered as AASI 288.) Second semester. Three credits. Wang
The reactions of East Asia to the Western threat, and the rise of Asian nationalism, communism, and fascism. Special attention to the tensions caused by the conflict of ideas.

288W. East Asia Since the Mid-Nineteenth Century
(Also offered as AASI 288W.) Prerequisite: ENGL 105 or 110 or 111 or 250.

289. War and Diplomacy in East Asia
First semester. Three credits. HHS 111
European struggle for power in Asia since 1842, in the context of the rise of Japan and the reassertion of Chinese power.

290. The Middle East Crucible
First semester. Three credits. Azimi
Twentieth-century issues in the Middle East heartland with analysis focusing on the Ottoman heritage, nationalism, Arab-Israeli and other conflicts, Islam, oil, water, rapid sociopolitical change, trends in development, super-power rivalries, and the search for identity, independence, and peace with justice.

291. Personality and Power in the Twentieth Century
Second semester. Three credits. Morgan
Dynamic leadership in historical crises, including, for example, Churchill, Roosevelt, Stalin, Hitler, DeGaulle, Kennedy, and Mao.

292W. Biography as History
Second semester. Three credits. Two class periods of 75 minutes. Prerequisite: ENGL 105 or 110 or 111 or 250. Open to sophomores or higher. Morgan
What the lives of significant individuals reveal about major historical periods and themes. Variable topics.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. Morgan
May be repeated for credit. Consent of department head required, normally to be granted before the student’s departure. May count toward the major with consent of the advisor.

294. Asian-American Experience Since 1850
(Also offered as AASI 294.) Either semester. Three credits. Wang
Survey of Asian-American experiences in the United States since 1850. Responses by Asian-Americans to both opportunities and discrimination.

295W. History through Fiction
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Open to sophomores or higher. Recommended preparation: HIST 231 or 232 (if American perspective) or HIST 228 or 229 (if European perspective).

What classic novels and other works of fiction reveal about major historical periods and themes in history. Variable topics. May be offered from an American or European perspective.

296. Directed Research
Either or both semesters. Three credits. Open only to senior history majors. HHS 111
An introduction to research methods and resources in history.

297W. Senior Seminar
Either semester. Three credits. Prerequisite or corequisite: HIST 211. Prerequisite: ENGL 105 or 110 or 111 or 250. Open only to undergraduate history majors in their senior year. With a change in content, may be repeated for credit. HHS 111
These seminars give students the experience of reading critically and in depth in primary and secondary sources, and of developing and defending a position as an historian does.

298. Special Topics
Either semester. Credits and hours by arrangement. HHS 111
With a change of content, may be repeated for credit. Prerequisites and recommended preparation vary.

299. Independent Study
Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. With a change in content, may be repeated for credit.

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Human Development and Family Studies (HDFS)

Dean: Charles M. Super
Program Office: Room 106, Family Studies Building (Design and Resource Management Center)

For major requirements, see the School of Family Studies section of this Catalog.

183. Courtship, Marriage, and Sexuality
(Formerly offered as HDFR 183.) Either semester. Three credits.

Development of patterns of interaction in premarital and marital relationships.

190. Individual and Family Development
(Formerly offered as HDFR 190.) Either semester. Three credits.

Human development throughout the life span, with emphasis upon the family as a primary context.

195. Special Topics
Lecture
Either semester. Credits, prerequisites, and hours as determined by the Senate Curricula and Courses Committee. May be repeated for credit with a change in topic.

201. Diversity Issues in Human Development and Family Studies
(Formerly offered as HDFR 201.) Either semester. Three credits. Recommended preparation: HDFS 190. Open to sophomores or higher.

Critical issues in diversity and multiculturalism in human development, family relations, and professional practice.

202. Human Development: Infancy Through Adolescence
(Formerly offered as HDFR 202.) Either semester. Three credits. Open to sophomores or higher.

Individual development and behavior from prenatal period through adolescence; impact of peers, school, other social agencies, and especially the family.

204. Human Development: Adulthood and Aging
(Formerly offered as HDFR 204.) Either semester. Three credits. Open to sophomores or higher.

Individual development and behavior from young adulthood through later life with special attention given to family and social influences. Physical, cognitive, social and personality changes, role transitions, and interpersonal and intergenerational relationships.

205. Understanding Research Methods in Human Development and Family Studies
Either semester. Three credits. Prerequisite: STAT 100V or 110V. Prerequisite or corequisite: HDFS 190. Open only to HDFS majors. Not open for credit to students who have completed HDFR 290 or HDFS 290W. Open to sophomores or higher.

Overview of research methods used in human development and family studies, with emphasis on (1) the social context in which research occurs and is used, and (2) strengths and limitations of social science research methods. Includes topics such as hypothesis formation, measurement of social variables, research ethics, data collection techniques, and interpreting results.

218. Observational Child Study
(Formerly offered as HDFR 218.) Either semester. Three credits. Two class periods and laboratory by arrangement.

Assessment of developmental skills of young children using a variety of observational methods and procedures. Laboratory experience includes participation in the University of Connecticut’s Child Development Laboratories.
228. Child Development Laboratory: Advanced Teaching Practicum
(Formerly offered as HDFR 228.) Either semester. Six credits. Two class periods and laboratory by arrangement. Prerequisite: HDFS 227, GPA of 2.5 in HDFS courses, and consent of instructor. Continuation of HDFS 227. Experience in early childhood program implementation, administration, staff supervising, policy making, and curriculum planning.

230. Current Topics in Early Childhood Education
(Formerly offered as HDFR 230.) Semester and hours by arrangement. Variable credits. Open only with consent of instructor. With a change in content this course may be repeated for credit. In-depth investigation of a current issue in early childhood education (e.g. emergent literacy, diversity), with focus on recent research and application to classroom practice. Includes classroom instruction and laboratory observation.

231. Infancy
(Formerly offered as HDFR 231.) Either semester. Three credits. Prerequisite: HDFS 202 or PSYC 236. Human development from birth through the second year of life within the family setting.

234. Social and Personality Development During Infancy and Childhood
(Formerly offered as HDFR 234.) Either semester. Three credits. Prerequisite: HDFS 202 or PSYC 236. Social and personality development during infancy and childhood; influence of family members, peers, and social institutions on development; aggression, pro-social behaviors, autonomy, self-concept, sex-role development, and moral development.

234W. Social and Personality Development During Childhood
(Formerly offered as HDFR 234W.) Prerequisite: HDFS 202 or PSYC 236; ENGL 105 or 110 or 111 or 250.

240. The Family-School Partnership
(Formerly offered as HDFR 240.) Either semester. Three credits. The role of families in the education process. The effective family-school-community partnership in educating children: Communications and the implications of culture, socio-economics, family form, family dynamics, family supports, and public policy.

245. Parent-Child Relations in Cross-Cultural Perspective
(Also offered as ANTH 245.) (Formerly offered as HDFR 245.) Either semester. Three credits. Theory and research on major dimensions of parenting in the U.S.A. and cross-culturally: parental warmth, control and punishment.

248. Aging in American Society
(Also offered as SOCI 248.) (Formerly offered as HDFR 248.) Either semester. Three credits. Social gerontology: the role and status of older people in a changing society.

248W. Aging in American Society
(Also offered as SOCI 248W.) (Formerly offered as HDFR 248W.) Prerequisite: ENGL 105 or 110 or 111 or 250.

250. Gender and Aging
(Formerly offered as HDFR 250.) Either semester. Three credits. Aging process as it impacts on men and women; historical and cross-cultural perspectives, changing family roles, including grandparenthood and widowhood, and implications of changing gender roles for self-actualization of older persons.

250W. Gender and Aging
(Formerly offered as HDFR 250W.) Prerequisite: ENGL 105 or 110 or 111 or 250.

252. Death, Dying, and Bereavement
(Formerly offered as HDFR 252.) Either semester. Three credits. Cultural context of death, personal meaning of death at different stages in life cycle, and the effect of death upon survivors.

252W. Death, Dying, and Bereavement
(Formerly offered as HDFR 252W.) Prerequisite: ENGL 105 or 110 or 111 or 250.

259. Men and Masculinity: A Social Psychological Perspective
(Formerly offered as HDFR 259.) Either semester. Three credits. Men's gender role socialization over the life span; men's developmental issues, gender role, conflicts, and interpersonal dynamics with women. Theory, research, and personal exploration are integrated.

260. Woman: A Developmental Perspective
(Formerly offered as HDFR 260.) Either semester. Three credits. Development of women and women's roles from birth to maturity: physiological, psychological, sociological, and interpersonal systems which contribute to development of women across the life span: cross-cultural and alternative models for role development.

264. Legal Aspects of Family Life
(Formerly offered as HDFR 264.) Either semester. Three credits. Law in family life.

266. Introduction to Counseling
(Formerly offered as HDFR 266.) Either semester. Three credits. Principles of professional counseling including therapeutic processes, roles, and skills. How counselors help people solve problems is explored. Student's psychological growth and development is facilitated through psychological education.

267. Latino Health and Health Care
(Also offered as PRLS 250.) Either semester. Three credits. Overview of health and health care issues among Latinos in the United States. Particular attention is paid to cultural and social factors associated with health and well being (e.g., migration, acculturation, SES).

268. Latinos: Sexuality and Gender
Either semester. Three credits. Critical discussion of issues involving gender and sexuality among Latinos, with particular attention to race, class, ethnicity, and acculturation.

269. Family Violence
(Formerly offered as HDFR 269.) Either semester. Three credits. Theory, research, prevention, and treatment concerning the multiple forms of violence within contemporary families. The impact of violence on families and family members over the entire life span is considered. Includes child abuse and neglect, courtship violence, spouse abuse, elder abuse, and rape.

269W. Family Violence
Prerequisite: ENGL 105 or 110 or 111 or 250.

270. Low Income Families
(Formerly offered as HDFR 270.) Either semester. Three credits. Impact of poverty and related problems on
development of the child in the context of the family. Family structure, childrearing patterns, early educational and community programs.

271. Black American Family Patterns  
(Formerly offered as HDFR 271.) Either semester.  
Three credits.  
Continuities and discontinuities between black American and other families as reflected by black American families.

272. Family and Work  
(Formerly offered as HDFR 272.) Either semester.  
Three credits.  
Interaction of the world of work with family structure; social psychological dynamics that enhance or impede working families’ lives.

273. Family Interaction Processes  
(Formerly offered as HDFR 273.) Either semester.  
Three credits.  
Family interaction: communication processes, bonding behaviors, management of conflict and aggression, negotiation of family crisis.

274. Public Policy and the Family  
(Formerly offered as HDFR 274.) Either semester.  
Three credits.  
Analysis of government programs and policies impacting the family: child care, aging, family law, mental health, family violence, income maintenance, and family impact analysis.

275. Family Pathology  
(Formerly offered as HDFR 275.) Either semester.  
Three credits.  
Theory, research and intervention in families under stress.

276. Planning and Managing Human Service Programs  
(Formerly offered as HDFR 276.) Either semester.  
Three credits.  
Planning techniques: needs assessment, data collection and analysis, budgeting, and evaluation. Management skills: decision making, management theory and organizational behavior, personnel motivation, accountability, and financial management.

276W. Planning and Managing Human Service Programs  
(Formerly offered as HDFR 276W.) Prerequisite: ENGL 105 or 110 or 111 or 250.  

277. Issues in Human Sexuality  
(Formerly offered as HDFR 277.) Either semester.  
Three credits.  
Contemporary issues concerning human sexuality: impact upon individuals and family units.

278. Family in Society  
(Formerly offered as HDFR 278.) Either semester.  
Three credits.  
Sociocultural and historic variability of family and kinship systems. Race, class, gender and ethnicity as those advantage or disadvantage the opportunity structure for families and individuals. Effect of public policy on the quality of family life.

278W. Family in Society  
(Formerly offered as HDFR 278W.) Prerequisite: ENGL 105 or 110 or 111 or 250.

279. History of the Family  
(Also offered as HIST 209.) (Formerly offered as HDFR 279.) Either semester. Three credits. Not open for credit to students who have passed HIST 209.

Preindustrial and industrial family life in Western society since the Middle Ages; changes in demography, family size and structure, family economy, social expectations, sex roles, sexuality, and affective bonds.

280. Material Culture in American Family Life  
(Formerly offered as HDFR 280.) Either semester. Three credits.  
Material culture of the American family; interaction between family members and the artifacts in their near environment; role of personal possessions, household objects, housing and diet in daily family life and rituals over time.

281. Comparative Family Policy  
(Formerly offered as HDFR 281.) Either semester.  
Three credits.  
Comparative analysis of government programs and policies impacting families in the United States and other countries. Health and welfare policies, family planning, child care, teen pregnancy, and care of the aged.

283. Family Resource Management  
Either semester. Three credits.  
Decision-making process of families concerning the utilization of financial, personal, environmental and social resources.

284. Adolescence: Youth and Society  
(Formerly offered as HDFR 284.) Either semester. Three credits. Prerequisite: HDFS 202 or PSYC 236.  
Contemporary adolescence, the multiple forces and behavioral characteristics of this period of development.

Examines the methods through which empirical social science research can affect law and public policy affecting children and families.

287. Parenthood  
(Formerly offered as HDFR 287.) Either semester. Three credits.  
Parent behavior and the dynamics of parenthood; interpersonal, familial, and societal roles of parents and variables influencing these roles.

287W. Parenthood  
(Formerly offered as HDFR 287W.) Prerequisite: ENGL 105 or 110 or 111 or 250.  

288. Supervised Field Experience  
(Formerly offered as HDFR 288.) Either semester. Three or six credits. May be repeated up to a maximum of six credits. Prerequisites: GPA of 2.5 in HDFS courses; 15 credits of 200 level HDFS courses and consent of the Director of Undergraduate Studies. Students who do not meet all of these requirements may take the course with the consent of the fieldwork coordinator and of the seminar instructor. Weekly seminar required. Practicum by arrangement.

Supervised participation in settings where purposes and functions are related to the development and welfare of individuals and families.

289. Fieldwork in Community Settings  
(Formerly offered as HDFR 289.) Either semester. Three credits. Prerequisites: HDFS 288; GPA of 2.5 in HDFS courses; 15 credits of 200 level HDFS courses and consent of the Director of Undergraduate Studies. Cannot be repeated for credit. Cannot be used towards meeting major requirements in HDFS nor towards meeting GPA requirements in HDFS. Weekly seminar required. Practicum by arrangement.

Supervised participation in settings where purposes and functions are related to the development and welfare of individuals and families.

290. Research Methods in Human Development and Family Studies  
(Formerly offered as HDFR 290.) Either semester. Three credits. Prerequisite: HDFS 190 and PSYC 132 and 133 or 135. Open only to Human Development and Family Studies majors. Not open for credit to students who have completed HDFS 205.

Research methods used in human development and family studies.

290W. Research Methods in Human Development and Family Studies  
(Formerly offered as HDFR 290W.) Prerequisite: HDFS 190 and PSYC 132 and 133 or 135; ENGL 105 or 110 or 111 or 250.  

292. Research Practicum in Human Development and Family Studies  
(Formerly offered as HDFR 292.) Either semester. Credits and hours by arrangement. Prerequisite: GPA of 2.5 in HDFS courses and consent of instructor.  
Supervised experience conducting research in human development and family studies.

294. Foreign Study  
(Formerly offered as HDFR 294.) Either or both semesters. Three credits. Prerequisites: HDFS 205, 12 credits of 200-level HDFS/HDFS courses. Open only to Human Development and Family Studies majors. Open only with consent of instructor.

Students will work as research team to conduct a research project through all of its phases, from formulating a research question to final presentation of findings.

298. Selected Topics in Human Development and Family Studies  
(Formerly offered as HDFR 298.) Either semester. Three credits. With a change in content this course may be repeated for credit.

299. Independent Study for Undergraduates  
(Formerly offered as HDFR 299.) Either or both semesters. Three credits. Credits and hours by arrangement. Open only with consent of instructor. May be taken more than one semester. Students, working with a faculty supervisor, develop plans for an independent research project or review paper, execute the project, and complete a report.

Interdapamental (INTD)

Head of Department: Vice Provost for Undergraduate Education

Department Office: Room 318, Family Studies Building

165. Introduction to American Studies  
First semester. Three credits. Not open to students who have passed INTD 276.

What is an American? A multi-disciplinary inquiry into American societies and cultures.

180. FYE University Learning Skills  
Either semester. One credit. One class period. Open to freshman and sophomore students only.

A component of the First Year Experience (FYE) program, this course is intended to acquaint students with the university and expand their learning
experiences in order for them to adjust to the new expectations they will face. The course involves assignments that will provide opportunities for students to enhance their academic and interpersonal skills.

181. FYE Learning Community Seminar
Either semester. One credit. One class period. Open to freshman and sophomore students only. This course must be taken in combination with a cluster of three courses; with the permission of the instructor, one of the cluster courses may have been completed previously. With a change in content, this course may be repeated for credit.

A component of the First Year Experience (FYE) program, this seminar course is intended to provide an opportunity to integrate the consideration of material from three courses through discussion, assignments, and projects. Students will have opportunities to enhance their academic and interpersonal skills.

182. FYE Faculty/Student Seminar
Either semester. One credit. One class period. Open to freshman and sophomore students only. With a change in content, this course may be repeated for credit.

A component of the First Year Experience (FYE) program, this seminar course is intended to provide an opportunity for students to investigate topics of professional interest to the faculty instructor through guided research or reading, discussion, and some writing. The course will help students learn independently and engage actively in the academic life of the university.

193. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit (to a maximum of 15). Consent of appropriate area studies director required before departure.

Course work undertaken within approved Study Abroad programs, usually focussing on the history, culture, and society of a particular country.

195. Special Topics Lecture
Either semester. Credits, prerequisites, and hours as determined by the Senate Curricula and Courses Committee. May be repeated for credit with a change in topic.

196. Special Topics Seminar
Either semester. Credits and hours as determined by the Senate Curricula and Courses Committee. Open only with consent of instructor. May be repeated for credit with a change in topic. This course may or may not concur with credit toward graduation. Students should consult the course syllabus and the Dean’s Office of their School or College.

197. Special Topics Independent Study
Either semester. Credits and hours as determined by the Senate Curricula and Courses Committee. Open only to freshmen and sophomores with consent of instructor. May be repeated for credit with a change in topic.

198. Freshman Honors Seminar
First semester. One credit. One class period. Open only with consent of Honors Director.

A overview of some aspects of university education. Designed to help students set learning goals to be achieved during the baccalaureate experience.

210. Urban Field Studies
Either semester. Nine credits. Hours by arrangement. Open only with consent of the Director of the Urban Semester Program. Must be taken concurrently with INTD 211 and 212. This course is also listed under Sociology.

Field experience supervised by the director and an examining committee consisting of the director and two or more faculty members from two departments in the College of Liberal Arts and Sciences.

211. Seminar in Urban Problems
Either semester. Three credits. Hours by arrangement. Open only with consent of the Director of the Urban Semester Program. Must be taken concurrently with INTD 210 and 212.

Discussions based upon assigned readings and led by invited speakers from within the University.

212. Urban Semester Field Work Seminar
Either semester. Three credits. Hours by arrangement. Open only with consent of the Director of the Urban Semester Program. Must be taken concurrently with INTD 210 and 211.

Students make analytic presentations of their field experiences, relating these to the pertinent available literature. Particular urban problems are discussed with invited experts from outside the University.

212W. Urban Semester Field Work Seminar
Prerequisite: ENGL 105 or 110 or 250. Must be taken concurrently with INTD 210 and 211.

220. Studies in the Culture of the Middle Ages
Second semester. Three credits. Open only with consent of the instructor of record. With a change in content this course may be repeated for credit. Sponsored by the Committee for Medieval Studies.

An interdisciplinary examination of various aspects of the culture of Medieval Europe. Instructors and content will vary. Particulars will be announced prior to registration for the semester in which the course is offered.

222. Linkage through Language
Either semester. One credit. Prerequisite: Language skills equivalent to four semesters of college course work in a single foreign language (may be completed concurrently). May be repeated for credit, with a change in content. Sponsored by the Modern & Classical Languages Department in collaboration with the department offering the companion course.

This course supplements a three-credit course in a particular discipline by studying selected foreign language texts related to the topic of its companion course. Practice in oral and written expression.

224. Spanish Language and Culture for the Health Professions (“Spanning”)
Either semester. One credit. Open with the consent of instructor to students in health care professions and social services. With a change in content, may be repeated for credit. Sponsored by Spanish/Modern & Classical Languages department in collaboration with schools of Nursing and Allied Health Professions.

Supplements professional training with focused instruction in Spanish language, culture, and health issues of relevance to professionals working with Spanish-speaking populations.

240C. Social Science Data Utilization
Either semester. Three credits. Three class periods and one 1-hour laboratory. This course is also listed under Political Science and Sociology. This course may not be counted toward the major in Political Science or in Sociology. Sponsored by the Social Science Data Center and the Political Science Department. Offered only at the Avery Point campus. Davis

Introduction to social science data analysis and utilization. Laboratory assignments will use the University Computer Center facility for the execution of statistical package setups, and data bases by the Social Science Data Center/Roper Center.

245. Human Rights Internship and Portfolio
Either semester. Three credits. Prerequisite: Consent of Director of Human Rights Minor.

Internship with a human rights-related agency, organization, or group, and preparation of a portfolio synthesizing the internship experiences with Human Rights Minor course work.

249. Violence: Sources and Alternatives
First semester. Three credits. Blank, Prefiit, Reed

Sources of violence in the individual, the home, the nation, and among nations are examined. Alternatives to the use of violence at each of these levels are explored.

250. Global Militarism and Human Survival
Second semester. Three credits. Two class periods (one 2-hour and one 1-hour). Layster

A consideration of the threat posed to humanity’s survival by a growing global militarism and the unprecedented destructiveness of nuclear weapons.

265. Seminar in American Studies
Also offered as ENGL 265. Second semester. Three credits.

An in-depth study of an event, historical period, or cultural production from an interdisciplinary perspective.

280. Library Research Methods
Either semester. Two credits. Two class periods. Open only with consent of instructor. Offered at the Waterbury Campus.

Specific instruction in the use of a university library and in the use of the bibliographic tools and methods that are an essential part of library research.

282. Interdisciplinary Experience
Either semester. One credit. Open only with consent of instructor. May be repeated for credit with a change in topic.

A variable topic course, drawing material from multiple departments. Experimentation in content and format is encouraged.

291. Interdisciplinary Honors Seminar
Either semester. Three credits. Open only with consent of instructor. May be repeated for credit with a change in topic.

An interdisciplinary seminar designed for honors students and open to other qualified students. Topics vary from semester to semester. Sponsored by the Office of Honors Programs.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit (to a maximum of 17). Consent of appropriate area studies director or major advisor required before departure. May count toward the major with consent of advisor.

Course work undertaken within approved Study Abroad programs, usually focusing on the history, culture, and society of a particular country.

294. The Bible
First semester. Three credits, which may be counted toward the related field requirement in History, Philosophy, or English. Sponsored by and listed under the English, History, and Philosophy Departments.

The literary, historical, and philosophical content, circumstances and problems of the Old and New Testaments.

295W. Capstone Course
Either semester. Three credits. Consent required by instructor and the INTD Department Head. Prerequisite: ENGL 105 or 110 or 111 or 250 and senior standing with an approved individualized major plan of study.
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296W.  Senior Thesis
Either semester. Three - six credits. Hours by arrangement.
Consent required by instructor and INTD Department Head. Prerequisite: ENGL 105 or 110 or 111 or 250 and senior standing with an approved individualized major plan of study. Students must have obtained a thesis advisor and have an approved thesis topic before registration.
All honors and distinction students writing a thesis or distinction project for their individualized major plan of study must register for this course during their last academic year. Students must present their thesis to the Individualized Major Program.

297.  Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298.  Special Topics
Either semester. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.

299.  Independent Study
Either semester. Credits and hours by arrangement. Open only with consent of instructor. May be repeated for credit.

Italian Literary and Cultural Studies (ILCS)
Consult the Modern and Classical Languages Departmental listing in this Catalog for requirements for Majors in Italian Literary and Cultural Studies.
Consult the Departmental Handbook for courses offered in the appropriate semesters and further description of these courses.

145-146.  Elementary Italian I and II
(Formerly offered as ITAL 145-146.) Both semesters. Four credits each semester. Four class periods and one 1-hour laboratory practice. Not open for credit to students who have had three or more years of Italian in high school. Students who wish to continue in Italian but feel ill prepared should contact the head of the Modern and Classical Languages Department.

147-148.  Intermediate Italian I and II
(Formerly offered as ITAL 147-148.) Both semesters. Four credits each semester. Four class periods and one 1-hour laboratory practice. Open only for credit to students who have had three or more years of Italian in high school. Students who wish to continue in Italian but feel ill prepared should contact the head of the Modern and Classical Languages Department.

149-252.  Intensive Italian I - IV
First and second semesters. Eight credits per semester. Two hours a day, four days a week, plus a two-hour laboratory practice. Open only with consent of the instructor. Not open for credit to students who have passed ILCS 145 through ILCS 148.
Intensive coverage of two years of Italian in two semesters. Intensive Italian 175-176 (Fall) covers the same material as ILCS 145-146. Intensive Italian 177-178 (Spring) covers the same material as ILCS 147-148.

213.  Year Abroad in Italy: Preparation
(Formerly offered as ITAL 213.) Second semester. Three credits. Open only to students selected for the Year Abroad in Florence Program.
A comprehensive review of Italian language and civilization.

237.  Italy Today
(Formerly offered as ITAL 237.) First semester. Three credits. Prerequisite: ILCS 148.
A survey of contemporary Italian political, social, economic and cultural life.

238.  Italian Civilization in the Renaissance
(Formerly offered as ITAL 238.) Either semester. Three credits. Prerequisite: ILCS 148 or equivalent.
A survey of social, cultural and artistic trends in Italy during the Renaissance.

239.  Italian Composition and Conversation I
(Formerly offered as ITAL 239.) First semester. Three credits. Prerequisite: ILCS 148 or equivalent.
Practice in written and oral composition. Syntax study.

240.  Italian Composition and Conversation II
(Formerly offered as ITAL 240.) Second semester. Three credits. Prerequisite: ILCS 239 or equivalent.
Further practice in written and oral composition. Treatment of the finer points in syntax.

243.  Main Currents of Italian Literature Through the Renaissance
(Formerly offered as ITAL 243.) First semester. Three credits. Prerequisite: ILCS 148 or equivalent.
The history of Italian literature through the Renaissance is traced through its major developments. The aim of the course is to acquaint the student with the principal authors, literary schools and trends.

244.  Main Currents of Italian Literature After the Renaissance
(Formerly offered as ITAL 244.) Second semester. Three credits. Prerequisite: ILCS 148 or equivalent.
The history of Italian literature after the Renaissance is traced through its major developments. The aim of the course is to acquaint the student with the principal authors, literary schools and trends.

250.  Italian Theatre of the Eighteenth Century
(Formerly offered as ITAL 250.) Second semester. Three credits. Prerequisite: ILCS 237 or 239 or 243 or equivalent.
Readings from Metastasio, Goldoni, and Alfieri.

251-252.  Machiavelli, Michelangelo and Renaissance Literature
(Formerly offered as ITAL 251-252.) Second semester. Three credits each semester. Prerequisite: ILCS 237 or 239 or 243 or equivalent.
Selected readings from the works of Poliziano, Leonardo da Vinci, Lorenzo de’ Medici, Michelangelo, Ariosto, Machiavelli, Castiglione, Tasso, and others.

253.  Dante and His Time
(Formerly offered as ITAL 253.) Either semester. Three credits. Prerequisite: ILCS 237 or 239 or 243 or equivalent.
Selected readings from Dante, Petrarch, Compagni, Villani.

254.  Boccaccio and His Time
(Formerly offered as ITAL 254.) Either semester. Three credits. Prerequisite: ILCS 237 or 239 or 243 or equivalent.
Readings from Boccaccio and others with special attention to the problems of social and sexual ethics.

261.  Twentieth-Century Italian Literature
(Formerly offered as ITAL 261.) Either semester. Three credits. Recommended preparation: ILCS 237 or 239 or 240. Bouchard
Major trends in twentieth-century Italian Literature from the early modern period to contemporary times.

262.  Nineteenth-Century Italian Literature
(Formerly offered as ITAL 262.) Either semester. Three credits. Recommended preparation: ILCS 237 or 239 or 240 or 243 or instructor consent. Bouchard
Nineteenth-century Italian drama, poetry, and narrative from the Napoleonic period to the years immediately following the conquest of Rome in 1870.

299.  Independent Study
(Formerly offered as ITAL 299.) Either or both semesters. Credits and hours by arrangement. Open only with consent of instructor. With a change in content, may be repeated for credit.

Florenc Program. The Florence Program is open to sophomores, juniors, and seniors. Courses include intensive Italian, Italian literature, and, with the consent of the director of the Program, any course offered by the University of Florence. Offered at the Florence campus.

Italian Studies (in English)

101.  The Italian Renaissance
(Formerly offered as ITAL 101.) First semester. Three credits. A knowledge of Italian is not required. Taught in English.
A survey of Italian Renaissance civilization, with emphasis on literature and intellectual life.

149.  Cinema and Society in Contemporary Italy
(Formerly offered as ITAL 149.) Second semester. Three credits. Three class periods and one 2-hour laboratory period. Lectures in English. Films in Italian with English subtitles.
A critical analysis of contemporary Italian society seen through the media of film and literature.

158.  Italian American Experience in Literature and Film
Either semester. Three credits. Three class periods and one 2-hour laboratory period.
Focuses on the Italian American experience as represented in a variety of fields, including literature and cinema.

255W.  Dante’s Divine Comedy in English Translation
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. This course may not be counted toward the Italian Literary and Cultural Studies major or minor group. Masciandaro
Dante’s poem as a unique synthesis of Medieval culture. Emphasizes its integration of ethics, political thought, and theology with poetic imagination.

256W.  The Literature of the Italian Renaissance
(Formerly offered as ITAL 256W.) Second semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Not open to students who have passed ILCS 251-252. This course may not be counted toward the Italian Literary and Cultural Studies major group.
A survey, in English, of the major literary and philosophical currents of the Italian Renaissance. Selections from Boccaccio, Petrarch, Pico della Mirandola, Machiavelli, Castiglione, and others.

258.  Cinematic Representations of Italian Americans
Either semester. Three credits. Three class periods and one 2-hour laboratory period.
Cinematic representations of Italian Americans in the works of major directors from the silent era to the present. Construction of and attempts to dislodge negative stereotypes of Italian American male and female immigrants.
258W. Cinematic Representations of Italian Americans
Prerequisite: ENGL 105 or 110 or 111 or 250.

260W. Italian Cinema
(Formerly offered as ITAL 260W.) Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. Two class periods and one 2-hour laboratory period. Lectures in English. Films in Italian with English subtitles. Bouchard.

Italian cinema from the silent era to the present. Its genres, such as epic film, melodrama, comedy “Italian-style,” “Spaghetti-Westerns,” and political cinema. Cinema as a reflection on and comment upon the social and political contexts of Italian history from fascistic Italy to modernization and beyond.

193. Foreign Study
(Formerly offered as ITAL 193.) Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally before the student’s departure.

Special topics taken in a foreign study program.

293. Foreign Study
(Formerly offered as ITAL 293.) Either or both semesters. Credits and hours by arrangement. May be repeated for credit. Consent of Department Head required, normally granted prior to the student’s departure. May count toward the major with consent of the advisor.

Special topics taken in a foreign study program.

295. Variable Topics
(Formerly offered as ITAL 295.) Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

298. Special Topics
(Formerly offered as ITAL 298.) Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit. Prerequisites and recommended preparation vary.

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Japanese (JAPN)

Head of Department: Professor David K. Herzberger
Department Office: Room 228, J.H. Arjona Building

101-102. Elementary Levels I and II
103-104. Intermediate Levels I and II

101 and 103 are offered in the first semester, and 102 and 104 in the second. Please refer to the Critical Languages course descriptions in this publication. Consult the Program Director in Arjona 128 or at Ed.Benson@UConn.edu for more information.

Journalism (JOUR)

Head of Department: Professor Maureen Croteau
Department Office: Room 422, Arjona Building

For major requirements, see the College of Liberal Arts and Sciences section of this Catalog.

101. Introduction to Journalism
Either semester. Three credits.

A survey of the principles, trends, attitudes and philosophies of journalism with emphasis on newspapers and magazines.

102. The Press in America
Either semester. Three credits.

The development of American print journalism from 18th century print shops to 21st century corporations; how journalists and their work have evolved and influenced American life.

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200W. Newswriting I
Either semester. Three credits. Prerequisite: ENGL 105 or 110 or 111 or 250. One 75-minute lecture and one 2-hour laboratory plus field work. Open to sophomores or higher. Worcester.

Definition of news, newswriting style, community reporting, covering governmental meetings and writing statistical matter. Laboratory offers intensive practical writing exercises. Field trips required.

201W. Newswriting II
Either semester. Three credits. One 75-minute lecture and one 2-hour laboratory plus field work. Prerequisite: JOUR 200; ENGL 105 or 110 or 111 or 250. Open to Sophomores or higher. Dufresne.

Provides in-depth explanations and demonstrations of what reporters can expect to find, and report, in the courts, schools, town halls, land use agencies and other civic offices, boards and commissions.

202. Journalism Ethics
Either semester. Three credits. Prerequisite: JOUR 102. Breen.

Discussion of such contemporary problems as privacy, good taste, community standards, effectiveness of the press and responsibility of the press.

212W. Feature Writing
Either semester. Three credits. Prerequisite: JOUR 201; ENGL 105 or 110 or 111 or 250. Open to sophomores or higher.

Emphasis on finding, developing and writing feature stories. Outside stories will be assigned weekly.

213W. Magazine Journalism
Either semester. Three credits. Prerequisite: JOUR 201; ENGL 105 or 110 or 111 or 250. Recommended preparation: JOUR 212.

Students research, report and write, for publication, a magazine-length non-fiction article.

216. Publication Practice
Either semester. One to 3 credits. May be repeated for credit. Hours by arrangement. Open only with consent of instructor. Worcester.

Students and faculty work together to research, write, edit and produce a publication.

219. Daily Campus Critique
First semester. One credit. One class period. Open only with consent of instructor. May be repeated only once for credit.

A weekly critique of the content of the student daily newspaper stories, through editorials to advertising, copy and printing.

220. Law of Libel and Communications
Either semester. Three credits.

Typical subjects: libel, slander, invasion of privacy, obscenity, legal problems of newspapering, protecting the political process, protecting state secrets, protecting the public welfare.

230W. Copy Editing I
Either semester. Three credits. Prerequisite: JOUR 201; ENGL 105 or 110 or 111 or 250.

Editing for grammar, style and content, headline writing, introduction to basic newspaper design concepts.

231C. Copy Editing II

Emphasis on copy and picture selection, copy fitting, photo editing and computer-assisted editing, page layout and production.

233. Opinion Writing
First semester. One credit. Prerequisite: JOUR 201. One two-hour lab-lecture period. Breen.

Writing for the editorial and op-ed pages.

235C. Advanced Reporting Techniques
First semester. Three credits. Prerequisite: JOUR 201. Dufresne.

Using the Internet, databases, and other computer resources to research and report on the actions of courts, businesses, public agencies, and governments. Consideration of ethical questions.

240W. Newswriting for Radio and Television
Either semester. Three credits. Prerequisite: JOUR 200; ENGL 105 or 110 or 111 or 250. Two 75-minute lab-lecture sessions plus a field trip.

Application of newswriting techniques to the broadcast media.

241. Reporting and Editing TV News
Either semester. Three credits. Prerequisite: JOUR 240.

This is an advanced broadcast journalism class that teaches students how to gather, edit and deliver accurate, newsworthy information for television newscasts. Students develop the skills needed to report news and organize newscasts through actual experience in and out of class.

245. Specialized Journalism

Introduction to specialized fields such as business, science, education, arts, sports, and entertainment reporting. Students will examine some of the best work in the fields and will consider ethical issues and other problems.

250. Professional Seminar
Three credits. Three hours. Prerequisite: JOUR 200, which may be taken concurrently. Also available for one credit. Two hours. No prerequisite. May be repeated once for a maximum total of four credits.

Journalists discuss the economic, technological, sociological and ethical issues that challenge their profession.

293. Foreign Study
Either or both semesters. Credits and hours by arrangement. May be repeated for credit with permission of Department Head. Consent of Department Head required before the student’s departure. May count toward the major with consent of the advisor. Croteau.

295. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

297. Supervised Field Internship
Either semester. One to three credits. Hours by arrangement. Prerequisite: JOUR 200, 201 and 220. Open only with consent of Department Head. Croteau.

Students research, report and write for newspapers, news departments of radio and television stations, and public relations offices under supervision of professionals.

298. Special Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

299. Independent Study
Either semester. Credits and hours by arrangement. With a change in content, may be repeated for credit. Prerequisites and recommended preparation vary.

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Japanese (JAPN)

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JAPANESE 151