

## Accounting and Management Information Systems

### 211 Introduction to Accounting U 5

Preparation and use of accounting reports for business entities; focus on uses of accounting for external reporting, emphasizing accounting as a provider of financial information.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq or concur: Econ 200 or equiv. Not open to students with credit for 201 or 310 or equiv. This course is available for EM credit.

### 212 Introduction to Accounting U 5

The uses of accounting reports in management decisions and in control of business operations; focus is on the internal use of accounting information.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 211 or equiv; and Econ 200 or equiv. Not open to students with credit for 201 or 310 or equiv. This course is available for EM credit.

### 310 Foundations of Accounting U 5

A survey of accounting for non-business students; financial statements and analysis; accounting for assets, liabilities and owners equity; and elements of managerial accounting.

Su, Au, Wi, Sp Qtrs. 1 2-hr cl. Prereq: Math 130; Econ 200 and CS&E 100 or equivalents. Not open to students with credit for Acct&MIS 201, 211 or 212 or to students enrolled in the BSBA program. Credit does not count toward the BSBA degree.

### 525 Cost Accounting U G 5

Managerial decision making in organizations with an emphasis on the use of financial data; theory and practice of management control.

Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 521 (or 212 and Math 152) and Bus-Mgt 330 and 331 and Bus Adm 499; or permission of instructor.

## African-American and African Studies

### 201 Introduction to African-American and African Studies U 5

Introduction to scholarly study of Black experience from the 15th century to the present, focusing on patterns of resistance, adaptation and cultural diversity.

Not open to students with credit for 101. GEC soc sci individuals and groups course.

### 251 Introduction to African Literature U 5

An assessment of the oral prose tradition and written prose of African literature; specific emphasis placed on student reading from primary sources.

GEC arts and hums lit course.

### 323 History of African-Americans

Cross-listed in History.

#### 323.01 History of African-Americans in the Age of Slavery U 5

Origins of modern slavery; its development in the U.S.; the evolution of African-American life and culture from 1619 to the end of the Civil War.

Au, Wi Qtrs. Not open to students with credit for 223 or History 223, or 260.

#### 323.02 History of African-Americans from Emancipation to the Present U 5

The rise of debt peonage among blacks; the formation of the northern ghetto; the Civil Rights Movement and beyond.

Not open to students with credit for 224, 238, or History 224, 260, or 323.02.

## Anatomy

### 199 Basic Human Anatomy

The basics of human anatomy supplemented by computer-assisted instruction and demonstrations of human material.

4 1-hr cl, 1 2-hr lab. Not open to students with credit for 200.

#### 199.01 Basic Human Anatomy U 5

Au, Wi, Sp Qtrs. Prereq: Health Sciences students in CED and ASC.

## Anthropology

### 200 Introduction to Physical Anthropology U 5

A scientific examination of humans as a biological and cultural organism based on primate evolution from living and fossil evidence; evolutionary theory and population adaptability.

Su, Au, Wi, Sp Qtrs. 5 cl. H200 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Biology 101 or equiv. Not open to students with credit for 251. NS Admis Cond course.

GEC bio sci course.

### 202 Peoples and Cultures: An introduction to Cultural Anthropology U 5

Comparative survey of traditional and contemporary peoples in the several world culture regions; culture concepts; study of selected topics.

Su, Au, Wi, Sp Qtrs. 5 cl. H202 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC soc sci individuals and groups course. SS Admis Cond course.

## Art

### 200 Concepts and Issues in Art U 2

An orientation for new art students and a survey of art making with an emphasis on contemporary works.

Su, Au, Wi, Sp Qtrs. 2 cl. Not open to students with credit for 162.

### 205 Beginning Drawing U 5

An introduction to basic freehand drawing, exploration of a range of drawing methods, media, concepts; emphasis on drawing from observation.

Su, Au, Wi, Sp Qtrs. 1 cl, 3 3-hr labs. H205 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 170. GEC arts and hums VPA course. VPA Admis Cond course.

### 206 Visual Studies: Two Dimensional Art U 5

Basic concepts of two-dimensional art dealing with visual structure, process, content, and invention.

Su, Au, Wi, Sp Qtrs. 3 3-hr labs. H206 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 172. GEC arts and hums VPA course. VPA Admis Cond course.

### 207 Visual Studies: Three-Dimensional Art U 5

Basic concepts of three-dimensional art dealing with the organization of space and form, using a variety of materials, processes, tools.

Su, Au, Wi, Sp Qtrs. 3 3-hr labs. Prereq or concur: 172 or 206. Not open to students with credit for 182.

### 208 Visual Studies: Four Dimensional Art Real and Recorded Time U 3

Introduction to basic concepts of real time and recorded time-based artworks using a variety of processes and media.

Au, Wi, Sp Qtrs. 3 2-hr cl. Prereq: 170 or 205, 172 or 206, and 182 or 207. Not open to students with credit for 260.

### 300 Introduction to Photography

Introduction to photographic theory, practice, and aesthetics with image production and critique.

2 2-hr cl and 1 1-hr lecture. GEC arts and hums VPA course. VPA Admis Cond course.

#### 300.01 Film Camera U 5

Not open to students with credit for 201 or 300 or 300.02. Students must supply 35mm adjustable camera, color film and processing of prints.

#### 300.02 Digital Camera U 5

H300.02 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 201 or 300 or 300.01. Students must supply adjustable digital camera (4 mp or greater), and processing of prints.

### 340 Fundamentals of Ceramic Art: Handforming U 5

Introduction to the art phases of the ceramic field; laboratory practice in the hand forming process.

Au, Wi, Sp Qtrs. 2 3-hr labs. H340 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 240. GEC arts and hums VPA course. VPA Admis Cond course.

### 350 Digital Image Manipulation I U 5

Introduction to creating and manipulating graphic images on Macintosh using Photoshop, Painter; includes input/output of student work as applies to art students.

Au, Wi, Sp Qtrs. 2 3-hr cl/lab. Not open to students with credit for 450.

### 370 Beginning Life Drawing U 5

Drawing from the human figure; discussion of drawing as related to significant traditions; lectures and demonstrations.

Su, Au, Wi, Sp Qtrs. 2 3-hr labs, 9 hrs arr. Prereq: 170 or 205, and 172 or 206. Not open to students with credit for 270.

## Arts and Sciences

### 101 First- or Second-Year Seminar U 1

Seminars on varying topics taught by University faculty.

H101 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Fr or soph standing or permission of instructor. Repeatable to a maximum of 15 cr hrs. This course is graded S/U.

## Astronomy

### 161 Introduction to Solar System Astronomy U 5

Physical nature of the sun and its family of planets, satellites, comets and minor bodies; gravitation, light, and telescopes.

Su, Au, Wi, Sp Qtrs. 5 cl or 3 1.5-hr cl. H161 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 161: Math 075 or 076 or 102, or Math Placement Level R. Prereq for H161: Math 116 or 148. Not open to students with credit for 171. Not intended for ASC BS students. Not recommended for students who plan to continue in astronomy or physics. This course is available for EM credit. GEC phys sci course. NS Admis Cond course.

## Biology

### 101 Introductory Biology U 5

Basic principles of biology; topics include nature of science, organismal diversity, evolution, ecology, genetics, reproduction, cell structure and function.

Su, Au, Wi, Sp Qtrs. 3 cl, 1 3-hr rec/lab; or 2 1.5-hr cl, 1 3-hr rec/lab. Prereq: Math 075 or 076 or 104 or Mathematics Placement Level R. Not open to students with credit for 113 or H115, or Entomol 101, or PCMB 101. Not intended for the student pursuing an undergraduate major in one of the biological sciences. This course is available for EM credit. GEC bio sci course. E101 may be available for honors embedded experience at the Newark Campus.

### 102 Human Biology U 5

Exploration of human biology; topics include structure and physiological function, reproduction and development, genetics and disease, ecology and evolution.

Su, Au, Wi, Sp Qtrs. 3 cl or 2 1.5-hr cl, 1 2-hr film/video presentation, 1 rec. Prereq: 101. Not open to students with credit for 114 or H116. Not intended for the student pursuing an undergraduate major in one of the biological sciences. This course is available for EM credit. GEC bio sci course.

### 113 Biological Sciences: Energy Transfer and Development U 5

Exploration of biology and biological principles; evolution and the origin of life, cell structure and function, bioenergetics, and genetics. A broad introduction to biology comprises both Biology 113 and 114.

Su, Au, Wi, Sp Qtrs. 3 cl or 2 1.5-hr cl, 1 3-hr lab, 1-hr rec. Prereq: Chem 101 or 121 or H201. Not open to students with credit for H115. This course and 114 provide a comprehensive two-qtr sequence in general biology. This course is available for EM credit. GEC bio sci course. NS Admis Cond course.

### 114 Biological Sciences: Form, Function, Diversity, and Ecology U 5

Exploration of biology and biological principles; evolution and speciation, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 113 and 114.

Au, Wi, Sp Qtrs. 4 cl, 1 3-hr lab. Prereq: 113. Not open to students with credit for H116. This course is available for EM credit. GEC bio sci course. NS Admis Cond course.

## Business Administration

### 499 Business Skills and Environment I U 4

Introduction to the environment of business and development of skills preparatory to the multi-disciplinary upper division curriculum in business.

Su, Au, Wi, Sp Qtrs. 1 hr lec, 2 2-hr rec. H499 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Soph standing in the Business Administration major. This course is a prerequisite for specialization courses in Business.

### 555 Introduction to International Business U 4

Basic coverage of world trade and investment problems, and introduction to multinational corporation strategies and the various types of environments in which they do business.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: Econ 201 or 400. H555: Open only to students in the Honors Business Administration cohort Program.

## Business Administration: Finance

### 420 Foundations of Finance U 4

Survey of topics in finance for non-business students including: discussion of investment, time value of money, financial markets, financial institutions, risk

and return, corporate and international business.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: Acct&MIS 310, Math 130 or equiv; Econ 200 and CS&E 100 or equivs. Not open to students with credit for Bus-Fin 494 (Spring 2001) or 620; or to students enrolled in the BSBA program. Credit does not count toward the BSBA degree.

### 510 Legal Environment of Business U 4

An introduction to American legal institutions and sources of law and an analysis of basic concepts of public and private law related to business decisions.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. H510 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Jr standing. Honors section open only to students in the Honors Business Administration cohort Program.

### 620 Business Finance U G 4

Introduction to financial management of business firms; financial analysis, planning and control; working capital management; capital investment decisions and required rates of return; capital structure decisions and sources of financing.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: Econ 200 and 201, or equivs; and Acct&MIS 201 or 212 or equiv. H620: Open only to students in the Honors Business Administration cohort Program. This course is available for EM credit.

### 722 Investment Management U G 4

Investment objectives; types of investments and their relative merits; security prices and yields; investment programs; and taxes.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 620 or equiv and Bus-Mgt 330 and 331 and Bus Adm 499; or permission of instructor.

## Business Administration: Management and Human Resources

### 400 Foundations of Management and Human Resources U 4

Survey of topics in management and human resources for non-business students. The material includes a discussion of organizational behavior, human resource management and labor markets.

Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: Math 130, CS&E 100, and Econ 200 or equivs. Not open to students with credit for 500, 500X or 701; or to students enrolled in the College of Business. Credit does not count toward the BSBA degree.

### 701 Managing Individuals in Organizations: Organizational Behavior and Human Resources U 5

Principles for managing the performance of individuals and groups in organizations; introduction to organizational behavior theory and its application to staffing, training, compensation, and appraisal.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: Jr standing. Not open to students with credit for 400, H701: Open only to students in the Honors Business Administration cohort Program.

### 769 Strategic Human Resource Management U 4

Examination of a strategic perspective for managing employees that emphasizes the use of ethical practices and evaluates how practices fit together and with organizational objectives.

Au Qtr. 2 2-hr cl. Prereq: 701 or 400; or permission of instructor.

## Business Administration: Management Sciences

### 330 Decision Sciences: Statistical Techniques U 5

Examination of the use of statistical techniques in managerial decision-making processes; confidence intervals, hypothesis testing, simple and multiple regression, quality control.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: Cptr/Inf 200 and Stat 133 or equiv.

### 331 Decision Sciences: Operations Research, Modeling and Applications U 4

Examination of the use of operations research models in managerial decision making processes: linear programming, decision analysis and simulation applications. Emphasis on formulation and interpretation of models; supported by spreadsheet based software.

Su, Au, Wi, Sp Qtrs. 2-2-hr cl. Prereq: Cptr/Inf 200 and Stat 133 or equiv.

### 430 Foundations of Operations Management U 4

A survey of operations management for non-business students including discussion of operations management issues in both manufacturing and service organizations including management and purchasing.

Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: Math 130, CS&E 100, and Econ 200 or equivs. Not open to students with credit for Bus-Mgt 630; or for students enrolled in the College of Business. Credit does not count toward the BSBA degree.

### 630 Introduction to Operations Management: Improving Competitiveness in Organizations U G 4

Key operating issues in service and manufacturing organizations that have strategic and tactical implications. Students participate in discussions relating current business events to operations management and case analysis.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: Jr standing and Stat 133 or equiv. H630: Open only to students in the Honors Business Administration cohort Program.

### 732 Operations Planning and Control U G 4

An analysis of the planning and control of materials as they flow within an organization; topics include production planning, material requirements planning (MRP), capacity management, master production scheduling, and just-in-time techniques.

Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: 330, 331, 630 and Bus Adm 499, or permission of instructor.

## Business Administration: Marketing and Logistics

### 450 Foundations of Marketing Management U 4

A survey of marketing for non-business students including discussion of marketing practice tools and concepts and their applications in profit and non-profit organizations.

Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: Math 130; Econ 200 and CS&E 100 or equivs. Not open to students with credit for Bus-M&L 494 (Summer 2001) or 650; or to students enrolled in the BSBA program. Credit does not count toward the BSBA degree.

### 650 Marketing U G 4

Critical survey of field of marketing; structure, functions, policies, costs, and problems analyzed from consumer and other viewpoints; emphasis on principles, trends, and quantitative expression.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: Econ 200 or equiv. H650: Open only to students in the Honors Business Administration cohort Program.

### 751 Managerial Marketing U G 4

Marketing policies and strategy; organization, demand analysis, product planning, pricing, physical distribution, and promotion from a managerial viewpoint.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Prereq: 650 or equiv; and Bus-Mgt 330 and 331 and Bus Adm 499.

## Chemistry

### 101 Elementary Chemistry U 5

Introductory general chemistry for non-science majors, including dimensional analysis, atomic structure, bonding, chemical reactions, states of matter, solutions, chemical equilibrium, and acids and bases.

Su, Au, Wi, Sp Qtrs. 4 cl, 3 lab hrs. Prereq: Eligibility to enroll in Math 116. Not open to students with credit for 121 or H201. Safety glasses must be worn in lab. This course is available for EM credit with permission. GEC phys sci course. NS Admis Cond course.

### 102 Elementary Chemistry U 5

Introductory organic and biological chemistry, including saturated and unsaturated hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, stereoisomerism, carbohydrates, lipids, proteins, and nucleic acids.

Au, Wi, Sp Qtrs. 4 cl, 3 lab hrs. Prereq: 101. Safety glasses must be worn in lab. This course is available for EM credit with permission. GEC phys sci course. NS Admis Cond course.

### 121 General Chemistry U 5

First course for science majors and engineering students, covering dimensional analysis, atomic structure, the mole, stoichiometry, chemical reactions, thermochemistry, electron configuration, periodicity, bonding, and molecular structure.

Su, Au, Wi, Sp Qtrs. 4 cl, 3 lab hrs. Prereq: One unit of high school chem and eligibility to enroll in Math 150. Not open to students with credit for H201. Safety glasses must be worn in lab. This course is available for EM credit with permission. GEC phys sci course. NS Admis Cond course.

### 122 General Chemistry U 5

Continuation of 121 for science majors, covering acids and bases, redox reactions, gases, liquids, solids, solutions, colligative properties, kinetics, and chemical equilibrium.

Su, Au, Wi, Sp Qtrs. 4 cl, 3 lab hrs. Prereq: 121 or completion of 101 with a grade of A or A- and eligibility to enroll in Math 150. Not open to students with credit for 125 or H202. Safety glasses must be worn in lab. This course is available for EM credit with permission. GEC phys sci course. NS Admis Cond course.

### 123 General Chemistry U 5

Continuation of 122 for science majors, covering solubility and ionic equilibria, qualitative analysis, thermodynamics, electrochemistry, descriptive chemistry, coordination compounds, and nuclear chemistry.

Su, Au, Wi, Sp Qtrs. 3 cl, 6 lab hrs. Prereq: 122. Safety glasses must be worn in lab. This course is available for EM credit with permission. GEC phys sci course.

## Communication

### 101 History of Human Communication U 5

History of human communication from beginning of spoken and written communication to modern mediated and mass communication.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Not open to students with credit for J Com 101. GEC soc sci individuals and groups course.

### 200 Communication in Society U 5

Role of communication in society; forms, strategies, theories and issues; interpersonal, group, organizations, public and mass communication.

Su, Au, Wi, Sp Qtrs. 2.2-hr cl. Not open to students with credit for J Com 200. GEC soc sci individuals and groups course.

### 321 Principles of Effective Public Speaking U 5

Introductory course in critical thinking and public speaking; how to analyze and organize information for oral presentations; basics of public speaking for majors and non-majors.

Su, Au, Wi, Sp Qtrs. 2.2-hr rec. Not open to students with credit for J Com 321.

### 367 Persuasive Communication U 5

Principles of persuasion as reasoned discourse.

2.2-hr cl. H367 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: English 110, 110.01, 110.02, 110.03 or equiv, and soph standing or above. Not open to students with credit for J Com 367. GEC second writing course.

## Comparative Studies

### 201 Literature and Society U 5

Study of relationships among politics, society, and literature; analysis of social and political elements of literature and film from diverse cultures and historical periods.

H201 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: English 110 or equiv. GEC arts and hums lit course.

### 203 Literature and the Self U 5

Study of relationships between psychology and literature; analysis of psychological concepts and processes as represented in literature and film of diverse cultures and historical periods.

H203 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: English 110 or equiv. GEC arts and hums lit course.

## Computer Science and Engineering

### 100 Introduction to Computing Technology U 3

A course of general interest giving experience with personal computer software, e.g., word processors and spreadsheets; provides fundamental computer literacy; neither teaches nor requires computer programming.

Su, Au, Wi, Sp Qtrs. 3 1-hr lec. Not open to students with credit for 101 or 200.

### 101 Computer-Assisted Problem Solving U 4

Problem solving techniques using productivity software; spreadsheets, formulas, conditional logic; relational databases, relational algebra; word processing; data presentation; graphics.

Su, Au, Wi, Sp Qtrs. 3 1-hr lec, 1 2-hr lab. Prereq: Mathematics placement level R or higher; or Math 075 or higher. Not open to students with credit for 200. GEC course.

### 200 Computer Assisted Problem Solving for Business U 5

Problem solving emphasizing spreadsheets and conditional logic; using productivity software; relational databases, word processing, data presentation, object linking and embedding, and communication systems.

Su, Au, Wi, Sp Qtrs. 4 1-hr lec, 1 2-hr lab. Prereq: Math 116, 130, or 148. Not open to students with credit for 101.

## Dance

### 201 Introduction to Dance I

An introductory course in dance.

Su, Au, Wi, Sp Qtrs. Arr. VPA Admis Cond course.

#### 201.01 Modern Technique U 1-5

Repeatable to a maximum of 12 cr hrs.

#### 201.03 Jazz U 1-5

Repeatable to a maximum of 12 cr hrs.

#### 201.06 Hip hop Dance U 1-5

Introductory course in Hip hop dance.

2 1.5-hr cl or 3 1.0-hr cl. Repeatable to a maximum of 12 cr hrs.

### 601 Supplemental Studies in Dance

Foundations in dance.

Su, Au, Wi, Sp Qtrs. 2 or more lab hrs. Prereq: Permission of instructor.

#### 601.08 Other U G 1-5

Repeatable to a maximum of 12 cr hrs.

## Earth Sciences

### 100 Planet Earth: How it Works U 5

The materials of the Earth's crust, the processes that produce and modify them, and the development of the Earth and its life forms through time.

Su, Au, Wi, Sp Qtrs. 4 cl, 1 2-hr lab; or 2 2-hr cl, 1 2-hr lab. Not open to students with credit for Geol Sci 100. Not intended for ASC BS students. This course is available for EM credit. GEC phys sci course. NS Admis Cond course.

### 203 Environmental Geoscience U 5

Concepts and challenges of geological hazards and resources, environmental pollution and health, regional and long-range planning, and global change and sustainability.

Su, Au, Sp Qtrs. 4 cl, 1 2-hr lab; or 2 2-hr cl, 1 2-hr lab. Prereq: 100 or 121 or Geol Sci 100 or 121. Not open to students with credit for Geol Sci 203. GEC phys sci course. NS Admis Cond course.

## Economics

### 200 Principles of Microeconomics U 5

Introduction to economic theory: supply and demand for goods and services; market structure; the distribution of income.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. H200 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. First required course for students planning to take 500-level courses in econ. GEC soc sci human, natural, and economic resources course. SS Admis Cond course.

### 201 Principles of Macroeconomics U 5

Theory of national income determination; economic fluctuations; money; government policy; international economics.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. H201 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 400. GEC soc sci organizations and politics course.

### 501 Intermediate Microeconomic Theory

Theory of consumer behavior; theory of the firm; costs and production; factor price determination; general equilibrium.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 200 and 201 or 400, or equivs.

#### 501.01 Intermediate Microeconomic Theory U G 5

### 502 Intermediate Macroeconomic Theory

Analysis of the determinants of national output, income and employment levels; theory of economic growth and progressive equilibrium in an economy.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 200 and 201 or 400, or equivs.

#### 502.01 Intermediate Macroeconomic Theory U G 5

### 520 Money and Banking U G 5

Organization, operation, and economic significance of our monetary and banking system; special reference to current conditions and problems.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. H520 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: 200 and 201 or 400, or equivs.

## Education: Educational Policy and Leadership

### 259 Individual Learning and Motivation: Strategies for Success in College U 5

Teaches learning and motivation strategies to improve study skills and increase college success. Students learn how to manage their time and improve their

grades.

2 2-hr cl, arr. 259D indicates course is taught at a distance via the Internet.

### 270 Seminars in Career and Self Development

Examination of self in relation to educational and career goals; self assessment, decision making, identification, and use of campus resources, employability, and work adjustment skills.

#### 270.04 Career Development and Leadership Training in Higher Education U 3

Designed to explore possible careers in higher education and to conduct leadership training in terms of higher educational functions and organizations.

### 306 School and Society

Use of concepts and methods of history, philosophy, and the social sciences to grasp the interrelationship between society and education.

#### 306.07 General Student Body U 5

#### 306.20 Middle Childhood Education U 5

#### 306.70 Early Childhood Education U 5

### 370 Computers in the Classroom: An Introduction U 4

An introduction to educational computing.

1 2.5-hr cl, 1 2.75-hr lab. Not open to students with credit for Ed-P&L 671.

### 600 Basic Media Skills U G 1

Self-instructional modules and activities emphasizing the selection, utilization, and preparation of teaching material.

Prereq: Admission to a teacher education program certification area or permission of instructor. Not open to students with credit for Ed-T&P 600. Cost of production materials must be borne by the student. This course is graded S/U.

### 718 Pedagogical Studies

Key research studies and major perspectives on classroom pedagogy including effective classroom management, teaching and learning, and school functioning.

Prereq: EDU T&L 702 and 704. Open to students enrolled in the MED program.

#### 718.20 Middle Childhood Education G 3

## Education: Physical Activity and Educational Services

### 137 Sport for the Spectator U 3

A study of the great American spectator sports including football, basketball, baseball, ice hockey, golf, tennis, and others which meet the interests of the class.

### 145 Bowling

Students must provide bowling shoes (rentals available) and have ID card.

#### 145.01 Bowling I U 1

Introductory skills and knowledge essential for bowling.

### 147 Conditioning Principles U 1

Students will have the opportunity to study conditioning materials and principles. Register for desired concurrent sections using 148 decimal designation.

1 1-hr class. Prereq: Must take 148.01 or 148.02 or 148.03 or 148.04 or 148.05 or 148.06 concurrently.

### 148 Conditioning Activities

Students will have the opportunity to experience a conditioning activity of their choice.

3 1-hr lab. Prereq: Must take 147 concurrently.

#### 148.05 Cardio Equipment Training U 1

Prereq: Must be taken concurrently with 147.

### 149 Lifetime Fitness Programs

Continued application of the principles covered in 147 and 148.

Prereq: Must have taken 147.

#### 149.05 Cardio Equipment Training U 1

### 157 Golf

#### 157.01 Golf I U 1

Introductory skills and knowledge preparatory to course play with emphasis on irons.

#### 157.02 Golf II U 1

Continuation of 157.01 with emphasis on woods and on introduction to course play.

Prereq: 157.01 or equiv. Advanced players should elect 631.06.

**169 Martial Art Forms**

An exploration and orientation to Eastern movement martial art forms.

**169.07 Karate I U 1**

Introduction to the fundamental forms and techniques of Karate.

**169.13 Tae Kwon Do I U 1**

Beginning course in the Korean martial art form; includes etiquette, basic blocking, thrusting and kicking techniques, and self defense.

**172 Self Defense**

Skills and understandings essential to defend oneself against an aggressor with emphasis on avoiding attack.

**172.01 Self Defense Women U 1**

Limited to women only.

**172.02 Self Defense Men U 1****175 Softball**

Skills and knowledge necessary for playing softball.

**175.01 Women's Slo Pitch I U 1****175.06 Men's Slo Pitch I U 1****191 Volleyball**

Advanced students should elect 631.14.

**191.01 Volleyball I U 2**

Introduction to power volleyball.

**191.02 Volleyball II U 2**

Continuation of power volleyball fundamental skill perfection and game strategies woven to produce an intermediate playing experience.

Prereq: 191.01 or equiv.

**197 Competitive Club Sports U 1**

Participation as a member of a competitive club sport team.

Prereq: Prior experience on at least one competitive club sport team and soph standing. Repeatable to a maximum of 3 cr hrs. Preregistration with dept required. This course is graded S/U.

**262 Coaching the Young Athlete U 3**

Skills and knowledges essential to planning, coaching, and supervising competitive sports programs which are consistent with the needs of children.

**270 Seminars in Career and Self Development**

Examination of self in relation to educational and career goals; self assessment, decision making, identification and use of campus resources, employability, and work adjustment skills.

Repeatable hrs, including cr hrs in Ed-P&L 270.04; with a maximum of 3 cr hrs in any decimal subdivision.

**270.01 Self-Career Development U 3**

Designed to provide opportunities for self-exploration and skill development; exploration of and clarification of vocational and educational interests.

This course is graded S/U.

**271 Seminar in Exploring Helping Relationships: Teaching/Learning U 3**

Focus on self development, decision making, world of work for students exploring careers through placement in educational, and community agency settings. Repeatable to a maximum with special written permission, when unusual circumstances warrant.

Repeatable to a maximum of 6 cr hrs. To be taken concurrently with field experience 289.01.

**289 Directed Field Experience**

Professional service in school or community settings.

Preregistration with school required.

**289.01 Intro Experience in a School System U 2-5**

Repeatable to a maximum of 20 cr hrs. This course is graded S/U.

**650 Introduction to Exceptional Children U G 3**

An overview of the education of exceptional learners including a discussion of their characteristics and a review of historical approaches to their education and of contemporary educational practices.

Not open to students with credit for Psych 570.

## Education: Teaching and Learning

**460 Elementary Education: Child Guidance U 4**

Designed to develop an understanding of child growth and development principles in relation to instruction.

**467 Introduction to Children's Literature U 3**

Study of literature for children with emphasis on standards for selecting materials with reference to the interests, needs, and abilities at different age levels.

**489 Advanced Field Experience**

Directed field experience emphasizing appropriate teaching strategies for

different school age children and school settings.

Prereq: Admission to appropriate teacher education program.

**489.10 Elementary Education U 3-5**

Repeatable to a maximum of 15 cr hrs.

**601 Foundations of Middle Childhood Education: Theory, Philosophy, and Organization**

Examination of the history, rationale, philosophy, organization, and distinctive components fundamental to middle childhood education.

**601.20 Middle Childhood Education U G 3****603 Interdisciplinary Teaching and Learning for Middle Childhood**

Focus on the interrelatedness of the disciplines and the design, implementation, and assessment of curriculum and pedagogy for middle childhood learners.

**603.20 Middle Childhood Education U G 3****607 Writing Course in Early and Middle Childhood Education U 5**

Designed to help students reflect critically, both orally and in writing, on the social, political, and cultural contexts that influence education in today's society.

**656 Literature for Adolescents U G 3**

Literature for individual, group, and whole-class reading in junior and senior high schools; interest factors, readability, and literary value as criteria for selection; bibliographic aids.

**668 Reading Foundations**

Introduction to basic concepts about the reading process, learning to read, social/cultural factors affecting literacy development and effective instruction.

Prereq: Jr standing or above.

**668.07 General Student Body U G 4****669 Understanding Phonics and Its Role in Reading Instruction**

Detailed examination of how English maps spellings to pronunciations, the role of phonics knowledge in learning to read, and effective assessment and instruction.

Prereq: 668 or 668.07 and 467 or 817; jr standing or above.

**669.07 General Student Body U G 5****674 Family Participation in Early Childhood School Programs**

The purposes and importance of family involvement in early childhood school programs, types of programs, resources, methods, and curricula.

**674.07 General Student Body U G 3****693 Individual Studies**

Prereq: Permission of instructor. A total of not more than 30 cr hrs of individual study (any 693) will apply toward graduation for undergrad students, or 15 cr hrs for the master's degree and 30 cr hrs for the doctoral degree.

**693.10 Elementary Education U G 1-4**

Repeatable to a maximum of 30 cr hrs. This course is graded S/U.

**702 Language Arts for Children Ages 3 to 9**

Examination of children's oral and written language development and related theoretical understandings instrumental for teaching language arts.

Prereq: Admission to Early Childhood M Ed program.

**702.70 Early Childhood Education G 3****705 Reading Methods for Early Childhood**

Focus on the acquisition and development of reading skills in early childhood. (Pre-K-3rd grade).

Prereq: New Phonics and Reading Foundations Courses.

**705.07 General Student Body G 3****705.70 Early Childhood Development G 3****706 Teaching and Learning Language Arts for Middle Childhood**

Focus on principles and practices for facilitating the effective development and use of oral and written language by children in grades 4-9.

**706.20 Middle Childhood Education G 3****708 Teaching and Learning of Mathematics in Grades PreK-3, Part I**

Examination of instructional strategies that facilitate the teaching and learning of mathematics in grades Pre K-3.

Prereq: 702 or 702.07 or 702.70 and 704 or 704.07 or 704.20 or 704.70.

**708.70 Early Childhood Development G 3****709 Teaching and Learning of Mathematics for Middle Childhood**

Examination of instructional strategies that facilitate the teaching and learning of mathematics for middle childhood.

Prereq: 702 or 702.07 or 702.70, 704 or 704.07 or 704.20 or 704.70, and 708 or 708.07 or 708.70.

**709.20 Middle Childhood Education G 3**

**713 Teaching and Learning of Mathematics in Grades PreK-3, Part II**

This course is designed to improve pre-service teachers' understanding and capacity to use national and state standards, learning theories, research based instructional methods, formative and summative assessment.

Wi Qtr. 2.5 hr wk. Prereq: 708.07 or 708.70 and admission to ITL Early Childhood MEd or permission of instructor.

**713.70 Early Childhood Development G 3**

**723 Early Childhood Pedagogy I**

Examines teaching and learning in pre-K through grade 3 with a focus on inclusive and diverse pre-K and kindergarten settings.

Open to Early Childhood MEd students and others by permission. Pedagogy I and II are sequenced and required in the Early Childhood Teacher Education Program.

**723.70 Early Childhood Education G 3**

**724 Early Childhood Pedagogy II**

Examines teaching and learning in pre-K through grade 3 with a focus on inclusive and diverse first through third grade settings.

Prereq: 723 or 723.07 or 723.70. Open to Early Childhood MEd students and others by permission. Pedagogy I and II are sequenced and required in the Early Childhood Teacher Education Program.

**724.70 Early Childhood Education G 3**

**727 Special Topics in Education**

Special topics for professional educators and graduate students in selected areas; designed to provide the opportunity to update professional skills and review current research developments.

Prereq: Grad standing or registration in one of the professional schools. Repeatable to a maximum of 20 cr hrs.

**727.27 Science Education G 1-5**

Repeatable to a maximum of 20 cr hrs. This course is graded S/U.

**729 Teaching and Learning of Science in Grades Pre K-3 Part I**

Exploration of contemporary alternatives in elementary science education and the development of knowledge and skills for teaching and learning in grades Pre K-3.

Prereq: 702 or 702.07 or 702.70 and 704 or 704.07 or 704.20 or 704.70.

**729.70 Early Childhood Education G 3**

**731 Teaching and Learning of Science for Middle Childhood**

Science methods course required for preservice teachers seeking certification to teach at the middle childhood level.

Prereq: Admission to Middle Childhood M Ed program.

**731.20 Middle Childhood Education G 3**

**737 Teaching and Learning of Social Studies in Grades Pre K-3**

Exploration of current theories in the teaching and learning of social studies in grades Pre K-3.

Prereq: 702 or 702.07 or 702.70 and 704 or 704.07 or 704.20 or 704.70.

**737.70 Early Childhood Education G 3**

**738 Teaching and Learning of Social Studies in Middle Childhood**

Study of current theories in the teaching and learning of the historical, ethical, cultural, geographic, economic, and socio-political aspects of social studies in Middle Childhood.

Prereq: 702 or 702.07 or 702.70, 704 or 704.07 or 704.20 or 704.70 and 737 or 737.07 or 737.70.

**738.20 Middle Childhood Education G 3**

**743 Teaching and Learning of Science in Grades PreK-3 Part II**

This course will facilitate an understanding of pedagogies, research, and inquiry approaches to further meet state and national standards.

Wi Qtr. 2.5-hr cl. Prereq: 729.07 or 729.70 and admission to ITL Early Childhood MEd or permission of instructor.

**743.70 Early Childhood Education G 3**

**809 Inclusion: Philosophical, Social and Practice Issues**

Philosophical, social, and practice issues related to the inclusion of students with special needs in the P-12 general education classroom.

Prereq: Grad standing.

**809.20 Middle Childhood Education G 3**

**809.70 Early Childhood Education G 3**

**815 Teachers and Teaching: The Changing Context in Equity, Diversity, and Exceptionality**

Examination of how attitudes, assumptions, and expectations within socially diverse classrooms influence the behaviors of educators, parents, and pupils. Case method: Analyzing experiences of teachers.

Prereq: Permission of instructor.

**815.20 Middle Childhood Education G 3**

**815.70 Early Childhood Education G 3**

**816 Language Arts in the Elementary School G 3**

Problems, research, and current methods of teaching the four major areas

of the language arts in the elementary school; listening, speaking, reading, and writing.

**818 Foundations of Education**

Study of phenomena that undergird or bear on practice in education; topics include the family, learners, teachers and teaching, and schooling.

**818.07 General Student Body G 3**

**870 Graduate Studies in Integrated Teaching and Learning G 3**

Designed to introduce the study of integrated teaching and learning, familiarize students with scholars in this field and assist students in planning their masters program.

Prereq: Admission into MA program in ITL.

**884 Planned Field Experience**

Planned field experience under supervision in a P-12 classroom.

Prereq: Written permission of area adviser.

**884.10 Elementary Education G 1-20**

Repeatable to a maximum of 25 cr hrs. This course is graded S/U.

**884.20 Middle Childhood Education G 1-20**

Repeatable to a maximum of 25 cr hrs. This course is graded S/U.

**884.70 Early Childhood Education G 1-20**

Repeatable to a maximum of 25 cr hrs. This course is graded S/U.

**885 Supervised Student Teaching Internship**

Student teaching internship in a P-12 classroom where students assume major teaching responsibilities under the guidance of a cooperating teacher and university supervisor.

300 field contact hrs/qr. Prereq: Written permission of instructor.

**885.20 Middle Childhood Education G 5-15**

Repeatable to a maximum of 30 cr hrs. This course is graded S/U.

**885.70 Early Childhood Education G 5-15**

Repeatable to a maximum of 30 cr hrs. This course is graded S/U.

**886 Reflective Seminar**

Seminar held in conjunction with field experience or student teaching internship. The goals are to process, reflect upon and enhance benefits of the school experiences.

Prereq: Open to M. Ed Students only.

**886.20 Middle Childhood Education G 1-5**

Repeatable to a maximum of 15 cr hrs. This course is graded S/U.

**886.70 Early Childhood Education G 1-5**

Repeatable to a maximum of 15 cr hrs. This course is graded S/U.

**887 Advanced Field Experience**

Field or research experience in a P-12 school, higher education or other educational setting, agency, or cross-cultural settings.

**887.10 Elementary Education G 1-15**

Repeatable to a maximum of 25 cr hrs. This course is graded S/U.

**888 Advanced Studies in Teaching and Learning with Drama G 3**

Advanced drama education theoretical principles, activities, and strategies.

Prereq: 777. Repeatable to a maximum of 6 cr hrs.

**893 Advanced Individual Studies**

Prereq: Permission of instructor. For thesis option, not more than 15 cr hrs of any 693 and/or 893 will apply toward the master's degree. For non-thesis option, not more than 20 cr hrs will apply. Not more than 30 cr hrs will apply toward the doctoral degree. This course is graded S/U.

**893.50 Integrated Teaching and Learning G 1-4**

Repeatable. This course is graded S/U.

**926 M.Ed Capstone Seminar**

Seminar to prepare M.Ed. students for the comprehensive written examination or approved alternative.

Prereq: Open to M.Ed. students only.

**926.20 Middle Childhood Education G 3**

**926.70 Early Childhood Education G 3**

Su, Au, Wi, Sp Qtrs. This course is graded S/U.

**928 M.A. Capstone Seminar**

Provides guidance for M.A. students working on final action research projects (or other approved projects), writing thesis proposals or preparing for the comprehensive examination.

**928.50 Integrated Teaching and Learning G 3**

## Engineering

### 186 Introduction to Engineering TII - Graphics Communications U 2

Introduction to three-dimensional visualization and presentation with freehand, manual, and CADD (computer aided drawing and design) methods.

Au, Wi Qtrs. 2 2-hr cl. Prereq: "K" credit for 185 or 187 or permission of instructor; Math 150 or concur. Not open to students with credit for 181, 182, or 183. Serves as a partial requirement, intended for transfer students, of the required 181-183 course sequence.

### 187 Introduction to Engineering TIII - Computer Aided Problem Solving U 2

Introduction to managing variables, importing and exporting data, performing calculations, generating plots, and developing and managing files using computer applications.

Wi, Sp Qtrs. 2 2-hr cl. Prereq: "K" credit for 185 or 186 or permission of instructor; Math 150 or concur. Not open to students with credit for 181, 182, or 183. Serves as a partial requirement, intended for transfer students, of the required 181-183 course sequence.

## English

### 109 Intensive Writing and Reading

5 cl or 2 2-hr cl. Credit may not count toward graduation in some degree programs.

#### 109.01 Intensive Writing and Reading I U 5

First course in a two-course sequence that provides intensive practice in integrating academic reading and writing.

Prereq: English Placement Test score of 6. Not open to students with credit for 052, 060, 110W, 110, or 111.

#### 109.02 Intensive Writing and Reading II U 5

Second course in a two-course sequence that provides intensive practice in integrating academic reading and writing.

Prereq: 109.01. Not open to students with credit for 053, 060, 110W, 110, or 111.

### 110 First-Year English Composition

Practice in the fundamentals of expository writing, as illustrated in the student's own writing and in the essays of professional writers.

No prereq except when testing determines 052, 053, 106, 107, 109.01, 109.02, 110.03 or EDU T&L 108.01 to be required. Not open to students with credit for 110, 110C, 110L, 110W, H110, 111, H111, or H167. This course is available for EM credit only through the AP program. GEC first writing course.

C-- Taught in a computer-assisted classroom.

#### 110.01 First-Year English Composition U 5

Prereq: English placement level 4 or 109.02 or EDU T&L 108.01. Not open to students with credit for 110, 110.02 or 110.03.

#### H110.01 Honors First-Year English Composition U 5

Intensive practice in the fundamentals of writing for selected students, as illustrated in the student's own writing and in the essays of professional writers.

Prereq: 28 or above on the English section of the ACT or 660 on the verbal section of the SAT. Not open to students with credit for 110, H110, 110.01, H110.02. GEC first writing course.

### 201 Selected Works of British Literature: Medieval through 1800 U 5

An introductory critical study of the works of major British writers from 800 to 1800.

H201 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 201: 110 or 111 or equiv. Prereq for H201: H110 or H111 or equiv or permission of instructor. 201 is required of non-honors English majors. GEC arts and hums lit course.

### 202 Selected Works of British Literature: 1800 to the Present U 5

An introductory critical study of works of major British writers of the 19th and 20th centuries.

H202 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 202: 110 or 111 or equiv. Prereq for H202: H110 or H111 or equiv or permission of instructor. Not open to students with credit for 284 or 285. 202 is required of non-honors English majors. GEC arts and hums lit course.

### 220 Introduction to Shakespeare U 5

Study of selected plays designed to give an understanding of drama as theatrical art and as an interpretation of fundamental human experience.

H220 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 220: 110 or 111 or equiv. Prereq for H220: H110 or H111 or equiv, and enrollment in an honors program. GEC arts and hums lit course.

### 260 Introduction to Poetry U 5

Designed to help students understand and appreciate poetry through intensive study of a representative group of poems.

H260 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC arts and hums lit course.

### 261 Introduction to Fiction U 5

Examination of the elements of fiction -- plot, character, setting, narrative, perspective, theme, etc. -- and their various interrelations; comparisons with nonfictional narrative may be included.

H261 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: English 110 or 111 or equiv. GEC arts and hums lit course.

### 262 Introduction to Drama U 5

A critical analysis of selected dramatic masterpieces from Greek antiquity to the present, designed to clarify the nature and major achievements of western dramatic art.

H262 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC arts and hums lit course.

### 263 Introduction to Film U 5

Introduction to methods of reading film texts by analyzing cinema as technique, as system, and as cultural project.

1 3-hr cl, 1 2-hr cl. GEC arts and hums VPA course.

### 265 Writing of Fiction I U 5

Practice in the writing of fiction; analysis and discussion of student work, with some attention to general methods of fiction and the publishing situation.

Repeatable to a maximum of 10 cr hrs.

### 268 Writing of Creative Nonfiction I U 5

Practice in the writing of creative nonfiction; analysis and discussion of student work, with reference to the general methods and scope of the genre.

Workshop-seminar. 2 2-hr cl. Prereq: English 110 or 111 or equiv. Repeatable to a maximum of 10 cr hrs.

### 271 Introduction to English Language Study U 5

An introduction to the grammar, history, and social and regional dialects of the English language.

Not open to students with credit for 570, 669, 671, 672; or Linguist 601. GEC arts and hums cultures and ideas course.

### 276 Introduction to Rhetoric U 5

Study of developments in rhetorical theory, teaching, criticism, and practice through examination of representative figures, texts, movements and periods from antiquity to the present.

2 2-hr cl. GEC arts and hums, cultures and ideas course.

### 280 The English Bible U 5

The Bible in English translation, with special attention to its literary qualities, conceptual content, and development within history.

H280 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC arts and hums lit course.

### 281 Introduction to African-American Literature U 5

A study of representative literary works by African-American writers from 1760 to the present.

Offered in cooperation with African-American and African Studies. GEC arts and hums lit and social diversity course.

### 290 Colonial and U.S. Literature to 1865 U 5

Introductory study of significant works of U.S. literature from its Colonial origins to 1865.

Either 290 or 291 is required of non-honors English majors. GEC arts and hums lit course.

### 291 U.S. Literature: 1865 to Present U 5

Introductory study of significant works of U.S. literature from 1865 to the present.

Prereq: 110 or 111 or equiv. Either 290 or 291 is required of non-honors English majors. GEC arts and hums lit course.

### 367 Intermediate Essay Writing

Prereq for 367.01, 367.02, 367.03, 367.04, 367.05, 367.06, 367.07: Credit for 110 through regular course enrollment and soph standing; or EM credit for 110; or a declared major in English. Not open to students with credit for 210, 267, H267, 301, 303, 305, or 367. Only one English 367 decimal subdivision may be taken for credit.

#### 367.01 The American Experience U 5

An intermediate course that extends and refines expository writing and analytic reading skills, with an emphasis on style and an introduction to documentation, with major topics pertaining to the United States.

H367.01 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC second writing and social diversity course. E367.01 may be available for honors embedded experience at the regional campuses.

**367.02 The U.S. Experience as Reflected in Literature U 5**

Discussion, analysis, and writing about issues presented through the diverse voices of U.S. literature.

GEC second writing and social diversity course.

**367.03 African-American Voices in U.S. Literature U 5**

Discussion, analysis, and writing about issues presented through the diverse voices of African-American literature.

Not open to students with credit for AfAm&ASt 367.03. Cross-listed in African-American and African Studies. GEC second writing and social diversity course.

**367.06 Composing U.S. Communities U 5**

Discussion, analysis, and writing about how rhetorical discourse helps to define, sustain, and challenge American society.

GEC second writing course.

**398 Critical Writing U 5**

Analysis of poetry, fiction, and drama, and issues in literary studies; intensive practice in writing critical essays in preparation for upper-division course work in English.

Prereq: 110 or 111 or equiv, a 367 writing course, and a declared English major; Rank 4 students must have permission of the director of undergraduate studies. Not open to students with credit for 302. Required of English majors; enrollment limited to English majors except by permission of dept. GEC third writing course.

**467 Writing and Learning U 5**

Study of how writing skills develop, in the context of a peer consulting program, including 2 weekly classes and a 2-hour tutoring practicum.

2 2-hr cl, arr practicum. Prereq: 110 or 111 or equiv.

**531 Restoration and Early 18th-Century Literature U G 5**

Study of poetry, prose and drama from the Restoration to the 1730s; authors may include Behn, Swift, and Wycherley.

**540 Poetry and Poetics of the British Romantic Period U G 5**

Study of Romantic poetry and poetics: readings in Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, and Mary Shelley.

**552 U.S. Literature, 1865-1914 U G 5**

Studies in fiction and poetry emphasizing such major figures as Twain, Howells, James, Dickinson, Robinson, Crane, Dreiser, and Willa Cather.

**553 20th-Century U.S. Fiction U G 5**

A study of American fiction after 1914, with emphasis on the work of such major figures as Anderson, Fitzgerald, Hemingway, and Faulkner.

**569 Digital Media and English Studies U G 5**

A critical examination of the intersection of English studies and the emergent technologies that are used to acquire and create knowledge in the discipline. 2 2-hr cl. Repeatable to a maximum of 10 cr hrs.

**574 History and Theories of Writing U G 5**

Study of the origins, definitions, and development of writing, with varying perspectives on historical, technological, theoretical, and ideological issues.

**578 Special Topics in Film U G 5**

Examination of particular topics, themes, genres, or movements in cinema; topics may include particular directors (Orson Welles), periods (The Sixties), genres (horror).

1 3-hr, 1 2-hr cl. Repeatable to a maximum of 15 cr hrs.

**582 Studies in African-American Literature U 5**

Topic varies; examples: Neo-Slave narratives; the Harlem Renaissance; literature by African-American women.

2 2-hr cl. Repeatable to a maximum of 10 cr hrs. including cr hrs earned in AfAm&ASt 582. Cross-listed in African-American and African Studies.

**583 Special Topics in World Literature in English U G 5**

Study of literatures written in English and produced outside of the U.S. and Britain; topics include colonial/postcolonial writing, regional literature, theoretical and historical approaches, genres.

2 2-hr cl. Repeatable to a maximum of 10 cr hrs.

**H590 Honors Seminar: Major Periods in Literary History**

Intensive study of one of the major periods of English and American literature; periods vary quarterly.

Prereq: CPHR of 3.00 or better, with a 3.50 or better in English, and permission of dept.

**H590.04 Romanticism U 5**

humans.

Su, Au, Wi, Sp Qtrs. 4 cl, 1 dis.

**203 Society and Natural Resources U 5**

Introduction to interactions between humans, natural resources, and ecosystems from a social science perspective.

Su, Wi, Sp Qtrs. 4 cl, 1 dis.

**400 Natural Resources Policy U 5**

Conceptual and historic development, implementation, and evaluation of resource policy.

Wi, Sp Qtrs. 4 cl, 1 rec. Prereq: 201 and 203. BER/GEC/LAR course.

## Evolution, Ecology, and Organismal Biology

**232 Introductory Physiology U 5**

A survey of the human nervous system, sense organs, muscle function, circulation, respiration, digestion, metabolism, kidney function, and reproduction.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 5 cr hrs in general biology or general chemistry; Biology 102 or 113 recommended. Credit does not count toward a major in evolution and ecology or zoology. Not intended for biological science majors. GEC bio sci course. NS Admis Cond course.

**413 Introduction to Ecology****413.03 Lecture and Laboratory U 5**

Distribution and abundance of species, population dynamics, community ecology, ecosystem dynamics, applied perspectives, and design and execution of experiments.

Prereq: 10 cr hrs in biological sciences. Not open to students with credit for 413.01 or 413.02 Offered only at the regional campuses.

## French

**101 Elementary French I**

Introduction to French; development of listening, reading, speaking, and writing skills.

Su, Au, Wi, Sp Qtrs. Not open to students with credit for 100.02 or to native speakers of this language through regular course enrollment or EM credit, or to students with 2 or more years of study in this language in high school, except by permission of dept. GEC for lang courses. FL Admis Cond courses.

**101.01 Classroom Track U 5**

Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

**102 Elementary French II**

Continuation of 101, further development of listening, reading, speaking, and writing skills.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses. FL Admis Cond courses.

**102.01 Classroom Track U 5**

Prereq: 101.01 or 5 cr hrs of 101.51. Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

**103 Intermediate French I**

Continued study of French; development of listening, reading, speaking, and writing skills; readings based on contemporary French culture and literature.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses.

**103.01 Classroom Track U 5**

Prereq: 102.01, or 102.66, or 5 cr hrs of 102.51. Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

**104 Intermediate French II**

Prereq: 103.01 or 103.66 or 5 cr hrs of 103.51 or 112. Not open to students with credit for 104; or to native speakers of this language through regular course enrollment or EM credit. Only one of the decimal subdivisions may be taken for credit. GEC for lang courses.

**104.01 Conversation and Composition U 5**

Continued development of listening, speaking, reading, and writing with an emphasis on oral and written skills; focus on functional topics and thematic vocabulary.

Su, Au, Wi, Sp Qtrs. H104.01 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Highly recommended for majors and minors. Course conducted in French. This course is available for EM credit.

## Environment and Natural Resources

**201 Introduction to Environmental Science U 5**

Introduction to environmental science, the ecological foundation of environmental systems, and the ecological impacts of environmental degradation by



### 151 French Literary and Cultural Works in Translation: from Romantic Passion to Existential Doubt U 5

Traces the growth of modernism and postmodernism out of romantic, realist, and symbolist currents of the nineteenth century in narratives, plays, poetry, films, art and music.

Taught in English. GEC arts and hums lit and western (non-US) course.

## Geography

### 120 Earth Systems II: Atmospheric Environment U 5

Introduction to the characteristics and processes of the Earth's atmosphere and their linkage with other physical systems of the planet and with human activity.

Su, Au, Wi, Sp Qtrs. 2 1 1/3-hr lec, 1 1 1/2-hr lab. H120 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 220 or 520, or Atmos Sc 230. GEC phys sci course.

### 200 World Regional Geography U 5

An examination of the human and physical geographic structure of all world regions; defined primarily at the continental scale and classified by their level of development.

Su, Au, Wi, Sp Qtrs. 3 11/3-hr cl. H200 (honors) may be available Au Qtr to students enrolled in an honors program or those approved by ASC Honors office. GEC soc sci human, natural, and economic resources course. SS Admis Cond course.

### 597 Issues of the Contemporary World

Prereq: Jr or sr standing. GEC contemporary world courses.

#### 597.01 World Urbanization U 5

An examination of geographic aspects of the urbanization process in the world's major regions; interrelationships between urbanization and economic development.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. Not open to students with credit for 450 or 597.

## German

### 101 Elementary German I

Development of aural comprehension, speaking, reading, and writing skills in cultural context.

Su, Au, Wi, Sp Qtrs. Open to students with no prior instruction in German and to those with a maximum of one year of high school German and a placement test score from 0-12.1. Not open to native speakers of this language through regular course enrollment or EM credit, or to students with 2 or more years of study in this language in high school, except by permission of dept. GEC for lang courses. FL Admis Cond courses.

#### 101.01 Classroom Track U 5

5 cl. Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

### 102 Elementary German II

Development of aural comprehension, speaking, reading, and writing skills in cultural context.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses. FL Admis Cond courses.

#### 102.01 Classroom Track U 5

5 cl. Prereq: 101.01 or 5 cr hrs in 101.51. Also open to students with a maximum of two years of high school German and a placement test score from 12.2-20.5. This course is available for EM credit.

### 103 Intermediate German I

Reading; oral and written practice; grammar review; students may select from among the following subdivisions which emphasize specific skills and subject matter.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 102.01, or 5 cr hrs in 102.51, 102.66 or equiv. Not open to native speakers of this language through regular course enrollment or EM credit. (Not all decimal subdivisions offered every qtr.) GEC for lang courses.

#### 103.01 Basic U 5

Balanced use of the basic language skills: reading, aural comprehension, speaking, and writing.

5 cl. This course is available for EM credit.

### 104 Intermediate German II

Reading; oral and written practice; vocabulary building; students may select from among the following subdivisions which emphasize specific skills and subject matter.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 103 or 112. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses.

#### 104.01 Basic U 5

Balanced use of the basic language skills: reading, aural comprehension, speaking, and writing.

5 cl. H104.01 (honors) may be available to students in an honors program or by permission of instructor. Prereq for 104.01: Any decimal subdivision of 103, or 112, or by placement test. This course is available for EM credit.

## History

### 151 American Civilization to 1877 U 5

The political, constitutional, social, and economic development of the United States from the colonial period through the era of Reconstruction.

H151 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq or concur: English 110 or 111. Not open to students with credit for 150.01. This course is available for EM credit. GEC historical survey course. SS Admis Cond course.

### 152 American Civilization since 1877 U 5

The political, constitutional, social, and economic development of the United States from the era of Reconstruction to the present.

H152 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: 151 and prereq or concur: English 110 or 111. Not open to students with credit for 150.02. This course is available for EM credit. GEC historical survey course. SS Admis Cond course.

### 181 World History to 1500 U 5

History of the human community to 1500, primary emphasis on history of civilizations, and secondary emphasis on patterns of regional and hemispheric integration.

Prereq: English 110 or 110.01 or 110.02 or 110.03 or 111 or permission of instructor. Not open to students with credit for 200.01. GEC historical survey course. E181 may be available for honors embedded experience at the regional campuses.

### 182 World History, 1500 to Present U 5

History of the human community from 1500 to the present, primary emphasis on processes of global integration, and secondary emphasis on comparative civilization.

Prereq: 181 or 200.01, and prereq or concur: English 110 or 111. Not open to students with credit for 200.02. GEC historical survey course.

### 323 History of African-Americans

Cross-listed in African-American and African Studies.

#### 323.01 History of African-Americans in the Age of Slavery U 5

Origins of modern slavery; its development in the US: the evolution of African-American life and culture from 1619 to the end of the Civil War.

Not open to students with credit for 223 or 260; or AfAm&ASt 223 or 323.01.

#### 323.02 History of African-Americans from Emancipation to the Present U 5

The rise of debt peonage among blacks; the formation of the northern ghetto; the Civil Rights Movement and beyond.

Not open to students with credit for 224 or 260; or AfAm&ASt 224, 238, or 323.02.

### 398 Introduction to Historical Thought U 5

Investigation of the methods historians use to understand the past.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. H398 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 302. Some classes will visit the Ohio Historical Society. A minimum grade of C in 398 is required for admission to the history major.

### 514 English History

#### 514.01 Tudor and Stuart Britain, 1500-1700 U G 5

The religious, political, economic, imperial, and intellectual development of the English people from 1485 to 1714, with special attention to the constitutional struggles of the 17th century.

Not open to students with credit for 631.

#### 514.02 England in the 18th and 19th Centuries U G 5

The course of political, social, and intellectual change, of industrial and commercial growth in Hanoverian and Victorian England.

Not open to students with credit for 632.

### 523 Women in the Western World: Ancient Civilization to the Industrial Revolution U G 5

Women and the economic, social, and political factors responsible for their status in society.

### 537 History of Russia

#### 537.01 Imperial Russia, 1725-1914 U G 5

A survey from the end of the reign of Peter the Great to the outbreak of World War I.

Not open to students with credit for 636.

**538 History of the Soviet Union U G 5**

Beginning with the background and events of the revolution of 1917, analysis of developments in Russian history from World War I to the present.

Not open to students with credit for 637.

**557 Early U.S. History****557.03 Civil War and Reconstruction U G 5**

The causes, character, and consequences of America's intersectional war and the post-war settlement.

Not open to students with credit for 662.

**565 From the New Era to the New Frontier, 1921-1963 U G 5**

U.S. domestic and foreign policy history, 1921 to 1963 covering New Era, New Deal, World War II, Cold War, Fair Deal, Eisenhower Republicanism, New Frontier.

**566 The Contemporary United States since 1963 U G 5**

Political, economic, social and cultural change since 1963; emphasis on political polarization, post-industrial economy, civil rights movement, feminism, environmentalism, Vietnam War, detente and globalization.

**598 Seminars**

GEC third writing courses.

**598.01 Senior Colloquium U 5**

The nature of historical judgment and interpretation: the roles of evidence, approach, and presuppositions.

Prereq: Sr history majors or written permission of instructor. Not open to students with credit for 598 or 598.02.

## History of Art

**201 History of Western Art I: The Ancient and Medieval Periods U 5**

Examination of the history of Western art from the third millennium BC to the fifteenth century AD.

Not open to students with credit for 210. GEC arts and hums VPA course and historical studies.

**202 History of Western Art II: Europe and the United States, Renaissance to Modern U 5**

Examination of the history of art in Europe and the United States, from about 1500 to the present.

Not open to students with credit for 212. GEC arts and hums VPA course and historical studies.

**213 Asian Art U 5**

Art of Asian cultures from ancient through contemporary times.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 2nd yr standing or 1st yr standing with credit for 111, 210, 211, 212, 216, or 250. GEC arts and hums VPA course.

**315 Renaissance Art in Italy U 5**

Art and society in Renaissance Italy.

2 2-hr cl. Prereq: 2nd yr standing. Not open to students with credit for 515, 529, or 530. GEC arts and hums VPA course.

**530 American Art U 5**

A study of architecture, painting, and sculpture in America.

2 2-hr cl. H530 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: English 110 or 110.01 and 2nd yr standing. Not open to students with credit for 330. GEC arts and hums VPA course.

## Human Development and Family Science

**360 Family Development U 5**

Dynamics of family interaction over the life cycle; emphasis on developmental, social, and cultural influences on the family experience.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl, 1 hr arr. BER/GEC/LAR course.

## Mathematics

**050 Precollege Mathematics I U 5**

Arithmetic of fractions and decimals, basic algebra, graphing equations, geometry, exponents, applications of exponents, lines and slopes, area.

Su, Au, Wi, Sp Qtrs. 5 cl. Not open to students with credit for any higher numbered math course. Credit will not count toward graduation in any degree program.

**075 Precollege Mathematics II U 4**

Factoring, rational expressions and equations, graphs, systems of linear

equations and inequalities, problem solving, roots and radicals, quadratic equations, complex numbers.

Su, Au, Wi, Sp Qtrs. 4 cl. Prereq: 050 or satisfactory score on Ohio State Math Placement Test. Not open to students with credit for any math course except 050. Credit will not count toward graduation in any degree program.

**104 Basic College Mathematics U 5**

Systems of equations, arithmetic of polynomials, rational expressions, factoring, fractional equations, inequalities, exponents, quadratic equations, absolute values, functions, and graphs.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 050 or satisfactory score on Ohio State Math Placement Test or permission of dept. Not open to students with credit for 130, or 148, or 150, or 151. Credit may not count toward graduation in some degree programs.

**105 Fundamental Mathematics Concepts for Teachers I U 5**

Development of basic ideas of arithmetic, algebra and geometry as appropriate for school teachers.

Su, Au, Wi Qtrs. 5 cl. Prereq: 075 or 076 or satisfactory score on Ohio State Math Placement Test. 105N open only to Rank 4 and GRD EDU students, and to students who've applied to GRD EDU.

**106 Fundamental Mathematics Concepts for Teachers II U 5**

Continuation of 105.

Wi, Sp Qtrs. 5 cl. Prereq: 105 or written permission of dept. 106N open only to Rank 4 and GRD EDU students, and to students who've applied to GRD EDU.

**107 Topics in Mathematics for Elementary Teachers U 5**

Further topics in mathematics selected by the instructors to broaden the mathematical perspectives of elementary teachers.

Au, Sp Qtrs. 5 cl. Prereq: 106 or written permission of dept.

**116 Excursions in Mathematics U 5**

Critical thinking and problem solving, with relevant topics met in everyday life; appropriate for non-physical sciences.

Su, Wi, Sp Qtrs. 5 cl. Prereq: 075 or 076 or 104 or satisfactory score on mathematics placement test. Not open to students with credit for 153.

**117 Survey of Calculus U 5**

An introduction to differential and integral calculus.

Au, Wi, Sp Qtrs. 5 cl. Prereq: 148 or 150 or Level L on Ohio State Math Skills Assessment or permission of dept. Not open to students with credit for 132 or 151. This course is not designated for students pursuing majors in business or the sciences.

**130 Mathematical Analysis for Business I U 4**

Equations, inequalities, absolute value, polynomial functions, matrices, applications to business.

Su, Au, Wi, Sp Qtrs. 4 cl. Prereq: 104 or placement M or N on the OSU Math placement test, or written permission of department. Not open to students with credit for 150 or higher numbered mathematics course. This course is available for EM credit.

**131 Mathematical Analysis for Business II U 4**

Differential calculus, limits, definition of derivative, calculation of derivatives, curve sketching, applications.

Su, Au, Wi, Sp Qtrs. 4 cl. Prereq: 130 or 148 or 150 or Math Placement Course Code L. Not open to students with credit for 151 or higher.

**132 Mathematical Analysis for Business III U 5**

Integral calculus, indefinite integration, area and definite integrals, improper integrals, functions of several variables, maxima, minima.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 131 or 151. Not open to students with credit for 152 or higher.

**148 Algebra and Trigonometry and Their Applications U 4**

Applications from chemistry, physics and biology involving integer and rational exponents, solving and graphing linear and quadratic equations, systems of equations, trigonometry of acute angles, vectors and exponential equations.

Su, Au, Wi, Sp Qtrs. 4 cl. Prereq: 104 or satisfactory score on Ohio State Math Placement Test. Not open to students with credit for 150 or higher numbered mathematics course.

**150 Elementary Functions U 5**

Inverse functions, logarithmic, exponential and trigonometric functions, and their graphs; complex numbers.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 148 or satisfactory score on Ohio State Math Placement Test or permission of dept. Not open to students with credit for 151, 161, H161, or H190. This course is available for EM credit.

**151 Calculus and Analytic Geometry I U 5**

Limits, continuity, derivatives, Mean Value Theorem, extrema, curve sketching, related rates, differentiation of the trig, log, and exp functions.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: C- or better in 150 or satisfactory score on Ohio State Math Placement Test. Not open to students with credit for 152 or higher; use of the Freshman Forgiveness Rule is restricted by this exclusion. GEC math and logical analysis course. This course is available for EM credit.

**152 Calculus and Analytic Geometry II U 5**

Integrals, area, fundamental theorems of calculus, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, methods of integration, applications of integration, polar coordinates.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: C- or better in 141 or 151. Not open to students with credit for 153 or higher; use of the Freshman Forgiveness Rule is restricted by this exclusion. GEC math and logical analysis course. This course is available for EM credit.

**153 Calculus and Analytic Geometry III U 5**

Indeterminate forms, Taylor's formula, improper integrals, infinite series, parametric curves, and vectors in the plane; vectors, curves, and surfaces in space.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: C- or better in 152 or 161 or H161. Not open to students with credit for 254 or higher; use of the Freshman Forgiveness Rule is restricted by this exclusion. This course is available for EM credit.

**Microbiology****509 Basic and Practical Microbiology U G 5**

Provides an understanding of microorganisms and their interaction with the human experience.

Su, Au, Wi, Sp Qtrs. 509N: Sp Qtr. 3 cl, 2 2-hr labs. Prereq: Biology 101 or 113 or H115. GEC bio sci course. NS Admis Cond course.

**Music**

110 Weigel Hall, 1866 College Road, 292-6571

Preceding the class sessions of Music 221 and Music 201, placement tests will be given to determine the ability of students in these subjects. Contact the School of Music for details.

**101 Applied Music for Nonmajors Group Instruction I**

Au, Wi, Sp Qtrs. 2 cl. Open only to non-music majors. VPA Admis Cond courses.

**101.02 Voice U 2**

Repeatable to a maximum of 4 cr hrs.

**203 University Choirs**

Au, Wi, Sp Qtrs.

**203.03 University Chorus U 1**

Oratorio and large choral works are studied and performed.

3 or more hrs rehearsal each wk. Prereq: Admission by audition only. Repeatable to a maximum of 18 cr hrs. VPA Admis Cond course.

**208 Small Ensembles**

Au, Wi, Sp Qtrs. 2 or more hrs rehearsal each wk. Prereq: Admission by audition and permission of instructor. VPA Admis Cond courses.

**208.02 Voice U 1**

Repeatable to a maximum of 18 cr hrs. including cr hrs earned in 199.02.

**250 Music Cultures of the World U 5**

A survey of musical cultures outside the Western European tradition of the fine arts.

Su, Au, Wi, Sp Qtrs. 5 cl. Not open to students with credit for 140. GEC arts and hums VPA and global focus course. VPA Admis Cond course.

**251 The World of Classical Music U 5**

An introduction to the world of classical music and to its genres, composers, styles, societies and historical periods.

Su, Au, Wi, Sp Qtrs. 5 cl. H251 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open for credit to music majors. Not open to students with credit for 141. H251: Sp Qtr (offered on the regional campuses only). A musical background is not required. E251 may be offered for honors embedded experience. GEC arts and hums VPA and western (non-US) course. VPA Admis Cond course.

**270 Basic Experiences in Music U 4**

Basic and extended experiences in elements of music through singing, listening to music, playing instruments, and reading and creating music.

Au, Wi, Sp Qtrs. 5 cl. Prereq: Soph standing. This course is available for EM credit.

**341^ American Popular Music U 5**

Historical survey of American popular music, with emphasis on the 20th century.

Sp Qtr. 4 cl hr. Prereq: English 110 or 110.01 or 110.02 or 110.03 or equiv. Not open to students with credit for 252. E341 may be available for honors embedded experience at the regional campuses. GEC arts and hums VPA course.

**345 Topics in Music**

Topic varies; study of selected topics in music.

Arr.

**345.01 Music History U 3-5**

Topic varies; study of selected topics in the history of Western music.

H345.01 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 345.01: 141 or 251. Prereq for H345.01: 250 or 251 suggested. Repeatable to a maximum of 15 cr hrs. Not offered at the Columbus Campus. GEC arts and hums VPA course.

**370 Music for Elementary Teachers U 3**

Music literature and teaching aids for children, including singing, rhythmic, creative, and listening experiences, and their presentation.

Au, Wi, Sp Qtrs. 5 cl. Prereq: 270 and professional standing.

**Philosophy****101 Introduction to Philosophy U 5**

Examination of major problems, such as the nature of reality, knowledge, truth, morality, and the relation of philosophy to science and religion.

H101 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC arts and hums cultures and ideas course.

**130 Introduction to Ethics U 5**

The nature of right and wrong, good and evil; the grounds of moral choice and decision; the resolution of moral conflicts.

H130 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC arts and hums cultures and ideas course.

**Physics****111 General Physics: Mechanics and Heat U 5**

Su, Au, Wi, Sp Qtrs. 4 cl, 1 2-hr lab. Prereq: Eligibility for Math 150. This course is available for EM credit. NS Admis Cond course. GEC phys sci course.

**112 General Physics: Electricity, Magnetism, and Light U 5**

Su, Au, Wi, Sp Qtrs. 4 cl, 1 2-hr lab. Prereq: 111. This course is available for EM credit. NS Admis Cond course. GEC phys sci course.

**113 General Physics: Modern Physics U 5**

Su, Au, Wi, Sp Qtrs. 4 cl, 1 2-hr lab. Prereq: 112. This course is available for EM credit. NS Admis Cond course. GEC phys sci course.

**131 Introductory Physics: Particles and Motion U 5**

Major concepts of physics from a contemporary point of view; for students in physical sciences, mathematics, or engineering.

Su, Au, Wi, Sp Qtrs. 5 cl, 1 2-hr lab. Prereq: 1 entrance unit of physics or chem; and Math 151 and concur Math 152, or concur Math 161 or higher. This course is available for EM credit. NS Admis Cond course. GEC phys sci course. E131 may be available for honors embedded experience at the regional campuses.

**132 Introductory Physics: Electricity and Magnetism U 5**

Continuation of 131.

Su, Au, Wi, Sp Qtrs. 5 cl, 1 2-hr lab. Prereq: 131; and Math 152 and concur Math 153, or concur Math 162 or higher. This course is available for EM credit. NS Admis Cond course. GEC phys sci course.

**Political Science****101 Introduction to American Politics U 5**

Introduction to American politics, the institutions and processes which create public policy, the strengths and weaknesses of the American political systems.

Su, Au, Wi, Sp Qtrs. 5 cl. H101 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 300. GEC soc sci organizations and politics course. SS Admis Cond course.

**367 Second Writing Course**

GEC second writing course.

**367.01 Contemporary Issues in American Politics U 5**

Discussion of and critical writing about controversies in contemporary American politics; aimed at fostering analytical abilities in reading comprehension, oral, and written expression.

Au Qtr. 2-2 hr cl or 5 cl. H367.01 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: 101 or 300 or permission of instructor, English 110 or 111, and soph standing.

## Psychology

### 100 General Psychology U 5

Introductory psychology, a prerequisite to advanced courses; the application of the scientific method to behavior; topics include learning, motivation, perception, personality, physiological basis of behavior.

Su, Au, Wi, Sp Qtrs. 5 cl. H100 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. SS Admis Cond course. This course is available for EM credit. GEC soc sci individuals and groups course. GEC social diversity in US course. E100 may be available for honors embedded experience at the regional campuses.

### 300 Research in Psychology: An Introduction U 4

An overview of issues, methods, and techniques of scientific psychological research.

Au, Wi, Sp Qtrs. Prereq: 100.

### 310 Basic Psychology: Perception U 4

Theory, methods, and physiological correlates of sensory and perceptual processes; emphasis on the relation of behavior to stimulus variation.

Prereq: 100, and 220 or 320 or Stat 145 or 245.

### 312 Learning, Memory, and Cognition U 4

An introduction to experimental study of human memory, learning, and cognition.

Au, Wi, Sp Qtrs. Prereq: 100; and 220 or 320, or Stat 145 or 245.

### 313 Behavioral Neuroscience U 5

Introduction to the structure and function of the nervous system in relation to behavior.

Au, Wi, Sp Qtrs. 4 cl. Prereq: 300.

### 320 Introduction to Data Analysis in Psychology U 5

Introduction to statistical data analysis; random samples, graphical and numerical techniques of descriptive statistics, correlation, regression, probability, sampling distribution, and hypothesis testing.

Au, Wi, Sp Qtrs. 2 1.5-hr cl, 1 2-hr lab. Prereq: Math 130 or 148 or 150 or 151 or 152 or equiv. Not open to students with credit for Stat 245.

### 331 Abnormal Psychology U 5

Examination of current theories and empirical findings regarding the major forms of psychopathology.

Su, Au, Wi, Sp Qtrs. E331 may be available for honors embedded experience at the regional campuses.

### 333 Human Behavior Problems

Overview of the psychology of human sexuality including the nature and variety of human sexual experience, theories and therapies regarding sexual issues.

Au, Wi, Sp Qtrs. 2 2-hr cl. Prereq: 100.

#### 333.02 Sexual U 5

### 335 Psychology of Adjustment U 4

Examination of psychological concepts and theories related to individual adjustment and adaptation.

Prereq: 100.

### 340 Introduction to Life Span Developmental Psychology U 5

A survey of developmental psychology including some phylogenetic perspective.

Su, Au, Wi, Sp Qtrs. 2 2-hr cl. E340 may be available for honors embedded experience at the regional campuses.

### 367 Second Writing Course

Au, Wi, Sp Qtrs. Prereq: 100, English 110 or 111 or equiv, and soph standing or above. GEC second writing course.

#### 367.01 Social Psychology U 5

Survey of group processes as they affect individual behavior; topics include individual motivation, group behavior, attitudes, and perception of self and others.

Not open to students with credit for 325.

### 375 Stereotyping and Prejudice U 4

Lectures address experimental research in stereotyping and prejudice; readings focus on historical, cultural, and sociological perspectives on issues related to gender, ethnicity, and social class.

Prereq: 100. GEC social diversity course.

### 394^ Group Studies U 1-5

Undergraduate seminar; topics vary and will be announced.

Prereq: 100. Repeatable to a maximum of 10 cr hrs. Including cr hrs earned in 294.

### 540 Counseling Psychology: An Introduction U G 4

Introduction to the theories, research, and practice of counseling psychology.

Su, Au, Wi, Sp Qtrs. Prereq: 100.

### 550 Psychology of Childhood U G 4

Presentation of psychological aspects of growth and development in early and middle childhood.

Su, Au, Wi, Sp Qtrs. Prereq: 100.

### 551 Adolescence U G 5

An examination of the biological, psychological, and social aspects of normal adolescent development.

Su, Au, Wi, Sp Qtrs. Prereq: 100.

### 555 Adolescent Sexuality U 5

An examination of the psychological, biological, and social influences on adolescent sexuality.

Prereq: 100.

### 601 Comparative Psychology U G 5

Research on animal behavior by psychologists and ethologists; studies of the behavior of different species in the lab and in the field.

2 2-hr cl. Prereq: 100 and an additional 15 cr hrs in psych or zoology, or permission of instructor.

### 695 Seminars in Psychology

Su, Au, Wi, Sp Qtrs. Prereq: Written permission of instructor; either 219 or 220 or 320, or Stat 145 or 245; and 17 cr hrs of psych course work above the 200 level; or grad standing. No more than 6 cr hrs in any combination of decimal subdivisions may be counted toward the undergrad major.

#### 695.04 Human Experimental U G 2-5

Repeatable.

#### 695.07 Social U G 2-5

Repeatable.

## Social Work

### 230 Individual Needs and Societal Responses U 5

Introductory understanding of human needs, social values, ideologies, and institutional structures which have shaped the evaluation of social welfare programs in America.

Au, Wi, Sp Qtrs. 2 1.5-hr cl, 1 2-hr lab. Not open to students with credit for 220. BER/GEC/LAR course.

### 300 Minority Perspectives: Race, Ethnicity, and Gender U 5

Examination of the structure of human societies, cultures, and institutions, and the allocation of resources from the vantage point of oppressed minority populations.

Au, Wi, Sp Qtrs. 2 1.5-hr cl, 1 2-hr lab. Prereq: 10 cr hrs of course work in polit sc, psych, or sociol. Not open to students with credit for 600. GEC course.

### 597 Adolescent Parenthood and Sexuality: International Perspectives U G 5

Examination of origins of adolescent sexual problems in milieus that develop different value systems; public policies and social programs designed to control adolescent sexuality and parenthood.

Su Qtr. 2 2.5-hr cl. Prereq: Sr standing; and 15 cr hrs of course work in social science in individual development, adolescence, the family, culture, and social change. Not open to MSW students. GEC/LAR course.

### 710 Women's Issues in Social Work P G 3

Examination of relevant issues in the professional practice of social work.

Su, Au, Wi Qtrs. 1 2.5-hr cl. Prereq: Grad standing.

### 711 Race and Ethnicity in Social Work Practice P G 3

An analytical approach to problems, needs, and intervention for effective social work practice with the oppressed target populations of Appalachians and Blacks.

Su, Au, Wi Qtrs. 1 2.5-hr cl. Prereq: Grad standing.

### 721 Social Welfare Policies and Programs II P G 3

The development and application of a conceptual model for social welfare policy and program analysis.

Wi Qtr. 1 2.5-hr cl. Prereq: 720.

### 730 Seminars in Social Functioning

Critical examination of personality, interactional, small group, organizational and community concepts and approaches used in social work analysis of social dysfunction.

Su, Sp Qtrs. 1 2.5-hr cl. Prereq: Soc work grad standing.

#### 730.02 Psychopathology and Deviance P G 3

### 734 Human Behavior and the Social Environment II P G 3

Continues applying the social work systems and life span frameworks to extra-familial environments (i.e., groups, communities and cultures) that affect individual development and social functioning.

Wi Qtr. 1 2.5-hr cl. Prereq: 733.

**744 Social Work Practice Lab P G 3**

Didactic and experiential learning of generalist practice skills.

Au Qtr. 1 3-hr cl. Open only to social work major only of grad standing. This course is graded S/U.

**770 Research Methods in Social Work P G 3**

Basic research methodology; the role of research in social work.

Su, Au Qtrs. 1 2.5-hr cl. Prereq: Soc work grad standing or permission of instructor.

**771 Data Analysis Designs P G 3**

Interpretation of social work data; quantitative techniques; designs of data analysis.

Su, Wi Qtrs. 1 2.5-hr cl. Prereq: Soc work grad standing or permission of instructor.

**772 Evaluation of Social Work Practice P G 3**

Utilization and selection of methodological techniques and applications for evaluating practice design and program effectiveness.

Su, Sp Qtrs. 1 2.5-hr cl. Prereq: 770 and 771. Not open to students with credit for 875.01 or 875.03.

## Sociology

**101 Introductory Sociology U 5**

Fundamental concepts of sociology and introduction to the analysis of social problems and social interactions, (e.g. wealth, gender, race inequality, family, crime) using sociological theories.

Su, Au, Wi, Sp Qtrs. H101 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for Rurl Soc 105 or equiv. GEC soc sci organizations and politics, and social diversity course. SS Admis Cond course.

**209 Introduction to Criminal Justice U 5**

Examination of the development and administration of criminal law and agencies (police, prosecutors, courts); emphasis on criminal proceedings and their justification.

**410 Criminology U 5**

The nature and causes of crime and delinquency, criminal liability, criminal careers, and organized racketeering.

H410 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor.

**463 Social Stratification: Race, Class, and Gender U 5**

The study of social inequality with a focus on inequalities by class and status, race and ethnicity, and gender.

H463 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for H463: Honors standing. GEC soc sci human, natural, and economic resources course.

**487 Types of Sociological Inquiry U 5**

Introduction to sociological research techniques, methodological approaches, and relevant quantitative procedures.

Au, Wi, Sp Qtrs. 2 1.5-hr cl, 2 1-hr labs. H487 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Criminol or fm&hu dv or int stds or social major, or social or criminol minor and jr standing; or permission of instructor.

**488 Introduction to Sociological Theory U 5**

Introductory statement of the nature of sociological theory, its basic problems, assumptions, major types and orientations, and principal contributions to the discipline.

Su, Au, Wi, Sp Qtrs. Prereq: 5 cr hrs in social.

**549 Quantitative Research Methods in Sociology U G 5**

An introduction to the application and interpretation of quantitative analysis in sociological research; emphasis on the description of social variables and hypothesis testing.

Su, Au, Wi, Sp Qtrs. 2 1.5-hr cl and 2 1-hr labs. H549 offered Au Qtr. H549 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq for 549: 487. Prereq for H549: 487, Math 116 or equiv, and jr standing; or permission of instructor. GEC data analysis course.

**597 Issues of the Contemporary World**

Prereq: Jr or sr standing. GEC courses.

**597.02 World Population Problems U 5**

General introduction to population studies, emphasizing how population growth and structure have caused or aggravated social problems in various countries.

Prereq: 5 cr hrs of social science course work, GEC data analysis requirement.

**670 Topics in Sociology U G 5**

Examination of selected current topics of interest to sociologists; topics vary

by section and instructor.

Au Qtr. 2 2-hr cl. Prereq: 487 and 488, or grad standing. Repeatable to a maximum of 15 cr hrs.

## Spanish

**101 Elementary Spanish I**

Introduction to Spanish; development of listening, reading, speaking, and writing skills.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit, or to students with 2 or more years of study in this language in high school, except by permission of dept. GEC for lang courses. FL Admis Cond courses.

**101.01 Classroom Track U 5**

Students must register for and complete 5 cr hrs during the qtr.

This course is available for EM credit.

**102 Elementary Spanish II**

Continued study of Spanish; development of listening, reading, speaking and writing skills.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses. FL Admis Cond courses.

**102.01 Classroom Track U 5**

Prereq: 101.01. Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

**102.66 Intensive Spanish for Review I U 5**

Intensive review of basic vocabulary, structures, and skills needed for entry into 103.01.

Prereq: 2 or more years of high school Spanish and placement at 101 level. Not open to native speakers of Spanish through regular course enrollment or EM credit, or to students with credit for 101.01 or 102.01.

**103 Intermediate Spanish I**

Continued study of Spanish; development of listening, reading, speaking, and writing skills; readings based on Spanish culture and literature.

Su, Au, Wi, Sp Qtrs. Not open to native speakers of this language through regular course enrollment or EM credit. GEC for lang courses.

**103.01 Classroom Track U 5**

Prereq: 102.01. Students must register for and complete 5 cr hrs during the qtr. This course is available for EM credit.

**104 Intermediate Spanish II U 5**

Reading of Spanish short stories, plays, and media with attention to literary appreciation; development of basic language skills.

Su, Au, Wi, Sp Qtrs. 5 cl. Prereq: 103.01 or 103.66 or equiv. Not open to native speakers of this language through regular course enrollment or EM credit; or to students with credit for 104. This course is available for EM credit. GEC for lang courses.

**151 Introduction to Latin American Culture and Literature U 5**

Introduction to the culture of Spanish America and Brazil through literature, art, music, film, and folklore.

2 2-hr cl, 1 1-hr rec. Taught in English. GEC arts and hums cultures and ideas course.

## Statistics

**133 Statistics for the Business Sciences U 5**

Introduction to basic concepts of descriptive statistics and probability; including graphical and numerical data summaries, properties of discrete and continuous probability distributions, and sampling distributions.

Su, Au, Wi, Sp Qtrs. 3 hr lecture; 2 1-hr recitations. Night version 3 hr lecture (1.5-hr twice/week) + 1 2-hr recitation. H133 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Prereq: Math 132 and CS&E 200.

**135 Elementary Statistics U 5**

Introduction to probability and statistics, experiments, and sampling, data analysis and interpretation.

Su, Au, Wi, Sp Qtrs. 3 1-hr cl, 2 labs. Prereq: Math 050 or Mathematics Placement Level S. Not open to students with credit for any of the following: 125, 145, 245, Econ 442, Ed-T&P 786, Mol Gen 650, Polit Sc 685, Psych 220 or 510, or Soc Work 570 or 571. GEC data analysis course.

**145 Introduction to the Practice of Statistics U 5**

Topics include probability, descriptive statistics, correlation, regression, design of experiments, sampling, estimation, and testing; emphasis on applications, statistical reasoning, and data analysis using statistical software.

Su, Au, Wi, Sp Qtrs. 3 1-hr cl, 2 labs. Prereq: Math placement level L or M, Math 116 or 130 or 148 or 150 or 151 or equiv. GEC data analysis course.

## Theatre

### 100 Introduction to Theatre U 5

A study of the theatre with emphasis upon its cultural and social influences in our society.

Au, Wi, Sp Qtrs. H100 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC social diversity and arts and hums VPA course. VPA Admis Cond course.

### 205 Technical Production Practicum U 1

Provides experience in technical production activities.

Su, Au, Wi, Sp Qtrs. Repeatable to a maximum of 6 cr hrs. VPA Admis Cond course.

### 220 Technical Production Fundamentals I U 5

Basic aspects of scenery design construction; theory, process, equipment, materials, and skills.

Su, Au, Wi Qtrs. 2 cl. 2 lab hrs; plus 20 practicum hours. VPA Admis Cond course.

### 280 Acting Fundamentals I U 3

Basic acting techniques; imagination, concentration, human psychology as applied to creation of character and development of stage presence.

Su, Au, Wi, Sp Qtrs. 4 lab hrs. VPA Admis Cond course. GEC arts and hums VPA course.

### 305 Production Run Crew Practicum U 2

Hands-on involvement in the production of live theatre; participation leading to a more thorough understanding of theatre and in particular theatre design and technology.

Au, Wi, Sp Qtrs. Arr. Repeatable to a maximum of 8 cr hrs.

### 310 Stage Directing U 5

Techniques of play analysis, interpretation, composition, movement, rhythm and tempo; their integration in stage direction.

Au, Wi, Sp Qtrs. 3 2-hr cl. Prereq: 210, 280, and jr standing.

### 405 Theatre Practicum II

Provides experience in theatrical performance and production activities at an intermediate level.

Su, Au, Wi, Sp Qtrs. Prereq: Permission of instructor. Repeatable to a maximum of 18 cr hrs in any combination of decimal subdivisions.

#### 405.08 Acting U 1-3

Repeatable to a maximum of 18 cr hrs.

## Undergraduate Student Academic Services

352 Denney Hall, 164 West 17th Avenue, 292-0646

### 100 University Survey

Introduction to the University community; strategies for successful transition to and participation in that community; institutional context of academic programs; education and learning as life-long processes; University resources and procedures.

Su, Au, Wi, Sp Qtrs. 2 1-hr cl. Not open to students with credit for Agr 100, Arch 100, Arts Col 100, Arts&Sci 100, Bio Sci 100, Bus Adm 100, Engineer 100, Hum Col 100, MPS Col 100, Nursing 100, SBS Col 100, or Scholars 100. H100 (honors) decimal subdivisions may be available to students enrolled in an honors program or by permission of college. Students schedule a section of University Survey corresponding to their curricular academic program.

#### 100.21 Exploration Survey U

## Women's Studies

### 110 Women, Culture, and Society U 5

Interdisciplinary analysis of women, culture, and society; topics include cultural images, socialization, media, sexuality, sexual orientation, work, family, politics, violence, inequality, and racial diversity.

Su, Au, Wi, Sp Qtrs. 5 cl or 22-hr cl. H110 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. Not open to students with credit for 101, 201, 202, or 210. GEC soc sci individuals and groups, and social diversity course.

### 215 Reading Women Writers U 5

Study of women writers' strategies for articulating experiences and using literature as a lens for social reality and catalyst for social and political change.

GEC Arts and Hums lit course.

### 367 Second Writing Course

Prereq: English 110 or equiv, and soph standing or above.

#### 367.01 U.S. Women Writers: Text and Context U 5

Writing about and analysis of female experiences as represented in U.S. literature by women; emphasis on interdisciplinary relationships between literature and socio-political history.

Su, Au, Wi, Sp Qtrs. 5 cl. H367.01 (honors) may be available to students enrolled in an honors program or by permission of dept or instructor. GEC second writing and social diversity courses.