

CAP 233: Computerized Information Retrieval

(B) Introduction to retrieving information from commercial, computerized data bases containing bibliographic, numeric and full text documents. Students will learn how data bases are organized and documented; how information is retrieved using command languages and communications software. Prerequisite: CAP 100. (1 cr. hr.)

CAP 235: Presentation Software

(O) Using the computer to create graphic representations of information and enhance print and non-print communication. Prerequisite: CAP 100 or consent of instructor. (1 cr. hr.)

CAP 236: Desktop Publishing

(B) Using the computer to create desktop publishing layouts of newspapers, newsletters, and resumes. Prerequisite: CAP 100 or consent of instructor. (1 cr. hr.)

CAP 238: Web Page Design

(A) Skills to design and create Web pages consisting of text and graphics. Prerequisite: CAP 100. (1 cr. hr.)

CAP 240: Intermediate Computer Applications

(A) An introduction to desktop publishing and Web site development with a concentration in the use of multimedia files to enhance documents. Students will learn how to manipulate graphics, generate sound and video files, and create publications by learning fundamentals of modern presentation, desktop publishing, and Web page editing software. Prerequisite: CAP 100. (3 cr. hr.)

CAP 250: Computer Practicum

(A) For students who are resource assistants in computer applications courses. Prerequisites: CAP 100 or equivalent and consent of instructor. (1-2 cr. hr.)

CAP 327: Computer Mapping

(O) Introduction to desktop computer mapping. Practical experience in using computer mapping techniques to create thematic maps that graphically display data. Database organization, manipulation and analysis for efficient production of publication quality maps for communicating spatial information. Three lectures and/or demonstrations, one two-hour laboratory. Also listed as GRY 327. Prerequisite: CAP 100. (4 cr. hr.)

CAP 328: Geographic Information Systems

(S) Desktop computer-based Geographic Information System (GIS) Applications. Practical experience using GIS software to learn geographic data management, thematic mapping, basic map and database querying, as well as map creation and report writing. Three lectures and/or demonstrations, one two-hour lab. Also listed as GRY 328. Prerequisite: CAP 100. (4 cr. hr.)

CAP 330: Advanced GIS Techniques

(S-C) Planning, execution, and delivery of a GIS- and CAP-based project, which demonstrates mastery of tools of GIS in a substantive application tailored to a field of interest. Also listed as GRY 330. Prerequisite: GRY/CAP 327 or GRY/CAP 328. (4 cr. hr.)

CAP 350: Data Base Management Systems

(O) Developing data base applications using integrated data base management tools. Survey of data base structures and methodologies. Generation of custom reports and graphics displays. Selected advanced data base features such as screen design, macros and procedures introduced. Prerequisite: CAP 100. (3 cr. hr.)

CAP 351: Advanced Web Page Design

(B) Advanced Web page design features such as tables, frames, and forms as well as interactive applications such as animation and Javascript. Prerequisite: CAP 238 or CAP 240. (3 cr. hr.)

Economics

DEPARTMENT

SCHOOL

Arts and Sciences

FACULTY

Tim Phillips (Chair), Howard Botwinick, Kathleen Burke, Joshua Frank, Katherine Graham, Alan D. Haight, Lisi Krall, Susanne Polley, Judy Sears, Deborah Spencer, German A. Zarate

ADJUNCT FACULTY

For a listing of adjunct faculty see pages 312-315.

PROGRAMS OFFERED

Bachelor of Arts in Economics
 Bachelor of Arts in Business Economics
 Bachelor of Science in Business Economics
 Bachelor of Arts in Adolescence Education: Social Studies and Economics (7-12)

MAJORS OFFERED

Economics
 Business Economics
 Adolescence Education: Social Studies and Economics (7-12)

Old Main, Room 136
 (607) 753-4109
 E-mail: tphillips@cortland.edu
www.cortland.edu/economics/

CONCENTRATIONS OFFERED

Environmental Management
 Financial Management
 Human Resource Management
 International Business
 International Political Economy and Public Policy

MINORS OFFERED

Economics, Management, Political Economy and Public Policy

DESCRIPTION

The Economics Department offers both an economics major and a business economics major. Students may select courses from a wide variety of areas, including international trade and finance, economic development, fiscal economics, money and banking, labor economics, the political economy of race and class, the political economy of women, environmental economics and sports economics.

The department offers two different concentrations that lead to the B.A. in economics: one leads to a traditional economics degree, the other emphasizes international political economy and public policy. Moreover, courses in the economics major may be combined with a professional sequence leading to qualification for initial certification as a teacher of secondary social studies.

The major in business economics allows students with career goals in various management-related fields to acquire the skills necessary for such careers. The major leads to the award of the bachelor of arts or bachelor of science.

SPECIAL FEATURES

- Internships/Cooperative Education
- Women in Economics Club
- Omicron Delta Epsilon, Economics Honor Society
- Economics Club
- Study abroad opportunities
- 4+1 MBA program with Clarkson University

Requirements

1. Degree Requirements listed on pages 38-48 of this catalog apply to the following majors.
2. Liberal Arts Requirements: B.A. – 90 credit hours;
B.S. – 75 credit hours

Major in Economics [ECO]

The economics major emphasizes critical thinking and creative problem-solving skills, in addition to providing technical training in the economics discipline. Students are encouraged to apply analytical techniques to real world problems that are developed in elective courses within the major.

CAREER POTENTIAL

- Banker
- Economist
- Consultant
- Financial analyst

- A. Required Courses: 21 credit hours
- ECO 105: Political Economy and Social Thought
 - ECO 110: Principles of Macroeconomics
 - ECO 111: Principles of Microeconomics
 - ECO 221: Economic Statistics
 - ECO 222: Mathematical Economics
 - ECO 300: Macroeconomic Theory
 - ECO 301: Economics of the Firm

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

B. Other: 15 additional credit hours of economics (ECO) courses at the 300 level or above.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Economics with a concentration in International Political Economy and Public Policy [ECO/IPEP]

This concentration is designed to give students a solid grounding in the analysis of the contemporary international economy and the key issues that face policymakers on the local, state, national and international levels.

CAREER POTENTIAL

- City planner
- Country analyst, import/export bank
- Labor activist
- Nonprofit project manager

- A. Required Courses: Nine credit hours
- ECO 105: Political Economy and Social Thought
 - ECO 110: Principles of Macroeconomics
 - ECO 111: Principles of Microeconomics

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

- B. Required Core in Political Economy: Six credit hours
- ECO 303: History of Economic Thought
 - ECO 304: Comparative Economic Systems
 - ECO 306: Comparative Approaches in Political Economy
 - ECO 307: Marxian Economics
 - ECO 402: Seminar in Economics

- C. International Political Economy and Public Policy – Applied Courses: 18 credit hours (nine hours to be selected from each of the following two categories*):

- Public Policy in the Global Economy: Nine credit hours
- ECO 300: Macroeconomic Theory
 - ECO 306: Comparative Approaches in Political Economy**
 - ECO 325: Political Economy of Women
 - ECO 326: Political Economy of Race and Class
 - ECO 335: Resource and Environmental Economics
 - ECO 383: Labor Economics
 - ECO 393: Urban Economics
 - ECO 400: Research Experience in Economics (in fields related to public policy)
 - ECO 401: Coop Education/Internship in Economics
 - ECO 432: Fiscal Economics
 - ECO 482: Labor Market Analysis
 - ECO 494: Regional Economics

- International Political Economy: Nine credit hours
- ECO 304: Comparative Economic Systems**
 - ECO 311: Economic Development
 - ECO 312: Economic Development in Latin America
 - ECO 313: Economic Development of Asia
 - ECO 400: Research Experience in Economics (in fields relating to international political economy)
 - ECO 401: Co-op Education/Internship in Economics
 - ECO 441: International Trade
 - ECO 443: International Finance

* Appropriate alternate courses, of a technical or interdisciplinary nature, may be substituted for up to two of the six applied courses (one in each category), in consultation with and with the consent of the student's advisor. Such courses may be offered by the economics, geography, history, international studies, philosophy, political science, sociology and other departments.

** These courses may be taken to fulfill the requirements for applied courses (C) if they are not taken to satisfy the comparative approaches (B) requirements

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics [BUSE]

The major in business economics leads to the award of the bachelor of arts or bachelor of science. The major is unique among SUNY institutions in its emphasis on the development of both technical and analytical skills in a strong liberal arts context.

Students may focus on one of the four concentrations described below or may choose a different combination of electives which will provide them with a broad perspective of important issues.

CAREER POTENTIAL

- Economic consultant
- Entrepreneur
- Management
- Policy analyst

A. Required Core in Economics: 21 credit hours

ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics
 ECO 222: Mathematical Economics *or*
 MAT 121 and MAT 122: Calculus A and B
 ECO 301: Economics of the Firm
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

B. Required Core in Management: 18 credit hours

CAP 100: Introduction to Computer Applications
 MGT 250: Principles of Management
 MGT 253: Principles of Marketing *or* ECO 385 *or* COM 302 *or* COM 303 *or* COM 320 *or* COM 421 *or* COM 422
 MGT 254: Principles of Accounting I
 MGT 423: Computer Applications in Economics and Management
 MGT 454: Strategic Management

C. Elective Courses: 12 credit hours

The requirements for this section may be met by either:

A semester of study abroad *or*

12 credit hours of MGT 456: Co-op Education/Internship in Management *or*

12 credit hours to be divided among the following three broad perspective categories as described below:

Three credit hours in Alternate Economic Theory selected from the following courses:

ECO 303: History of Economic Thought
 ECO 304: Comparative Economic Systems
 ECO 305: Political Economy of Globalization
 ECO 306: American Political Economy
 ECO 307: Marxian Economics
 ECO 311: Economic Development
 ECO 325: Political Economy of Women
 ECO 326: Political Economy of Race and Class
 ECO 335: Resource and Environmental Economics
 ECO 383: Labor Economics

Three credit hours in International Economics selected from the following courses:

ECO 304: Comparative Economic Systems
 ECO 305: Political Economy of Globalization
 ECO 311: Economic Development
 ECO 312: Economic Development of Latin America
 ECO 313: Economic Development of Asia
 ECO 441: International Trade
 ECO 443: International Finance

Three credit hours in Applied and Policy Perspectives selected from the following courses:

ECO 300: Macroeconomic Theory
 ECO 325: Political Economy of Women
 ECO 326: Political Economy of Race and Class
 ECO 335: Resource and Environmental Economics
 ECO 340: Government and Business: Regulation and Public Policy
 ECO 366: The Economics of Sport
 ECO 383: Labor Economics
 ECO 385: Human Resource Management
 ECO 393: Urban Economics
 ECO 401: Coop Education/Internship in Economics
 ECO 421: Econometrics
 ECO 431: Money and Banking
 ECO 432: Fiscal Economics
 ECO 441: International Trade
 ECO 443: International Finance
 ECO 452: Advanced Finance
 ECO 455: Asset Markets
 ECO 482: Labor Market Analysis
 ECO 494: Regional Economics

Three additional credit hours in any one of the above categories

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

As an alternative to the study abroad or the broad perspective approach described on the previous page, students may choose a major in business economics that concentrates their study in one of the following four fields of management.

Major in Business Economics with a concentration in Environmental Management [BUSE/ENMG]

The concentration in environmental management provides students with the opportunity to immerse themselves in the various environmental issues that confront society.

CAREER POTENTIAL

- Cost benefit analyst
- Environmental consultant
- EPA economist
- Waste manager

A. Required Core in Economics: 21 credit hours

ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics
 ECO 222: Mathematical Economics *or*
 MAT 121 and 122: Calculus A and B
 ECO 301: Economics of the Firm
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

B. Required Core in Management: 18 credit hours

CAP 100: Introduction to Computer Applications
 MGT 250: Principles of Management
 MGT 253: Principles of Marketing *or* ECO 385 *or* COM 302 *or* 303 *or* 320 *or* 421 *or* 422
 MGT 254: Principles of Accounting I
 MGT 423: Computer Applications in Economics and Management
 MGT 454: Strategic Management

C. Elective Courses: 15 credit hours

Nine credit hours:

- EST 100: Introduction to Environmental Studies
 ECO 335: Resource and Environmental Economics
 ENS 486: Seminar in Environmental Science

Six credit hours selected from the following courses:

- GRY 110: Physical Geography
 GLY 160: Environmental Geology
 CHE 125: Chemistry and the Environment
 POL 242: Environmental Policy
 GLY 292: Land Use and Planning
 SCI 300: Science and its Social Context
 SCI 304: Plants and People
 BIO 307: Field Natural History
 POL 308: Environmental Law
 REC 310: Wilderness and American Culture
 SCI 320: Science, Technology, Culture
 GRY 328: Geographic Information Systems
 SCI 330: Science and the Public
 SCI 350: Science in the Social World
 REC 402: Management of Recreation Resources
 ANT 410: Cultural Ecology
 GRY 470: Resource Geography
 ECO 401: Co-op Education/Internship in Economics
 ECO 421: Econometrics

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics with a concentration in Financial Management [BUSE/FMGT]

The financial management concentration allows interested students to pursue courses that will allow them to function well in any area of finance. Proper financial management is an essential function of organizations and an important skill for individuals as well.

CAREER POTENTIAL

- Banker
- Financial planner
- Mortgage analyst
- Stock broker

A. Required Core in Economics: 21 credit hours

- ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics
 ECO 222: Mathematical Economics *or*
 MAT 121 and 122: Calculus A and B
 ECO 301: Economics of the Firm
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites. In addition, a grade of C- in ECO 352 is required before a student can declare a financial management concentration.

B. Required Core in Management: 18 credit hours

- CAP 100: Introduction to Computer Applications
 MGT 250: Principles of Management
 MGT 253: Principles of Marketing *or* ECO 385 *or*
 COM 302 *or* 303 *or* 320 *or* 421 *or* 422
 MGT 254: Principles of Accounting I

MGT 423: Computer Applications in Economics and Management

MGT 454: Strategic Management

C. Elective Courses: 12 credit hours

MGT 255: Principles of Accounting II

And nine credit hours selected from the following courses:

- ECO 300: Macroeconomic Theory
 ECO 401: Co-op Education/Internship in Economics
 ECO 421: Econometrics
 ECO 431: Money and Banking
 ECO 443: International Finance
 ECO 452: Advanced Finance
 ECO 455: Asset Markets

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics with a concentration in Human Resource Management [BUSE/HRM]

The increased realization of the importance and diversity of the employees of an organization is captured in the concentration in human resource management.

CAREER POTENTIAL

- Affirmative action officer
- Benefits administrator
- Compensation analyst
- Human resource manager

A. Required Core in Economics: 21 credit hours

- ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics
 ECO 222: Mathematical Economics *or*
 MAT 121 and 122: Calculus A and B
 ECO 301: Economics of the Firm
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

B. Required Core in Management: 18 credit hours

- CAP 100: Introduction to Computer Applications
 MGT 250: Principles of Management
 MGT 253: Principles of Marketing *or* ECO 385 *or* COM 302 *or*
 303 *or* 320 *or* 421 *or* 422
 MGT 254: Principles of Accounting I
 MGT 423: Computer Applications in Economics and Management
 MGT 454: Strategic Management

C. Elective Courses: 12 credit hours selected from the following:

- ECO 325: Political Economy of Women
 ECO 326: Political Economy of Race and Class
 ECO 383: Labor Economics
 ECO 385: Human Resource Management
 ECO 401: Co-op Education/Internship in Economics
 ECO 421: Econometrics
 ECO 482: Labor Market Analysis

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics with a concentration in International Business and Economics [BUSE/IBE]

The concentration in international business and economics addresses the complexity of the economy through a variety of international course offerings, including course work in economic development, international trade and finance, and comparative analysis of different economies.

CAREER POTENTIAL

- Exchange rate risk manager
- Foreign exchange trader
- Import/export manager
- International law and business

- A. Required Core in Economics: 21 credit hours
 ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics
 ECO 222: Mathematical Economics *or*
 MAT 121 and 122: Calculus A and B
 ECO 301: Economics of the Firm
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

- B. Required Core in Management: 18 credit hours
 CAP 100: Introduction to Computer Applications
 MGT 250: Principles of Management
 MGT 253: Principles of Marketing *or* ECO 385 *or* COM 302
or 303 *or* 320 *or* 421 *or* 422
 MGT 254: Principles of Accounting I
 MGT 423: Computer Applications in Economics and Management
 MGT 454: Strategic Management
- C. Elective Courses: 12 credit hours from the following courses:
 ECO 304: Comparative Economic Systems
 ECO 305: Political Economy of Globalization
 ECO 311: Economic Development
 ECO 312: Economic Development of Latin America
 ECO 313: Economic Development of Asia
 ECO 401: Co-op Education/ Internship in Economics
 ECO 421: Econometrics
 ECO 441: International Trade
 ECO 443: International Finance

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Dual major in Adolescence Education: Social Studies and Economics (7-12) [SST and ECO]

CAREER POTENTIAL

- High school teacher
- Consultant
- Economist
- Financial analyst

This program allows students who major in economics to qualify for certification to teach adolescence education in social studies (grades 7-12). It combines a major in economics with 47-68 credit hours in additional course work and professional teacher preparation.

- A. Required Courses in Economics: 18 credit hours
 ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics
 ECO 221: Economic Statistics *or*
 ECO 222: Mathematical Economics
 ECO 300: Macroeconomic Theory
 ECO 301: Economics of the Firm

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics and business economics majors before taking upper-level courses that require any of these foundational classes as prerequisites.

- B. Other: 15 additional credit hours of economics (ECO) at the 300 level or above
- C. Professional Preparation: 44-68 credit hours (including additional social science courses)
 HLH 199: Critical School Health Issues
 PSY 101: General Psychology I
 PSY 232: Adolescent Psychology *or*
 PSY 332: Educational Psychology
 ECO 105: Political Economy and Social Thought
 GRY 425: Geography in the Classroom *or*
 GRY 482: Central America and the Caribbean *or*
 GRY 484: Geography of Europe *or*
 GRY 486: Monsoon Asia
 GRY 480: United States *or*
 GRY 481: Geography of New York State
 POL 100: Introduction to American Government and Politics
 HIS 100: The World to 1500 *and*
 HIS 101: The World since 1500 *or*
 HIS 110: Western Civilization to 1715 *and*
 HIS 111: Western Civilization since 1715
 HIS 200: The United States to 1877 *and*
 HIS 201: The United States from 1877 *and*
 Three additional hours of history at the 300 level or above
 AED 310: Grammar and the Writing Process *or*
 LIT 449: Literacy in the Middle and Secondary School *or*
 LIT 549: Literacy in the Middle and Secondary School
 SHH 300: Normal Language Development *or*
 PSY 350: Psychology of Language
- D. Professional Sequence: Junior year, four credit hours
 AED 391: Introduction to Adolescence Education
Fall semester only. A 25-hour field requirement is attached to this course.
 AED 300: Introduction to Secondary Social Studies
 Spring semester only. A 35-hour field requirement is attached to this course. Requires acceptance into the adolescence education: social studies (SST) major.

- E. Professional Sequence: Senior year, 21 credit hours*
 AED 301: Pre-practice Teaching Seminar
 Fall semester only. A 40-hour field requirement is attached to this course and must be completed in the preceding spring semester.
 Student Teaching: Spring semester only. No other courses may be taken during the student teaching semester.
 AED 400: Student Teaching I
 AED 401: Student Teaching II
 AED 402: Student Teaching Seminar

* To be eligible for student teaching, a student must have declared adolescence education: social studies (7-12) as a major by the beginning of the second semester of the junior year and must have senior status, at or near 90 credit hours, with 24 credit hours in the academic social science major, which must be officially declared. A student must also have an overall grade point average of 2.5, a grade point average of 2.7 in the academic social science major, and a C or better in AED 300. No student who receives a grade below a C- in any introductory course in the academic social science major will be allowed to enter student teaching until the course has been retaken and a higher grade earned. Student teaching is a capstone experience. Students who cannot graduate by the December following student teaching may not register for the AED 400, 401, 402 sequence.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 126

Minor in Management [MGT]

- A. Required Courses: 12 credit hours
 ECO 105: Political Economy and Social Thought
 MGT 250: Principles of Management
 MGT 254: Principles of Accounting I
 ECO 352: Finance

Note: A minimum grade of C- in the foundational classes (ECO 105 and ECO 110 if taken as an elective) is required for all management minors before taking upper-level courses that require any of these foundational classes as prerequisites.

- B. Other Courses: Six credit hours selected from the following:
 CAP elective above CAP 100
 ECO 111: Principles of Microeconomics
 PHI 233: Management Ethics
 MGT 253: Principles of Marketing
 MGT 255: Principles of Accounting II
 MGT 265: Business Law
 COM 302: Intercultural Communication *or*
 COM 303: International Communication *or*
 COM 320: Organizational Communication *or*
 COM 421: Mass Media Advertising *or*
 COM 422: Public Relations
 ECO 385: Human Resource Management

*Note: 1) Economics majors pursuing a management minor cannot count ECO 111 and ECO 385 toward both the economics major and the management minor. ECO 111 will count toward the major, and ECO 385 may count toward either the major or the minor.
 2) The minor in management is not open to sport management majors.*

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Minor in Economics [ECO]

- A. Required Courses: Nine credit hours
 ECO 105: Political Economy and Social Thought
 ECO 110: Principles of Macroeconomics
 ECO 111: Principles of Microeconomics

Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics minors before taking upper-level courses that require any of these foundational classes as prerequisites.

- B. Elective Courses: Six credit hours
 Two economics electives (300 level or above).

*Note: 1) MGT courses do not count toward the minor in economics.
 2) SPMG majors can only count two courses taken as part of their major toward the minor in economics.*

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 15

Minor in Political Economy and Public Policy [PEPP]

- A. Required Course: Three credit hours
 ECO 105: Political Economy and Social Thought

Note: A minimum grade of C- in ECO 105 is required for all political economy minors before taking upper-level courses that require this class as a prerequisite.

- B. Other Courses: Six credit hours from the following:
 ECO 303: History of Economic Thought
 ECO 304: Comparative Economic Systems
 ECO 306: Comparative Approaches in Political Economy
 ECO 307: Marxian Economics
 ECO 402: Seminar in Economics

- C. Other Courses: Three credit hours from the following:
 ECO 300: Macroeconomic Theory
 ECO 306: Comparative Approaches in Political Economy
 ECO 325: Political Economy of Women
 ECO 326: Political Economy of Race and Class
 ECO 335: Resource and Environmental Economics
 ECO 383: Labor Economics
 ECO 393: Urban Economics
 ECO 400: Research Experience in Economics
 (in fields related to public policy)
 ECO 432: Fiscal Economics
 ECO 482: Labor Market Analysis
 ECO 494: Regional Economics

- D. Other Courses: Three credit hours from the following:
 ECO 304: Comparative Economic Systems
 ECO 311: Economic Development
 ECO 312: Economic Development in Latin America
 ECO 313: Economic Development of Asia
 ECO 400: Research Experience in Economics
 (in fields relating to international political economy)
 ECO 401: Co-op Education/Internship in Economics
 ECO 441: International Trade
 ECO 443: International Finance

Note: MGT courses do not count toward the minor in political economy and public policy.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 15-17

Example of the bachelor's degree in Business Economics over four years

This is just a model, and does not reflect the expectations for all of our programs.

First Year	Second Year
<p><i>Fall</i></p> <p>COR 101 CPN 100 or 102 ECO 105 (GE 1) Foreign language GE 3 Elective</p> <p>Total credit hours: 16-17</p> <p><i>Spring</i></p> <p>CPN 101 or 103 ECO 110 GE 4 GE 5 Elective</p> <p>Total credit hours: 15-16</p>	<p><i>Fall</i></p> <p>ECO 111 MGT 250 MGT 254 GE 6 GE 8a</p> <p>Total credit hours: 16</p> <p><i>Spring</i></p> <p>CAP 100 ECO 222 ECO 352 GE 8b Elective</p> <p>Total credit hours: 15</p>
Third Year	Fourth Year
<p><i>Fall</i></p> <p>ECO 221 ECO 301 MGT 253 GE 7 Elective or minor</p> <p>Total credit hours: 15</p> <p><i>Spring</i></p> <p>MGT 423 GE 2 ECO elective Elective Elective or minor</p> <p>Total credit hours: 15</p>	<p><i>Fall</i></p> <p>ECO elective ECO elective Elective or minor Elective or minor Elective</p> <p>Total credit hours: 15</p> <p><i>Spring</i></p> <p>MGT 454 WI Internship or ECO elective Elective/minor Elective/minor Elective</p> <p>Total credit hours: 15</p>

Economics

COURSE DESCRIPTIONS

ECO 105: Political Economy and Social Thought

(A) Introduction to key controversies within history of economic and social thought which provide basis for ongoing debates on role of government, private enterprise and community within capitalist economies. Topics include: historical overview of the rise of capitalism and the evolution of economic thought, classical liberalism and radical critiques; Great Depression and the New Deal; Neoliberalism and the modern global economy; poverty and income distribution, welfare reform, minimum wage, unemployment, class, race and gender inequality. (3 cr. hr.) ■

ECO 110: Principles of Macroeconomics

(A) Principles which govern economic behavior; full employment, price stability and economic growth. (3 cr. hr.) ■

ECO 111: Principles of Microeconomics

(A) Analysis of behavior of individual economic units such as households and firms, pricing of goods and services under different market structures and applications to real-world microeconomic phenomena. (3 cr. hr.) ■

ECO 129, 229, 329, 429: Special Topics in Economics

Selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for content and academic level of credit. (1-4 cr. hr.)

ECO 221: Economic Statistics

(B) Estimation, measurement in economic research; probability, sampling, hypothesis testing, regression, index numbers, seasonal and trend analysis. Also listed as MAT 201, PSY 201, and COM 230. (3 cr. hr.)

ECO 222: Mathematical Economics

(B) Mathematical formulation of economic theories. Prerequisites: ECO 110, 111; working knowledge of college algebra. (3 cr. hr.) ■

ECO 300: Macroeconomic Theory

(B) Analysis of factors determining national income, employment and production levels. Social accounting, comparative study of Keynesian and classical macrotheories, monetary and fiscal policy, and economic growth. Prerequisite: ECO 110. (3 cr. hr.) ■

ECO 301: Economics of the Firm

(A) Description and analysis of economics of firms, markets and competitive behavior. Stresses many microeconomic concepts discussed in context of profit and nonprofit organizations. Prerequisite: ECO 111. (3 cr. hr.) ■

ECO 303: History of Economic Thought

(O) Origins of contemporary economic thought. These origins are to be studied with particular reference to their historical and philosophic context. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 304: Comparative Economic Systems

(C) Analysis of differences in economic organization, public policy, and performance across countries. Differences in economic performance are discussed in terms of economic theory and actual outcomes. Emphasis on the differences among capitalist economic systems and between capitalist and non-capitalist systems. Problems with the evolution and transition of economies are discussed with examples from the former Soviet Union, China, and other socialist countries. Prerequisite: ECO 105, 110 or 111. (3 cr. hr.) ■

ECO 305: Political Economy of Globalization

(C) Key controversies surrounding modern globalization debates: History of global capitalism; theories of modern imperialism; transnational corporations and the struggle for labor and human rights; the World Trade Organization; the International Monetary Fund and the nation state; U.S. foreign policy; and global conflict over strategic resources. Prerequisite: ECO 105. (3 cr. hr.)

ECO 306: Comparative Approaches in Political Economy

(C) Analysis of differing approaches to key issues of concern to the U.S. and other economies within the emerging global economy. Course will build on the theoretical and empirical base introduced in ECO 105, and will address themes in political economy from several vantage points. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 307: Marxian Economics

(C) Principles of Marxian economic analysis from *Das Kapital* to present. Prerequisites: ECO 105 and junior standing or consent of department. (3 cr. hr.) ■

ECO 311: Economic Development

(C) Alternative roads to economic growth and development. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 312: Economic Development of Latin America

(C) Introduction to social, economic problems associated with process of economic development (or “underdevelopment”) in Latin America from perspectives of economic history and analysis of current economic issues. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 313: Economic Development of Asia

(C) Overview of economic history and current economic concerns of different subregions of Asia (East, Southeast, South Asia in particular). One or more countries will be emphasized, and specific economic issues of current interest will be analyzed. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 325: Political Economy of Women

(C) Political economic analysis of participation and status of women in the economy. Special emphasis is placed on analyzing labor force participation rates over time, historical trends in occupational sex segregation, wage differences based on sex, and women’s struggle for economic equality. Additionally, international, racial, and ethnic differences in the economic status of women are covered. Prerequisites: ECO 105 and 111. (3 cr. hr.) ■

ECO 326: Political Economy of Race and Class

(C) Examines the economic, historical and institutional forces that have seriously undermined the promise of equal opportunity for all people within the U.S. Topics include: contrasting views on discrimination in the labor market; racial and ethnic conflicts in the labor movement; de-industrialization and urban poverty; current debates on race and class in America. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 335: Resource and Environmental Economics

(C) Course explores relationship between our modern market economy and present ecological and environmental problems. Students are introduced to models of steady state and ecological economics in addition to more traditional approaches to issues of depletion (conservation) and allocation of renewable and nonrenewable resources, pollution, population and food production. Prerequisite: ECO 111. (3 cr. hr.) ■

ECO 340: Government and Business: Regulation and Public Policy

(C) Structure, conduct, performance of American industry; antitrust legislation, other aspects of public regulation and control; economic analysis of selected legal cases. Prerequisites: ECO 110, 111 and 301. (3 cr. hr.) ■

ECO 352: Finance

(A) Fundamentals of finance emphasizing the financing, investing, and financial management decisions made by businesses. Topics include financial markets and financial analysis, time value of money, asset valuation, risk and return, capital budgeting. Prerequisite: MGT 254. (3 cr. hr.) ■

ECO 366: The Economics of Sport

(B) Application of economic theory to professional and amateur sports. Topics include analysis of sports institutions, labor relations, and the role of government in sports markets. Prerequisites: ECO 111 and ECO 221 or MAT 201 or PSY 201, or COM 230. (3 cr. hr.) ■

ECO 383: Labor Economics

(C) Introduction to contemporary issues in labor relations. Topics include: modern dynamics of capitalist labor process, economic and social consequences of mechanization, wages determination, role of trade unions. Prerequisites: ECO 105 and ECO 110 or 111. (3 cr. hr.) ■

ECO 385: Human Resource Management

(C) Strategic role and functional responsibilities of human resource management in a multicultural society. Prerequisites: ECO 105, MGT 250. (3 cr. hr.) ■

ECO 393: Urban Economics

(O) Description and analysis of urban economy; urban location, land use theory; goals, processes, problems, policy in urban economic development. Prerequisites: ECO 110, 111. (3 cr. hr.) ■

ECO 400: Research Experience in Economics

(A) Supervised research experience in economics or business economics. Prerequisite: Junior or senior economics or business economics majors and consent of department. H, S, U grades assigned. May be repeated once for a maximum of six credit hours. (1-3 cr. hr.)

ECO 401: Co-op Education/Internship in Economics

(A) Field study program covering off-campus experiences in the area of applied economics. Open to economics majors or business economics majors only. Students must be in good academic standing and initiate the process through the Internships and Volunteer Office. Course offered on S, U grading system only. Prerequisite: Consent of department. (3 cr. hr.)

ECO 402: Seminar in Economics

(O) Examination, discussion of selected economic problems. (3 cr. hr.)

ECO 421: Econometrics

(C) Application of statistical techniques to analysis of economic data. Simple and multiple regression; structure of econometric models; distributed lags; forecasting. Prerequisite: ECO 221. (3 cr. hr.) ■

ECO 431: Money and Banking

(C) Money and economic activity: money and capital markets; monetary, income theory; central banking; elements of international finance; public policy issues. Prerequisites: ECO 110, 111, 300, 352, or consent of department. (3 cr. hr.) ■

ECO 432: Fiscal Economics

(C) Development and structure of modern public economy: economics of government taxation; spending, debt management; intergovernmental fiscal relations; fiscal theory; public policies, issues. Prerequisites: ECO 110, 111, 300. (3 cr. hr.) ■

ECO 441: International Trade

(C) Examination and discussion of why nations trade, barriers to trade, commodity composition, trade problems of developed and developing nations, selected topics. Prerequisites: ECO 111, and either ECO 105 or ECO 110. ECO 301 recommended. (3 cr. hr.) ■

ECO 443: International Finance

(C) Examination and discussion of exchange rate determination and adjustment; international monetary institutions and systems, balance of payments accounts, national income determination in open economy, selected topics. Prerequisites: ECO 110, and either ECO 105 or 111. ECO 300 is recommended. (3 cr. hr.) ■

ECO 452: Advanced Finance

(C) Examination and discussion of concepts introduced in ECO 352 and enhanced development of topics such as: capital budgeting, financial statement analysis, cash flow management, dividend policy, capital structure, working capital management, current asset management, mergers, acquisitions, divestiture and bankruptcy. Prerequisites: ECO 352. (3 cr. hr.) ■

ECO 455: Asset Markets

(C) Analysis of stock, bond, option and commodity markets and the federal tax treatment of gains and losses. Students learn relationships between different markets, between risks and rates of return, and between level of interest rates and level of asset prices. Prerequisites: ECO 111 and 352. (3 cr. hr.) ■

ECO 482: Labor Market Analysis

(C) Advanced course in labor economics, including in-depth analysis of supply and demand for labor, competitive wage determination, wage differentials, labor market segmentation. Contrasting perspectives are presented. Prerequisites: ECO 111 and either 301 or 383. (3 cr. hr.) ■

ECO 494: Regional Economics

(O) Process of regional economic growth: location theory, techniques of regional analysis; regional economic development problems and policies. Prerequisites: ECO 110, 111, 300, 301. (3 cr. hr.) ■

ECO 501: Workshop in Economics

(O) Discussion of economic problems with special attention to needs of social science teachers. Prerequisite: Consent of department. (3 cr. hr.) ■

Management Courses**MGT 250: Principles of Management**

(A) Management essentials of planning, organizing, staffing, controlling and leading; structure, functioning of organizations. (3 cr. hr.) ■

MGT 253: Principles of Marketing

(A) Introduction to marketing system; marketing principles and practice; application of marketing techniques. (3 cr. hr.) ■

MGT 254: Principles of Accounting I

(A) Introduction to basic accounting concepts and procedures. Topics include preparation of financial statements, depreciation policies, payroll accounting, present value theory. Does not fulfill requirements for economics major or minor. (3 cr. hr.)

MGT 255: Principles of Accounting II

(S) Corporate accounting practice. Topics include stock and bond transactions, working capital, financial and break-even analysis, and inflation-adjusted statements. Note: Not open to freshmen. Does not fulfill requirements for economics major or minor. Prerequisite: MGT 254. (3 cr. hr.)

MGT 265: Business Law

(A) Basic legal considerations in starting a business, acquiring assets, making contracts with suppliers and customers; applications in selected case studies. (3 cr. hr.) ■

MGT 360: Sport Marketing

(B) Application of marketing and market analysis techniques to sports. Topics include sport consumer behavior, demand analysis, strategic market planning, and sponsorship. Prerequisite: MGT 253. Also listed as SPM 360. (3 cr. hr.)

MGT 373: Sport Law and Organization

(A) Examination of the legal environment in which professional and amateur sports presently operate. Included will be aspects of contract law, labor law, constitutional law and antitrust law as they apply to the sport industry. Prerequisites: SPM 275 and MGT 250. Also listed as SPM 373. (3 cr. hr.)

MGT 423: Computer Applications in Economics and Management

(B) Problem-solving oriented course using spreadsheet and statistical software to analyze and solve economics and management problems. Prerequisites: ECO 110, 111, CAP 100. (3 cr. hr.)

MGT 454: Strategic Management

(A) Integrative study of strategic decision making in organizations. Application of economic and management concepts developed in prior course work; in addition, an intensive use of case studies will be incorporated. Prerequisites: senior status, ECO 352. (3 cr. hr.) ■

MGT 456: Co-op Education/Internship in Management

(A) Field study program covering off-campus experiences in area of management. Open to business economics majors only. Student is required to have a minimum grade point average of 3.0 and obtain a job with significant responsibilities. Student must initiate the process through the Internships and Volunteer Office. Course offered on S, U grading system only. Prerequisite: Consent of department. (3-16 cr. hr.)

Related Education Courses**AED 300: Introduction to Secondary Social Studies**

(S) Introduction to social studies education on the secondary level. Includes pre-student teaching field experience of 35 hours. Open only to junior SST majors meeting all departmental requirements. Prerequisite: AED 391. (1 cr. hr.)

AED 301: Pre-Practice Teaching Seminar

(F) Integrated study of: A) introduction to methods of teaching secondary social studies; B) introduction to contemporary issues in the teaching of secondary social studies; C) preparation for specific practice teaching assignment; D) 40-hours of field experience. Open only to senior SST majors meeting all departmental requirements. Prerequisites: AED 300 and 391. (6 cr. hr.)

AED 391: Introduction to Adolescence Education

(A) Students will develop a coherent and comprehensive personal educational philosophy; analyze the role of education and teachers in society; demonstrate an understanding of teacher certification standards and requirements; evaluate teaching, lesson planning and implementation and cooperative skills; and develop a portfolio. The course includes 25 hours of field observation/teaching experience. (3 cr. hr.)

AED 400: Student Teaching I: Adolescence Education Social Studies

(S) Full-time supervised adolescence education: social studies teaching experience in the public schools for eight weeks. This experience will be one of two school placements, at either the middle school/junior or high school level; the second experience must be at the other level. Prerequisites: AED 300, 301 and 391. Corequisites: AED 401 and 402 must be taken in the same semester. Open only to senior SST majors meeting all departmental requirements. S, U grades are assigned. (7 cr. hr.)

AED 401: Student Teaching II: Adolescence Education Social Studies

(S) Full-time supervised adolescence education: social studies teaching experience in the public schools for seven weeks. This experience will be one of two school placements, at either the middle school/junior high or high school level; the second experience must be at the other level. Prerequisites: AED 300, 301 and 391. Corequisites: AED 400 and 402 must be taken in the same semester. Open only to senior SST majors meeting all department requirements. S, U grades are assigned. (7 cr. hr.)

AED 402: Student Teaching Seminar

(S) Problem approach drawing upon experience of students during practice teaching. Designed to focus on contemporary educational issues, beginning the job search and application process, teaching and learning at the middle and high school level, and exploring the history and philosophy of teaching. Prerequisites: AED 300, 301 and 391. Corequisites: AED 400 and 401 must be taken in the same semester. Open only to senior SST majors meeting all departmental requirements. S, U grades are assigned. (1 cr. hr.)

English

DEPARTMENT

Old Main, Room 112
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www.cortland.edu/english

SCHOOL

Arts and Sciences

FACULTY

Karla Alwes (Chair), Ross Borden, Victoria Boynton, Amy Burtner, Wesley Clymer, Vaughn Copey, Mark DiCicco, Tim Emerson, David Faulkner, David Franke, Marni Gauthier, Alexander Gonzalez, T. Ellen Hill, Mary Lynch Kennedy, Denise D. Knight, Kathy Lattimore, Matthew Lessig, Gailanne Mackenzie, Noralyn Masselink, Edward McCorduck, Homer Mitchell, Nicola Morris, Emmanuel Nelson, Lisa Neville, Alex Reid, Linda Rosekrans, Cynthia Sarver, Karen Stearns, John Suarez, Paul Washburn, Laureen Wells-Weiss, Anne Wiegard, Janet Wolf

ADJUNCT FACULTY

For a listing of adjunct faculty see pages 312-315.

PROGRAMS OFFERED

Bachelor of Arts in English
Bachelor of Arts in Adolescence Education: English (7-12)
Bachelor of Arts in Professional Writing

MAJORS OFFERED

English
Adolescence Education: English (7-12)
Professional Writing

MINORS OFFERED

English with emphasis areas in: Literature, Language and Literature, Literature and Writing, Professional Writing

DESCRIPTION

English study involves an exploration of human values and the nature of their literary expression, and of the use of the language and the cultural background that shapes it. Courses in English are intended to help students read with understanding and enjoyment and write with skill and grace.

English Honors Program: Students having a grade point average of at least 3.1 in English studies may be invited to pursue an honors program designed to stimulate independent work of a high critical and imaginative order. The program involves the “challenging for honors” in two advanced courses and the writing of a senior thesis. Students may take any English class for honors credit, with approval of the instructor of the course. Sigma Tau Delta is the national English honors society. A local chapter is housed in the English Department.

Requirements

1. Degree Requirements listed on pages 38-48 of this catalog apply to all of the following majors.
2. Liberal Arts Requirements: 90 credit hours.

Major in English [ENG]

The following courses meet the College’s requirement for the bachelor of arts and the major in English. The bachelor of arts requires proficiency in a foreign language.

CAREER POTENTIAL

- Teacher
- Librarian
- Data Analyst
- Editor
- Administrator
- Lawyer
- Researcher
- Speech Writer
- Publisher

A. Required Courses: 21 credit hours

- ENG 203: Introduction to Poetry *
- ENG 302: Writing About Literature*
- ENG 325: American Literature before 1900
- ENG 326: American Literature since 1900
- ENG 355: Major Figures in British Literature to 1780
- ENG 356: Major Figures in British Literature 1780-Present

One course in literature before 1800 from the following
The English Department strongly urges students to take ENG 433: Shakespeare to fulfill this requirement.

- ENG 433: Shakespeare
- ENG 438: Seventeenth-Century Poetry and Prose
- ENG 440: The Age of Satire
- ENG 441: The Age of Sensibility
- ENG 442: Restoration and Eighteenth-Century Drama

For those who meet eligibility requirements, this requirement may also be met with one of the following 500-level courses:

- ENG 530: Chaucer
- ENG 538: Studies in Seventeenth-Century English Literature
- ENG 539: Milton

B. Other English Courses: 15 credit hours of literature courses with at least 12 credit hours at the 400 level

** English majors must pass ENG 203 and ENG 302 with a grade of C- or better.*

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Adolescence Education: English (7-12) [AEE/AEN]

The major leads to New York State certification to teach English in grades 7-12. The bachelor of arts requires proficiency in a foreign language.

CAREER POTENTIAL

- High school teacher
- Junior high school teacher
- Educational researcher

A. Required Content Courses: 36 credit hours

- ENG 203: Introduction to Poetry
 ENG 307: Computer Technology in the Classroom
 ENG 325: American Literature Before 1900
 ENG 326: American Literature Since 1900
 ENG 355: Major Figures in British Literature to 1780
 ENG 356: Major Figures in British Literature 1780 to Present
 ENG 374: Literature for Adolescence
 ENG 411: World Literature
 ENG 407: Study of the English Language
 ENG 433: Shakespeare
 ENG 4__ : Additional course in literature before 1800
 Choose one from the following:
 ENG 438: Seventeenth-Century Poetry and Prose
 ENG 440: The Age of Satire
 ENG 441: The Age of Sensibility
 ENG 442: Restoration and Eighteenth-Century Drama

- ENG ___ : An elective in ethnic or multicultural literature
 Choose one from the following:
 ENG 251: Introduction to African-American Literature
 ENG 252: Introduction to Modern American Multicultural Literature
 ENG 256: Introduction to American Indian Literature
 ENG 261: Introduction to Women in Literature
 ENG 352: Early African-American Literature
 ENG 353: Recent African-American Literature
 ENG 421: African-American Autobiography
 ENG 422: American Women Writers
 ENG 423: American Fiction Since 1940
 ENG 425: African-American Women Novelists
 ENG 475: American Multicultural Literature

B. Required Professional Courses: 41-42 credit hours

- PSY 101: General Psychology I
 PSY 232: Adolescent Psychology *or*
 PSY 332: Educational Psychology
 HLH 110: Personal and Community Health *or*
 HLH 199: Critical School Health Issues *or*
 HLH 510: ProSeminar in Health Foundations
 AED 308: Grammar and the Writing Process
 AED 309: Participant-Observer Experience: Writing Process
 AED 341: Introduction to English Language Arts
 AED 408: Teaching Writing
 AED 409: Participant Observer Experience: Teaching Writing
 AED 441: Methods of Teaching Literature and Critical Literacy
 AED 376: Student Teaching in the Middle School
 AED 377: Student Teaching in the Secondary School
 EDU 471: Foundations of Modern Education
 Child Abuse Identification and Reporting (CAR) workshop (no credit)
 School Violence Prevention and Intervention (SAVE) workshop (no credit)

Total number of program credits: 77-78

C. AEE/AEN Coding Policy

Students will be coded as AEE/AEN-W until they have achieved a 2.75 overall grade point average or better and are ready to begin junior year, at which point they need to apply to the director of adolescence education: English (7-12) for candidacy. Transfer students will retain the AEE/AEN-W coding until they have successfully completed CPN 101, ENG 203, three of the four survey courses (ENG 325, 326, 355, 356), PSY 101, three of their four semesters of foreign language, and seven out of 10 SUNY General Education requirements. Because the AEE/AEN code is required before students will be admitted into the junior year courses with attached fieldwork, transfer students coming in with junior status who have not completed the above requirements will begin AED courses in the fall semester of their senior year, and must student teach in the fall semester thereafter for a December degree.

D. 100 Hours Early/Pre-Student Teaching Fieldwork Policy

Candidates must have achieved a 2.75 or better overall grade point average by the end of the semester prior to the junior year. Students failing to meet this standard are ineligible to take junior-year courses with attached early fieldwork. Students who fall below a 2.75 grade point average while registered for any AED courses will automatically be de-registered from those courses. In such a case, the registrar will maintain the student at his or her original level of registered credits, but the student is responsible with the help of an advisor to re-register for appropriate substitute courses before the close of that semester's billing cycle. Candidates acquire 50 hours of early fieldwork in conjunction with each of the following courses:

- AED 309 taken in conjunction with AED 308
- AED 409 taken in conjunction with AED 408

E. Student Teaching Policy

To be eligible for the professional semester, which is offered for undergraduates only in the fall (unless granted departmental approval), students must complete the following requirements:

- 21 hours of English, including ENG 203, three of the four survey courses (325, 326, 355, 356), 374 and 433.
- PSY 101; PSY 232 or 332; HLH 110, 199, or 510; AED 308, 309, 408, 409, 341, 441 and the Child Abuse Identification and Reporting (CAR) workshop.

Required grade point average: Students must have a cumulative grade point average of 2.75 in all courses to be able to student teach during fall of senior year. Students must meet all requirements for eligibility to student teach by the end of the semester prior to the semester they are scheduled to student teach. Additional work in summer school or independent study cannot be used to remedy deficiencies. Students with incompletes at the end of the semester prior to student teaching will be ineligible to student teach. If they meet all requirements at the end of the next semester, they can reapply for eligibility and be put on a waiting list to student teach.

F. Departmental Policy on Retaking Required Courses

Students may retake no more than two required courses. They may retake these courses only once.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124-128

Major in Professional Writing [PWRT]

CAREER POTENTIAL

- Technical writer
- Publications writer
- Lawyer
- Freelance writer

Professional writing courses to total 34 credit hours:

- A. Required Courses: 25 credit hours
 PWR 209: Writing in Cyberspace I
 PWR 295: Introduction to Professional Writing
 PWR 393: Technical Writing
 PWR 395: Revising and Editing
 PWR 399: Rhetoric
 PWR 495: Internship in Professional Writing
 PWR 497: Senior Seminar in Professional Writing
 One course in creative writing: PWR 212, 213 or 315
- B. At least nine hours of elective professional writing courses, six hours at the 400 level.
- C. Additional Courses: 12 credit hours
 English courses: Nine credit hours with at least six credit hours at the 300 level or higher.
 Philosophy course in ethics: PHI 203, 240 or 382

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Minor in English with an emphasis in Literature [ENL]

Eighteen credit hours of courses in literature with at least nine credit hours at the 400 level, selected in consultation with an advisor.

Choose from: ENG 200, 202, 203, 204, 220, 221, 250, 251, 252, 256, 257, 260, 261, 262, 263, 278, 280, 325, 326, 352, 353, 355, 356, 373, 374, 411, 417, 418, 419, 420, 421, 422, 423, 425, 433, 438, 440, 441, 442, 445, 446, 455, 456, 457, 458, 464, 470, 471, 472, 475

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Minor in English with an emphasis in Language and Literature [ENLL]

Required Courses: Six credit hours

- ENG 201: Introduction to Language Studies
- ENG 402: Grammar

Twelve elective credit hours in literature with at least six credit hours at the 400 level — refer to list above

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Minor in English with an emphasis in Literature and Writing [ENLW]

At least nine credit hours in literature, with at least three credit hours at the 400 level

At least nine credit hours in writing, with at least three credit hours at the 400 level

Of the 18 credit hours required for the minor, a total of nine credit hours must be at the 400 level.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Minor in Professional Writing [PWRT]

A. Required Courses: Three credit hours

PWR 295: Introduction to Professional Writing

B. Fifteen elective credit hours in Professional Writing (PWR) with a minimum of nine credit hours at the 300 level or above.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Example of the B.A. in English over four years

First Year	Second Year
<p><i>Fall</i></p> <p>CPN 100 or 102 Foreign language GE 1 GE 4 Free elective COR 101 Total credit hours: 16-17</p> <p><i>Spring</i></p> <p>CPN 101 or 103 Foreign language GE 3 MAT (Quantitative Skills) ENG 203 (GE 6) Total credit hours: 15-16</p>	<p><i>Fall</i></p> <p>Foreign language ENG 325 ENG 355 ENG 302 GE 8 Total credit hours: 15-16</p> <p><i>Spring</i></p> <p>Foreign language ENG 326 ENG 356 GE 7 GE 8 Total credit hours: 15-16</p>
Third Year	Fourth Year
<p><i>Fall</i></p> <p>ENG (400 level) ENG elective GE 5 Course in minor Elective Total credit hours: 15</p> <p><i>Spring</i></p> <p>ENG literature before 1800 ENG (400 level) Course in minor GE 2 Elective Total credit hours: 15</p>	<p><i>Fall</i></p> <p>ENG (400 level) Course in minor Course in minor Elective Elective Total credit hours: 15</p> <p><i>Spring</i></p> <p>ENG (400 level) Course in minor Course in minor Elective Elective Total credit hours: 15</p>

Suggested sequence for the B.A. in Adolescence Education: English (7-12)

Note: All ENG and AED courses listed below are required. AED courses are offered only in the semester indicated.

First Year	Second Year
<p><i>Fall</i></p> <p>COR 101 CPN 100 or 102 GE 1 GE 3 GE 4 Foreign language or free elective*</p> <p>Total credit hours: 16-18</p> <p><i>Spring</i></p> <p>CPN 101 or 103 MAT (Quantitative Skills) GE 5 GE 6 (ENG 203) Foreign language or free elective*</p> <p>Total credit hours: 15-16</p>	<p><i>Fall</i></p> <p>PSY 101 ENG 325 ENG 355 GE 8a Foreign language or free elective*</p> <p>Total credit hours: 16</p> <p><i>Spring</i></p> <p>GE 8b ENG 326 ENG 356 HLH 110, 199 or 510 PSY 232 or 332 Foreign language or free elective*</p> <p>Total credit hours: 17-18</p>
<p>Prerequisite for third-year courses: 2.75 grade point average</p> <p>Third Year*</p> <p><i>Fall</i></p> <p>AED 308 AED 309 AED 341 ENG 374 ENG 433</p> <p>Total credit hours: 15</p> <p><i>Spring</i></p> <p>AED 408 AED 409 AED 441 ENG 407 ENG 411 Child Abuse Identification and Reporting workshop School Violence Prevention and Intervention workshop</p> <p>Total credit hours: 15</p>	<p>Prerequisite for student teaching: 2.75 grade point average</p> <p>Fourth Year*</p> <p><i>Fall</i></p> <p>AED 376 AED 377</p> <p>Total credit hours: 12</p> <p><i>Spring</i></p> <p>GE 2 GE 7 EDU 471 ENG 307 ENG elective in ethnic or multicultural literature ENG 4__ course in literature before 1800</p> <p>Total credit hours: 18</p>

*A free elective may be chosen only if the foreign language requirement is satisfied.

Credit hours required for the B.A. [AEE/AEN]: 124-128
Final grade point average must be 2.75 or better

Example of the B.A. in Professional Writing over four years

First Year	Second Year
<p><i>Fall</i></p> <p>Foreign language CPN 100 or 102 GE 1 CAP COR 101 MAT (Quantitative Skills)</p> <p>Total credit hours: 16-17</p> <p><i>Spring</i></p> <p>Foreign language CPN 101 or 103 GE 2 GE 3 GE 8a</p> <p>Total credit hours: 16-17</p>	<p><i>Fall</i></p> <p>PWR 209 PWR 295 Foreign language GE 4 GE 8b</p> <p>Total credit hours: 16-18</p> <p><i>Spring</i></p> <p>PWR 212, 214 or 315 Foreign language GE 6 Philosophy elective English elective Minor or elective</p> <p>Total credit hours: 18</p>
Third Year	Fourth Year
<p><i>Fall</i></p> <p>PWR 395 PWR 399 GE 5 GE 7 Minor or elective Minor or elective</p> <p>Total credit hours: 18</p> <p><i>Spring</i></p> <p>PWR 393 PWR elective PWR elective English elective English elective</p> <p>Total credit hours: 15</p>	<p><i>Fall</i></p> <p>PWR 495 Minor, elective or internship Minor, elective or internship Minor, elective or internship Minor, elective or internship</p> <p>Total credit hours: 15</p> <p><i>Spring</i></p> <p>PWR 497 PWR elective PWR elective Minor or elective Minor or elective Minor or elective</p> <p>Total credit hours: 15</p>

English

COURSE DESCRIPTIONS

CPN 100: Academic Writing I

(A) Introduction to college writing. Students learn basic expository strategies for writing thoughtful papers based on ideas they have developed themselves and information they have obtained from reading sources. (3 cr. hr.) ■

CPN 101: Academic Writing II

(A) Focuses on analysis, synthesis, argument, and research. Students learn to analyze and critique readings, produce essays based on multiple sources, and conduct library research. Prerequisite: A grade of C- or better in CPN 100 or 102. (3 cr. hr.) ■

CPN 102: Academic Writing in the Community I

(A) Introduction to college writing with a service learning internship. Students learn expository strategies for writing thoughtful papers based on ideas they have developed themselves and information they have obtained from reading sources. Not open to students with credit for CPN 100. Three lectures, one two-hour field experience. (4 cr. hr.) ■

CPN 103: Academic Writing in the Community II

(A) Focuses on analysis, synthesis, and research with a service learning internship. Not open to students with credit for CPN 101. Three lectures, one two-hour field experience. Prerequisite: A grade of C- or better in CPN 100 or 102. (4 cr. hr.) ■

Note: Successful completion of CPN 100 or CPN 102 is prerequisite to all courses in English. CPN 101 or CPN 103 may be taken concurrently with any 200-level literature course. For English and adolescence education majors, ENG 203 is prerequisite for 300-level literature courses.

ENG 200: Introduction to Literature

(A) Introduction to systematic study of literature. Emphasis on fiction, with attention to poetry and drama. (3 cr. hr.) ■

ENG 201: Introduction to Language Study

(B) Concepts, scope, methodology of science of language. Principles of descriptive and historical linguistics. Geographical, historical, social dialects of English. Also listed as ANT 251 and COM 211. (3 cr. hr.) ■

ENG 202: Introduction to Fiction

(A) Introduction to reading and analysis of short story, novella, novel. (3 cr. hr.) ■

ENG 203: Introduction to Poetry

(A) Introduction to reading and analysis of poetry. (3 cr. hr.) ■

ENG 204: Introduction to Drama

(B) Introduction to basics of theatrical literature. (3 cr. hr.) ■

ENG 220: Introduction to Western Literature I

(O) Major phases of literary heritage of Western World from Classical Age to Renaissance. (3 cr. hr.) ■

ENG 221: Introduction to Western Literature II

(O) Major phases of literary heritage of Western World from Enlightenment to Modern Period. (3 cr. hr.) ■

ENG 229, 329, 429, 529: Special Topics in English

Selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for content and academic level of credit. (1-4 cr. hr.)

ENG 250: Introduction to Jewish Authors

(B) Introduction to Jewish themes in American literature and in translation from Yiddish. Also listed as JST 250. (3 cr. hr.) ■

ENG 251: Introduction to African-American Literature

(O) Survey of African-American literature: representative novels, poetry, drama from various time periods. Also listed as AAS 251. (3 cr. hr.) ■

ENG 252: Introduction to Modern American Multicultural Literature

(O) Introduction to prose, poetry, and drama that reflects the diverse ethnic, cultural, and social worlds of North America and the Caribbean today. (3 cr. hr.) ■

ENG 256: Introduction to American Indian Literature

(C) Introduction to "Native American" culture through analytical appreciation of its oral and written literature. (3 cr. hr.) ■

ENG 257: Introduction to Irish Literature

(O) Introduction to Irish writers and their themes. Readings include some translations from Irish to English. Poetry, fiction, and drama will be included. (3 cr. hr.) ■

ENG 258: Irish Women Writers

(C) Introduction to the work of Ireland's women writers in all three genres: drama, poetry and fiction. Prerequisite: CPN 101 or 103, which may be taken concurrently. (3 cr. hr.)

ENG 260: Literature of Sports

(O) Philosophical, psychological, sociological ideas and problems associated with growing emphasis on sport in modern life. (3 cr. hr.) ■

ENG 261: Introduction to Women in Literature

(B) Study of literary portrayal of women by female and male authors of different periods and nationalities. (3 cr. hr.) ■

ENG 262: War in Literature

(O) Literary portrayal of war in Western literature from antiquity to present. (3 cr. hr.) ■

ENG 263: Ethical Issues in Literature

(O) Issues concerning moral and social law as reflected in the literature of various western cultures and historical backgrounds. (3 cr. hr.) ■

ENG 278: Introduction to Film and Short Fiction

(O) Introduction to analysis, interpretation of films and short fiction through study of selected short stories, novelettes, film scripts, films. Also listed as CIN 278. (3 cr. hr.) ■

ENG 280: Introduction to Mythology and the Bible

(O) Survey of major characters and events in classical mythology and the Bible. (3 cr. hr.) ■

Note: For non-majors, successful completion of a 200-level English course is prerequisite to all 300- and 400-level courses. For English and adolescence education majors, three credit hours in ENG 325, 326, 355, or 356 are prerequisite to 400-level literature courses. Specific prerequisites to professional writing courses are listed with catalog course descriptions.

ENG 300: Writing in Cyberspace

(B) Application of effective rhetorical principles and effective writing techniques for composing and revising multimedia texts in this hands-on lab oriented class. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

ENG 301: Creative Writing

(O) Study and writing assigned according to students' interest in one or both genres of poetry and the short story. May be repeated once with consent of instructor. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

ENG 302: Writing About Literature

(A) Strategies for writing about fiction, poetry and drama. Introduction to various critical perspectives for contextualizing literature. Emphasis on understanding, summarizing, evaluating, and synthesizing critical arguments. (3 cr. hr.) ■

ENG 304: Introduction to Play and Script Writing

(O) Practical and theoretical instruction in basics of play and script writing. Also listed as CIN 304. (3 cr. hr.) ■

ENG 305: Film Criticism

(O) Close study of a number of selected films, domestic and foreign, from aesthetic, technical perspectives. Extensive writing of reviews, critiques aimed at different media. High level of writing proficiency expected. Consent of instructor. Also listed as CIN 305. (3 cr. hr.) ■

ENG 306: Advanced Writing Workshop

(A) Advanced writing course focusing on genres of literary non-fiction, fiction, poetry, and modes of exposition and argument. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

ENG 307: Computer Technology in the Classroom

(B) Students will study the application of computer technology to the composing process and assist English instructors in composition classes. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

ENG 325: American Literature Before 1900

(A) Representative works of major writers of the Puritan Age, the Age of Reason, the Romantic Age, and the Age of Realism and Regionalism. (3 cr. hr.) ■

ENG 326: American Literature Since 1900

(A) Representative works of major writers of the Age of Naturalism, the Age of Modernism, and the Postmodern Age. (3 cr. hr.) ■

ENG 352: Early African-American Literature

(O) African-American writing before World War II. Emphasis on critical reactions, analysis. Slave narrative, autobiography, rhetoric, fiction, poetry included. Prerequisite: AAS 251 or ENG 251. Also listed as AAS 352. (3 cr. hr.) ■

ENG 353: Recent African-American Literature

(O) African-American experience in America as reflected since World War II in works of outstanding Black American writers: fiction, nonfiction, poetry, drama. Prerequisite: AAS 251 or ENG 251. Also listed as AAS 353. (3 cr. hr.) ■

ENG 355: Major Figures in British Literature to 1780

(A) From Chaucer to the Romantics, including Spenser, Shakespeare, Donne, Milton, Dryden, Swift, Pope, Fielding. (3 cr. hr.) ■

ENG 356: Major Figures in British Literature 1780-Present

(A) From Blake to the present including such writers as Wordsworth, Coleridge, Keats, Browning, Hardy, Yeats, Joyce, Woolf, Auden. Prerequisite: ENG 355. (3 cr. hr.) ■

ENG 373: Literature for Children

(A) Understanding, critical appreciation of books for elementary school pupils. (3 cr. hr.) ■

ENG 374: Literature for Adolescence

(B) Critical study, examination and evaluation of literature written specifically for and about adolescents, including the canon of young adult literature. (3 cr. hr.) ■

ENG 402: Grammar

(B) Intensive study of grammar, focusing on phonology, morphology, and syntax; understanding of language acquisition; and development of instructional strategies. (3 cr. hr.) ■

ENG 407: Study of English Language

(S) Study of language and literacy acquisition and development; diversity in language use, historical and social influences on language, and second language and bilingual learning (3 cr. hr.) ■

ENG 411: World Literature

(B) Survey of the writing of World literature from the beginning to the present day (3 cr. hr.) ■

ENG 417: The Romantic Age in American Literature

(O) Such writers as Cooper, Poe, Hawthorne, Melville, Emerson, Thoreau and Whitman. (3 cr. hr.) ■

ENG 418: Realism and Naturalism in American Literature

(O) From Civil War to Twenties. (3 cr. hr.) ■

ENG 419: American Fiction of the Twenties and Thirties

(O) Studies in important American prose writers from the Twenties to World War II. (3 cr. hr.) ■

ENG 420: Modern American Poetry

(O) Important poets from 1914 to present. (3 cr. hr.) ■

ENG 421: African-American Autobiography

(O) Autobiographical narratives of Douglass, Washington, Hughes, Wright, Baldwin, Malcolm X, Moody, Angelou. (3 cr. hr.) ■

ENG 422: American Women Writers

(O) Representative works, from the late 18th Century to the present. (3 cr. hr.) ■

ENG 423: American Fiction Since 1940

(O) Important American prose writers from the forties to present. (3 cr. hr.) ■

ENG 425: African-American Women Novelists

(O) Study of African-American women's tradition in American literature. Focus on the representative works of Wilson, Harper, Hurston, Larson, Petry, Morrison, Naylor, Walker. Also listed as AAS 425. (3 cr. hr.) ■

ENG 433: Shakespeare

(A) Dramatic effectiveness, structure, characterization, and poetry in selected group of Shakespeare plays. (3 cr. hr.) ■

ENG 438: Seventeenth-Century Poetry and Prose

(C) Literature of the late Renaissance, 1590-1660; selected works of metaphysical (Donne, Herbert, Vaughan) and/or cavalier (Jonson, Herrick, Marvell) writers and their contemporaries. (3 cr. hr.) ■

ENG 440: The Age of Satire

(O) Restoration and Augustan prose, poetry, drama; Dryden, Swift, Pope, and their contemporaries with attention to precursors and subsequent developments. (3 cr. hr.) ■

ENG 441: The Age of Sensibility

(O) Pre-Romantic poetry: Thomson, Gray, Collins; Sentimentalism in the novel and drama; Sterne, Sheridan, Goldsmith; criticism and biography of Johnson, Boswell. (3 cr. hr.) ■

ENG 442: Restoration and Eighteenth-Century Drama

(O) Drama written and performed in England from 1660 to 1800. (3 cr. hr.) ■

ENG 445: The Romantic Age

(O) Major writers of Romantic period of England. (3 cr. hr.) ■

ENG 446: The Victorian Age

(O) Selected works of Victorian writers studied in relation to intellectual movements of period. (3 cr. hr.) ■

ENG 455: The English Novel to 1900

(O) From the beginnings to 1900. (3 cr. hr.) ■

ENG 456: Modern Irish Drama

(O) Representative works of selected modern Irish playwrights such as Synge, Yeats, O'Casey, Johnston, Carroll, Beckett, Behan, Friel and Murphy. (3 cr. hr.) ■

ENG 457: Modern Irish Fiction

(O) Representative works of selected modern Irish novelists and short-story writers — for example: Moore, O’Kelly, Stephens, Joyce, O’Connor, O’Faolain, Murdoch, Trevor. (3 cr. hr.) ■

ENG 458: Modern Irish Poetry

(O) Representative works of selected modern Irish poets, such as Yeats, Heaney, Boland, and McGuckian. (3 cr. hr.) ■

ENG 464: Modern Russian Literature 1860-1960

(O) Representative works in translation of selected Russian writers; novel, short story, drama; Tolstoy, Turgenev, Dostoevsky, Chekhov, Pasternak. (3 cr. hr.) ■

ENG 470: Modern British Poetry

(O) Poetry since 1890 written in England and Ireland. (3 cr. hr.) ■

ENG 471: The Modern English Novel

(O) Important English novels since 1900. (3 cr. hr.) ■

ENG 472: Modern Drama

(O) Important plays since 1875 written in America, England, Ireland and Europe. (3 cr. hr.) ■

ENG 475: American Multicultural Literature

(C) Close readings of representative texts by major 20th-century American writers of color. Prerequisite: Any 200-level English course. Also listed as AAS 470. (3 cr. hr.) ■

ENG 498: Independent Study

(O) Prerequisite: Approval of English Department Honors Committee. (3 cr. hr.)

ENG 499: Senior Thesis

(O) Prerequisites: Completion of at least three credits in honors studies, approval of English Department Honors Committee. (3 cr. hr.)

CPN 100 or 102 and CPN 101 or 103 and nine credits of literature, including one course at the 400 level, and junior, senior or graduate status are prerequisite to 500-level literature courses.

ENG 500: Old English

(O) Phonemic and grammatical structures of Old English; translation and analyses of selected West-Saxon texts; general background reading in history of English language, major trends in Old English literature. (3 cr. hr.)

ENG 506: Computers and the Study of English

(B) Introduces graduate students, particularly students who plan to teach or are currently teaching English at middle school, secondary school, or adult levels, to computer tools and environments that complement the study of literature, language, rhetoric, and composition. (3 cr. hr.)

ENG 530: Chaucer

(O) Poetry of Chaucer in Middle English; emphasis upon literary rather than linguistic aspect of his work. (3 cr. hr.)

ENG 538: Studies in Seventeenth-Century English Literature

(O) Intensive study of a few authors or literary movement from roughly 1600 to 1660. May be repeated as subtitle changes. (3 cr. hr.)

ENG 539: Milton

(O) Poetry and prose. (3 cr. hr.)

ENG 547: 19th Century British Women Writers

(O) Course will focus on the British women writers of the 19th century, with attention to the genres of the era – novel, poetry, essay. (3 cr. hr.)

ENG 548: Studies in British Literature 1950-Present

(O) Study of selected author(s), theme, genre or movement of the period. (3 cr. hr.)

ENG 549: Studies in Irish Literature

(O) Intensive study of a few authors or of literary movements in Irish literature, such as the Irish Renaissance. May be repeated as subtitle changes. (3 cr. hr.)

Related Education Courses**AED 308: Grammar and the Writing Process**

(F) Engagement in the various stages of the writing process while determining the appropriate role of grammar in the language arts curriculum. Prerequisites: ENG 203, 2.75 grade point average, junior status. Corequisites: AED 309, 341, (3 cr. hr.) ■

AED 309: Participant-Observer Experience: Writing Process

(F) A 50-hour field experience, supervised by the course instructor. Prerequisites: ENG 203, 2.75 grade point average, junior status, Permission of the department. Corequisites: AED 308, 341. (3 cr. hr.)

AED 310: Grammar and the Writing Process

(A) Engagement in the various stages of the writing process while determining the appropriate role of grammar in the Language Arts Curriculum through readings and practice. Prerequisite: CPN 101 or 103; 2.75 grade point average for AEE majors; corequisite for AEE majors: AED 311. (3 cr. hr.) ■

AED 311: Participant-Observer Experience: Writing Process

(F) A 30-hour field experience supervised by the course instructor. Prerequisite: CPN 101 or 103; 2.75 grade point average; corequisite: AED 310. (1 cr. hr.)

AED 341: Introduction to English Language Arts

(F) This course brings together literature, composition, language and general material on teaching methods. Course goals include progress towards an integrated knowledge of constructivist learning theory, related teaching practices, and preparation for student teaching, as well as up-to-date approaches for working with ESL and special needs students in inclusive classrooms. Prerequisite: 2.75 grade point average in English. (3 cr. hr.)

AED 376: Student Teaching in English in the Middle School

(F) Supervised student teaching in a middle school. Prerequisites: AED 408, 409, 441; 2.75 grade point average. Corequisite: AED 377. S, U grades assigned. (6 cr. hr.)

AED 377: Student Teaching in English in the High School

(F) Supervised student teaching in the high school. Prerequisites: AED 408, 409, 441; 2.75 grade point average. Corequisite: AED 376. S, U grades assigned. (6 cr. hr.)

AED 385: Participant-Observer Experience

(F) Students will systematically observe the main components of the teaching and learning process in order to develop the reflective disposition needed to make wise instructional decisions, and to complete the 40 remaining hours of the pre-service fieldwork requirements. Corequisites: AED 386, 387. S, U grades are assigned. (1 cr. hr.)

AED 386: Student Teaching in English in the Middle Schools

(F) Supervised student teaching in the middle school. Corequisites: AED 385, 387. S, U grades are assigned. (7 cr. hr.)

AED 387: Student Teaching in English in the High School

(F) Supervised student teaching in the high school. Prerequisites: AED 441. Corequisites: AED 385, 386. S, U grades are assigned. (7 cr. hr.)

AED 404: Teaching Writing

(S) Instructional strategies, curriculum planning, and assessment techniques for the teaching of writing in middle and secondary schools. Three lectures, one two-hour laboratory/field experience. Prerequisite: AED 310, 311 and 341; Combined grade point average of 2.75 in adolescence education and English. (4 cr. hr.) ■

AED 408: Teaching Writing

(S) Instructional strategies, curriculum planning, and assessment techniques for the teaching of writing in the middle and secondary schools. Prerequisites: AED 308, 309 and 341; 2.75 grade point average. Corequisites: AED 409 and 441. (3 cr. hr.) ■

AED 409: Participant-Observer Experience: Teaching Writing

(S) A 50-hour field experience, supervised by the course instructor. Prerequisites: AED 308, 309 and 341; permission of the department. Co-requisites: AED 408 and 441. (3 cr. hr.)

AED 441: Methods of Teaching Literature and Critical Literacy

(S) Integration of the teaching of literature and critical literacy. Lesson planning, instructional strategies, and teaching with Educational standards are emphasized, as are theory and related strategies for helping students apply critical reading and writing skills to a range of literacy genres and levels of interpretation.. Prerequisite: AED 310, 311 and 341; combined grade point average of 2.75 in adolescence education and English. (3 cr. hr.)

EDU 471: Foundations of Modern Education

(A) Social, historical and philosophical issues in education. Emphasis on critical analysis of educational reforms, movements and practices. (3 cr. hr.)

Professional Writing**PWR 209: Writing in Cyberspace I**

(B) Introduction to the relationship between traditional conceptions of writing and contemporary theories of new media. Three lecture hours and a two-hour lab. Prerequisite: CPN 101 or 103. (4 cr. hr.)

PWR 212: Writing Fiction

(C) In a workshop environment, students practice writing skills with an emphasis on the short story. Prerequisite: ENG 200 or 202. (3 cr. hr.) ■

PWR 213: Writing Poetry

(B) In a workshop environment, students will practice techniques and strategies for making poetry a personal form of discourse. Prerequisite: ENG 203. ■

PWR 295: Introduction to Professional Writing

(B) Introduces students to the principles of writing in a range of professional genres and presents options that they may pursue in future course work and careers. (3 cr. hr.) ■

PWR 309: Writing in Cyberspace II

(B) Continuation of the practices introduced in Writing in Cyberspace I through an analysis of the relationship between writing and advanced concepts of new media. Three lecture hours and a two-hour lab. Prerequisite: PWR 209. (4 cr. hr.) ■

PWR 315: Writing Creative Non-Fiction

(O) Workshop-based study of creative nonfiction with focus on topical subtitles such as nature writing, travel writing, memoir, etc., from the point of view of the writer. Focus changes with subtitle. Prerequisite: CPN 101 or 103. (3 cr. hr.)

PWR 323: Writing Children's Literature

(O) Writing and illustrating children's literature. (3 cr. hr.) ■

PWR 324: Grantwriting

(O) The practice of proposal writing and the political and social aspects of "grantmanship." Students identify sources of funding, do research to support their proposals and address specific audience interests. Prerequisite: CPN 101 or 103. (3 cr. hr.)

PWR 340: Writing Sports Literature

(C) Students examine the literature of sports and compose expository essays on the subject of sports. Prerequisite: CPN 101 or 103. (3 cr. hr.)

PWR 393: Technical Writing

(B) Strategies for effective technical communication. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

PWR 395: Revising and Editing

(B) Students will examine theories of revising and editing. In workshops students will learn strategies for revision, effective editing and proofreading. (3 cr. hr.) ■

PWR 398: Business Writing

(C) Principles of effective communication, focusing on how to choose appropriate organizational plans for a variety of messages, how to write from a "you" perspective and understand audience psychology, and how to format messages for effective visual impact. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

PWR 399: Rhetoric

(O) Provides fundamental theory about how writing exerts powerful influences on audiences. Students will explore the situations and purposes that writing serves and the voices and genres that historically have defined written texts. (3 cr. hr.) ■

PWR 409: The Evolution of Writing

(O) A study of writing practices and technologies as they shape and are shaped by culture. Topics include a history of writing practices and technologies and literacy and an examination of writing and rhetoric in the digital age. Prerequisite: PWR 295. (3 cr. hr.)

PWR 413: Contemporary Poetics

(C) Students respond to critical texts on poetic inspiration and creation working toward their own theory of the sources of poetry. Prerequisites: A 300-level writing course and a 400-level literature class. (3 cr. hr.) ■

PWR 415: Experiments in Creative Writing

(C) Students will, in a workshop setting, compose, share and critique cross-genre and experimental works—prose, poems, short stories, experimental texts and multimedia and performance works. Three lecture hours and a two-hour lab. Prerequisite: PWR 209. (4 cr. hr.)

PWR 495: Internship in Professional Writing

(O) Supervised experience in the professional work force in areas such as publishing, multi media, public relations, advertising and management. Prerequisites: 2.75 grade point average, computer literacy, nine credit hours of writing courses (300 level or higher), permission of English Department internship coordinator. (3-15 cr. hr.)

PWR 497: Senior Seminar in Professional Writing

(B) Students will produce a Senior Writer's Project that provides evidence of writing and editing skills through publication of a finished work and compile a portfolio of works. Prerequisite: Senior standing or permission of instructor. (3 cr. hr.) ■

Environmental and Outdoor Education

CENTER

SCHOOL

Arts and Sciences

FACULTY

Jack C. Sheltmire (Director)

MINOR OFFERED

Environmental and Outdoor Education

Select one track

Track A: Environmental Education and Interpretation

Track B: Outdoor Pursuits

Track C: Organized Camping Track

ENVIRONMENTAL CONCENTRATIONS OFFERED IN OTHER PROGRAMS

Environmental Health

See requirements listed under health.

Environmental Management

See requirements listed under economics.

Outdoor Recreation

See requirements listed under recreation and leisure studies.

Pre-Environmental Science and Forestry

See requirements listed under biological sciences.

DESCRIPTION

The Interdisciplinary Center for Environmental and Outdoor Education was established to create and coordinate curricular and extracurricular environmental and outdoor education programs that serve the needs of the College, regional educators and the general public. Students enrolled in the Center's programs benefit from SUNY Cortland's long-standing commitment to environmental and outdoor education. The College's three field campuses, Brauer Field Station, Hoxie Gorge, and the Outdoor Education Center at Raquette Lake, established in 1948, offer students a vast array of field study opportunities. The Center also hosts a national organization, The Coalition for Education in the Outdoors.

SPECIAL FEATURES

- The Outdoor Education Center at Raquette Lake
- Robert C. Brauer Memorial Field Research Station
- Hoxie Gorge Nature Preserve

Miller Building, Room 230
(607) 753-5488
E-mail: sheltmirej@cortland.edu
www.cortland.edu/outdoor

Minor in Environmental and Outdoor Education [EOE]

Offered through the Center for Environmental and Outdoor Education, this interdisciplinary minor is open to students in all majors. It is valuable to students preparing for careers in elementary and secondary education, scouting, adventure programming, youth and community groups, nature centers, state and national parks and organized outdoor camping programs.

The minor is organized around a core group of courses and allows students to select one of the following specialized "tracks": environmental education and interpretation, outdoor pursuits or organized camping.

Requirements for the Minor

A. Core – 11 credit hours from the following:

- BIO 307: Field Natural History *or*
 - BIO 310: Field Biology
 - BIO 102: Ecology and the Human Environment *or*
 - BIO 412: General Ecology *or*
 - GLY 160: Environmental Geology *or*
 - GRY 110: Physical Geography
 - EDU 462: Environmental and Outdoor Education
- Also listed as REC 462

A practicum experience is required of all students. Students may meet this requirement by completing REC 370: Outdoor Education Practicum or by completing another practicum approved by the outdoor education minor advisor

B. Electives – specialization in one of the following tracks:

Environmental Education and Interpretation Track [EOEE]

To be taken in addition to core group (five to seven credit hours by advisement):

- ANT 300: Human Evolution and Survival
- ANT 305: Archaeology of Eastern United States
- BIO 310: Field Biology (Prerequisite: BIO 201-202; unless used in place of BIO 307)
- BIO 405: Conservation Biology
- BIO 411: Ornithology
- BIO 418: Fungi
- ECO 335: Resource and Environmental Economics
- EST 100: Introduction to Environmental Studies
- EST 486: Seminar in Environmental Studies
- GRY 110: Physical Geography
- GRY 120: Cultural Geography
- GRY 250: Urban Geography
- GRY 301: Science, Human Affairs and the Environment
- GLY 261: Physical Geology
- GLY 292: Land Use and Planning
- GLY 371: Meteorology
- INT 201: Adirondack Winter Studies
- PHY 150: Astronomy
- POL 242: Environmental Policy
- POL 308: Environmental Law

POL 342: Environmental Policy and Biodiversity
 REC 310: Wilderness and American Culture
 REC 360: Camp Counseling and Outdoor Education
 (may not be counted for RLS majors)
 REC 569: Environmental and Cultural Interpretation
 SOC 340: Environmental Sociology

Outdoor Pursuits Track [EOEO]

To be taken in addition to core group (nine credit hours):

HLH 325: Instructor's First Aid *or*
 HLH 120: Responding to Emergencies
 HLH 430: CPR – Basic Life Support
 PED 181: Adventure Activities
 REC 379: Outdoor Recreation Activities
 REC 574: Outdoor Pursuits Education and Leadership

Notes: A National Standard Course from the Wilderness Education Association or the National Outdoor Leadership School may be substituted for REC 379.

A SOLO or WMA or other approved wilderness first responder course may be substituted for HLH 325 and HLH 430.

With advisor approval, HLH 120: Responding to Emergencies, may be substituted for HLH 325 and HLH 430.

EST 100 is not required for the Outdoor Pursuits Track.

Organized Camping Track [EOEC]

To be taken in addition to core group (nine credit hours):

HLH 325: Instructor's First Aid *or*
 HLH 120: Responding to Emergencies
 HLH 430: CPR – Basic Life Support
 PED 181: Adventure Activities
 REC 360: Camp Counseling and Outdoor Education
 REC 560: Camp Administration

Notes: A SOLO or WMA or other approved wilderness first responder course may be substituted for HLH 325 and HLH 430.

With advisor approval, HLH 120: Responding to Emergencies, may be substituted for HLH 325 and HLH 430.

EST 100 is not required for the Organized Camping Track.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 16-20

Environmental Science CONCENTRATION

Bowers Hall, Room 324
 (607) 753-2924
 E-mail: barclayd@cortland.edu

SCHOOL

Arts and Sciences

FACULTY

Chris Cirimo (Coordinator)

CONCENTRATION OFFERED

Environmental Science

DESCRIPTION

Environmental problems require solutions that draw from many academic areas. The environmental science concentration provides broad training in all of the sciences as well as in relevant social sciences. Students learn modern techniques for identifying and resolving environmental problems. All students complete an internship which provides them with an opportunity

Environmental Studies

COURSE DESCRIPTIONS

EST 100: Introduction to Environmental Studies

(B) History and development of contemporary western thought about relationship of human beings to natural world; analysis of elemental character, patterns and processes of alteration and impacts of humans on local environments; study of socioeconomic systems that give rise to and must ultimately solve environmental problems. (3 cr. hr.) ■

EST 129, 229, 329, 429, 529: Special Topics in Environmental Studies

Selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for content and academic level of credit. (1-4 cr. hr.)

EST 486: Seminar in Environmental Studies

(S) Directed readings, library research and discussion of contemporary environmental problems with emphasis on their social and scientific aspects. Prerequisite: Permission of instructor required. Also listed as ENS 486. (3 cr. hr.)

INT 201: Adirondack Winter Studies

(S) This course is designed to provide students with background knowledge and experience in the physical, cultural, historical, environmental and aesthetic elements and issues of the Adirondacks. Prerequisite: Consent of coordinator. (2 cr. hr.) ■

to work with environmental science professionals and to make career contacts with local, state and federal government agencies, industry, or private consulting firms. Majors in the biological sciences, chemistry, geology and physics departments may choose the environmental science concentration; requirements for the concentration are listed with each of these departments.

SPECIAL FEATURES

- Internships with local and regional agencies
- Courses at the Outdoor Education Center at Raquette Lake, Hoxie Gorge and Brauer Field Station
- Geographic Information Systems (GIS) facility
- Research with faculty
- Interdisciplinary courses and field experiences
- Environmental Seminar Capstone Experience

Environmental Science

COURSE DESCRIPTIONS

ENS 292: Land Use and Planning

(O) Land as a natural resource; emphasis on geologic aspects that determine natural potentialities, restrictive conditions of land use. Three lecture hours; field trips. Also listed as GLY 292. (3 cr. hr.)

ENS 310: Wetland Analysis

(F) Investigation of the hydrology, biogeochemistry, soils, classification, delineation and functional assessment of freshwater wetlands. Two lecture hours, one three-hour laboratory. Prerequisites: Completion of GE 8 and junior status. Also listed as GLY 310. (3 cr. hr.) ■

ENS 486: Seminar in Environmental Science

(S) Directed readings, library research and discussion of contemporary environmental problems with emphasis on their scientific and social aspects. Required for environmental science concentration; open to senior science majors; others by permission of instructor. Also listed as EST 486. (3 cr. hr.)

ENS 487: Environmental Science Internship

(A) Project-oriented internship with a government agency, industry, other private or public enterprise, or faculty member. Supervised application of science knowledge and skills to an environmental issue, project or study. Prerequisites: junior or senior status in environmental science concentration, consent of environmental science coordinator. (3-12 cr. hr.) ■

Exercise Science and Sport Studies

DEPARTMENT

SCHOOL

Professional Studies

FACULTY

John Cottone (Chair), Jeff Bauer, Timothy Bryant, Phil Buckenmeyer, Sonya Comins, Alyson Dearie, Kristin Geidt, Joy Hendrick, Jim Hokanson, Wendy Hurley, Yomee Lee, Peter McGinnis, Steve Meyer, Katherine Polasek, Susan Rayl, Brian Richardson.

ADJUNCT FACULTY

For a listing of adjunct faculty see pages 312-315.

MAJORS OFFERED

Bachelor of Science in Athletic Training
Bachelor of Science in Kinesiology: Exercise Science,
Sport Studies or Coaching
Bachelor of Science in Kinesiology: Fitness Development

CONCENTRATIONS OFFERED

Coaching
Exercise Science
Sport Studies

MINORS OFFERED

Exercise Science
Sport Studies

Studio West, Room 138
(607) 753-4300
E-mail: esss@cortland.edu
www.cortland.edu/esss/

DESCRIPTION

The B.S. programs are designed to increase general knowledge of the broad field of kinesiology and to prepare students for a wide variety of professions related to physical activity and sport. Future programs will be directed toward the study of the science and culture of exercise, sport and human movement.

In all programs, professional preparation is enhanced by the development of concentrations and minors that allow some specialization for those students who already have an interest in a specific aspect of kinesiology. Some programs include theory and activity courses while others involve practical internship experience and clinical experience. Elective hours may also be used to enroll in a study abroad program.

SPECIAL FEATURES

Study abroad in England, Germany and Australia

Requirements

- Degree Requirements listed on pages 38-48 of this catalog apply to the following majors.
- Liberal Arts Requirements:
 - B.A. – 90 credit hours
 - B.S. in Athletic Training – 60 credit hours
 - B.S. in Kinesiology – 75 credit hours
 - B.S. in Kinesiology: Fitness – 75 credit hours

Major in Athletic Training [ATR]

Athletic training is an undergraduate program leading to a bachelor of science. The program is formally accredited by the Commission on Accreditation of Athletic Training Education.

Students admitted to SUNY Cortland will be advised into course work appropriate to the degree. However, to remain in the program and qualify for the clinical experience, students must complete an internal application review by the selection committee which takes place during the fall of each semester.

At the completion of the program, students are eligible for the Board of Certification Examination. The program is also recognized by the New York State Education Department for Registration as a license-qualifying program for professional purposes.

The number of students admitted into the program is governed by the Joint Review Committee on Educational Programs in Athletic Training *Standards and Guidelines*. The ratio of students/instructor is maintained at approximately 8:1.

Additional information regarding the selection process and the technical standards which establish the essential qualities considered necessary for students admitted to the program are available at www.cortland.edu/ess/ or from the athletic training program director.

ADMISSION REQUIREMENTS

1. Candidates must have a minimum cumulative grade point average of 2.5.
2. Candidates must have a minimum grade of C- in all professional course work.
3. Candidates must earn a minimum grade of B- in ATR 221 and corresponding laboratory.
4. Candidates must have a cumulative grade point average of 2.75 in the courses used to calculate the major grade point average as defined on the Curriculum Advising and Program Planning (CAPP) report.
5. Candidates must show proof of current certification (most current national guidelines) in the following emergency skills at the time of application: First Aid, Adult, Child and Infant CPR (including two-person CPR, pocket mask and bag valve mask skills), and AED Essentials. It is recommended that students complete the certifications through either the American Red Cross or the American Heart Association. Candidates may receive the correct certifications by completing the HLH 120: Responding to Emergencies course offered on campus.
6. Candidates must complete 75 hours of directed clinical observation.

SELECTION PROCEDURES

1. Candidates for the program must complete the internal application form, attaching a transcript (transfer students only) of courses completed, and a statement of related experiences and future goals.
2. Three recommendations from faculty members at Cortland or prior college and/or high school faculty/staff should be attached.
3. Students will verify that they understand the health requirements and the technical standards necessary for selection into the program.
4. A selection committee will evaluate the applications, evaluate the clinical abilities of the students, screen and interview students to determine acceptance into the program. Applicants will be notified of the selection committee's decision, which will be final for that year. Students may reapply the following year.

5. Applications will be reviewed at the end of the fall semester.
6. Prospective candidates must be aware that, upon acceptance into the athletic training program, there will be additional costs associated with items such as professional memberships, uniforms, liability insurance, travel, etc.

A. General Education and Liberal Arts: 37 credit hours
 CPN 100 or 102: Academic Writing I
 CPN 101 or 103: Academic Writing II
 Quantitative Skills
 MAT 201 *or* PSY 201: Statistical Methods

B. Arts and Science: 12 credit hours
 BIO 301: Human Anatomy and Physiology I *
 BIO 302: Human Anatomy and Physiology II *
 PSY 101: General Psychology
 COM 210: Fundamentals of Public Speaking

* *Dual majors in biology may substitute BIO 324 for BIO 301 and BIO 514 for BIO 302.*

C. Liberal Arts Electives: Five credit hours

D. Professional Education: 18 credit hours
 HLH 110: Personnel and Community Health*
 HLH 323: Foods and Nutrition* *or*
 EXS 357: Nutrition and Sport Performance
 EXS 397: Exercise Physiology I
 EXS 346: Sport Psychology
 EXS 489: Exercise Science Research Methods

* *Dual majors in health may substitute HLH 203 for HLH 110 and HLH 232 or HLH 357 for HLH 323.*

E. Athletic Training: 34 credit hours
 ATR 101: Foundations of Athletic Training
 ATR 102: Basic Techniques in Athletic Training
 ATR 221: Athletic Training: Theory and Methods
 ATR 222: Recognition and Evaluation of Injury
 ATR 317: Acute Care of Injury and Illness
 ATR 318: Advanced Athletic Training
 ATR 319: Organization and Administration in Athletic Training
 ATR 342: Therapeutic Exercise
 ATR 343: Therapeutic Modalities
 ATR 360: Psycho-Social Intervention and Referral
 ATR 362: Advanced Conditioning and Rehabilitative Exercise
 ATR 223: Introduction to Clinical Skills
 ATR 323: Advanced Clinical Skills
 ATR 324: Applied Clinical Skills
 ATR 401: Pharmacology in Athletic Training
 ATR 423: Seminar in Athletic Training

F. Field Experience: Four credit hours
 ATR 233: Field Experience in Athletic Training I
 ATR 333: Field Experience in Athletic Training II
 ATR 334: Field Experience in Athletic Training III
 ATR 433: Field Experience in Athletic Training IV

G. Free Electives: 15 credit hours

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Kinesiology [KIN]

Students selecting this major will earn a B.S. in kinesiology and complete a concentration in either exercise science, sport studies or coaching.

Exercise science is concerned with how and why the human body responds to physical activity. There are two primary areas of inquiry where exercise scientists focus their attention: health-related aspects of physical activity and sports performance.

In regard to health-related aspects of physical activity, exercise scientists have studied how exercise benefits health. The study of sports performance by exercise scientists involves diverse areas, which can include the growth and development of athletes, nutritional needs of athletes and movement analysis.

Sport studies is the liberal arts and sciences approach to studying human movement through the humanities and social science subdisciplines of the field. The humanities subdisciplines include sport history and sport philosophy and can be expanded to include sport art, sport communication and journalism, sport literature and sport law. The social science subdisciplines include sport psychology and sport sociology.

The Bachelor of Science in Kinesiology with a concentration in coaching provides the academic preparation for those students wanting a career in the coaching profession. Academic content includes study in key sports science disciplines described by the National Association for Sport and Physical Education's (NASPE) domains of coaching effectiveness. This 39 credit hour concentration contains a unique sequence of subjects that focus on theory and practice of coaching. It also provides students with an experiential learning component with a coaching internship.

Program objectives are established to make students aware of the multiplicity of the demands involved in coaching and the important role that coaches have in society. Through this program, students will gain the knowledge and expertise to become successful coaches on several levels including sports programs in junior high or high school, college and at the international level.

A. General Education and Liberal Arts: 75 credit hours

CPN 100 or 102: Academic Writing I
 CPN 101 or 103: Academic Writing II
 PSY 101: General Psychology
 BIO 301: Anatomy and Physiology I
 BIO 302: Anatomy and Physiology II
 CAP 100: Computer Applications
 General Education Courses (28 cr. hr.)
 Liberal Arts Electives (29 cr. hr.)

B. Kinesiology Theory Core: 21 credit hours

EXS 197: History and Philosophy of Physical Education +
 EXS 287: Social Psychological Aspects of Physical Activity +
 EXS 297: Motor Behavior +
 EXS 351: Philosophy of Sport +
 EXS 387: Biomechanics +
 EXS 397: Exercise Physiology +
 EXS 420: Sport in American Culture +

C. Concentration Requirements (must complete a concentration)

Sport Studies Concentration Requirements: 30 credit hours

ENG 260: Sport Literature +
 EXS 345: Sport and Society +
 EXS 346: Sport Psychology +
 EXS 410: Sport Ethics +
 EXS 445: Women and Sport
 EXS 468: African American Sport History

Track (courses outside the major): 12 credit hours

The track will consist of 12 credit hours outside the major comprised of appropriate courses taken from the following areas:

African American Studies (AAS)
 Cinema Study (CIN)
 Communication Studies (COM)
 English (ENG)
 Health (HLH)
 History (HIS)
 Philosophy (PHI)
 Psychology (PSY)
 Sociology (SOC)
 Sport Management (SPM)
 Women's Studies (WST)

A minimum of six credit hours must have the same prefix.

These 12 credit hours must not include courses that fulfill general education requirements. Students will determine these credit hours in consultation with their advisor and department approval.

Exercise Science Concentration Requirements: 24 credit hours

MAT 121: Calculus A +
 CHE 221: General Chemistry I +
 CHE 222: General Chemistry II +
 PHY 201: Principles of Physics I + *or*
 PHY 105: Elementary Mechanics and Heat +
 PSY 201 *or* MAT 201 *or* COM 230: Statistical Methods *or*
 ECO 221: Economic Statistics +
 EXS 489: Exercise Science Research Methods
 EXS 490: Independent Research in Exercise Science

Coaching Concentration Requirements: 39 credit hours

Category A. Required Core (28 credit hours)
 ATR 421: Care and Prevention of Athletic Injuries
 EXS 230: Foundations of Coaching: Principles and Theories
 EXS 325: Principles of Strength and Conditioning
 EXS 346: Exercise and Sport Psychology
 EXS 410: Ethics in Sport
 EXS 455: Philosophy, Principles and the Administration of Sport
 HLH 120: Responding to Emergencies
 PED 404-419: Coaching Clinic
 PSY 333: Developmental Psychology
 SPM 311: Legal Issues in Sport
 Category B. Practica/Internship Requirements (8 credit hours)
 EXS 260: Coaching Practicum I
 EXS 360: Coaching Practicum II
 EXS 475: Internship in Coaching

Category C. Required Workshops (non-credit)

CAR: Child Abuse Identification and Reporting
 SAVE: School Violence Prevention Training

Category D. Concentration Elective (Choose at least three credit hours; students may also choose additional electives)

ATR 352: Strength and Conditioning for Athletic Trainers
 EXS 357: Nutrition and Sports Performance
 EXS 435: Neuromuscular Fitness Assessment and Programming
 EXS 438: Cardio-Respiratory Fitness Assessment and Programming
 EXS 450: Disability in Sport (also listed as SPM 450)
 SPM 238: Sport Videography
 SPM 335: Sports Information Technology
 SPM 345: Sport in Society

D. Exercise Science, Sport Studies and Coaching Activity Requirements

Sport Studies Concentration Activity Requirements: Five credit hours

PED 181: Adventure Activities
 PED 182: Health-Related Physical Fitness
 Aquatics activity elective
 Activity electives

Exercise Science Concentration Activity Requirements: Five credit hours

PED 182: Health-Related Physical Fitness
 Aquatics activity elective
 Activity electives

Coaching Concentration Activity Requirements: Five credit hours

PED 181: Adventure Activities
 PED 182: Health-Related Physical Fitness
 Aquatics activity elective
 Activity electives

E. Free Electives

Sport Studies Concentration: 16 credit hours
 Exercise Science Concentration: 27 credit hours
 Coaching Concentration: 7 credit hours

+ *May count toward liberal arts credit hours.*

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Kinesiology: Fitness Development [FIT]

This program provides a theoretical and practical knowledge base for students who are interested in careers in health/fitness settings. Students in this program have the opportunity to prepare for careers in fitness management, health promotion and other wellness-related programs.

This program can lead to certification as a health/fitness instructor, personal trainer, and/or certified strength and conditioning specialist through the American College of Sports Medicine and the National Strength and Conditioning Association.

A. General Education and Liberal Arts: 75 credit hours

General Education Courses (28 credit hours)
 CAP 100: Computer Applications
 CPN 100 or 102: Academic Writing I
 CPN 101 or 103: Academic Writing II
 PSY 101: General Psychology
 BIO 301: Anatomy and Physiology I
 BIO 302: Anatomy and Physiology II
 Quantitative Skills (three credit hours)
 PSY 201 or MAT 201 or COM 230: Statistical Methods + or
 ECO 221: Economic Statistics +
 Liberal Arts Electives (26 credit hours)

B. Kinesiology Theory Core: 21 credit hours

EXS 197: History and Philosophy of Physical Education +
 EXS 287: Social Psychological Aspects of Physical Activity +
 EXS 297: Motor Behavior +
 EXS 351: Philosophy of Sport +
 EXS 387: Biomechanics +
 EXS 397: Exercise Physiology +
 EXS 420: Sport in American Culture +

C. Fitness Development Theory Requirements: 23 credit hours

ATR 421: Care and Prevention of Athletic Injuries
 EXS 357: Nutrition and Sport Performance
 EXS 435: Neuromuscular Fitness Assessment and Programming
 EXS 438: Cardiorespiratory Fitness Assessment and Programming
 HLH 120: Responding to Emergencies
 HLH 210: Wellness and Health Promotion
 HLH 301: Stress Management
 MGT 250: Principles of Management+

D. Fitness Development Activity Requirements: Six credit hours

PED 181: Adventure Activities
 PED 182: Health-related Physical Fitness
 PED 189: Aquatics or PED 195: Water Exercise
 PED 283: Racket Activities
 PED 284: Self-defense
 PED 288: Rhythms and Dance

E. Practica/Internship Requirements: 14-20 credit hours

EXS 196: Field Experience in Fitness Development I
 EXS 296: Field Experience in Fitness Development II
 EXS 470: Field Experience in Fitness Development III
 EXS 371: Pre-Internship in Fitness Development
 EXS 471: Internship in Fitness Development

F. Free Electives: 1-10 credit hours

+ *May count toward liberal arts credit hours.*

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

**Minor in Exercise Science [EXSC]
 (For non-kinesiology majors only)**

A. Required Courses

EXS 297: Motor Behavior +
 EXS 387: Biomechanics (Prerequisite: BIO 301 or 324) +
 EXS 397: Exercise Physiology +
 (Prerequisite: BIO 301/302 or BIO 324/414)
 EXS 489: Exercise Science Research Methods
 (Prerequisite: MAT 201/PSY 201 or PED 434)
 (Concurrent prerequisite: EXS 297, 387, 397)
 EXS 490: Independent Research in Exercise Science
 (Prerequisite: EXS 489)
 BIO 301/302: Anatomy and Physiology I and II + or
 BIO 324/414: Mammalian Anatomy and Physiology +
 CHE 221: General Chemistry I +
 PHY 201: Principles of Physics I + (Corequisite: MAT 121) or
 PHY 105: Elementary Mechanics, Heat and Matter +
 PSY 201 or MAT 201 or COM 230: Statistical Methods + or
 ECO 221: Economic Statistics + or
 PED 434: Statistics and Assessment in Physical Education
 MAT 121: Calculus A

+ *May count toward liberal arts credit hours.*

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 35

Minor in Sport Studies [SPST] (Not open to kinesiology majors)

- A. Required Sport Studies Core (12 credit hours)
- EXS 197: History and Philosophy of Physical Education
 - EXS 287: Social Psychological Aspects of Physical Activity
 - EXS 345: Sport and Society *or*
 - EXS 346: Sport and Exercise Psychology (prerequisite: PSY 101)
 - EXS 351: Philosophy of Sport *or*
 - EXS 410: Ethics in Sport
- B. Required Sport Studies Electives (select six credit hours)
- EXS/POL 162: Soccer, Politics, Law and Culture
 - EXS 350: Aesthetics of Sport
 - EXS 420: Sport in American Culture
 - EXS/WST 445: Women and Sport
 - EXS/SPM 450: Sport and Disability
 - EXS 468: African American Sport History
- C. Required Free Electives (select three credit hours)
- COM 360: Sport Broadcasting (prerequisite COM 100)
 - ENG 260: Literature of Sport
 - PWR 340: Writing Sports Literature

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 21

Example of the B.S. in Athletic Training over four years

First Year	Second Year
COR 101	<i>Fall</i>
CPN 100 or 102	BIO 301
CPN 101 or 103	ATR 221
HLH 110	COM 210
PSY 101	GE
ATR 101	<i>Spring</i>
ATR 102	BIO 302
Two GE courses	ATR 222
Foreign language	ATR 223
Elective	ATR 233
	ATR 343
	GE or Quantitative Skills
Total credit hours: 31	Total credit hours: 31
Third Year	Fourth Year
ATR 317	ATR 319
ATR 318	ATR 401
ATR 323	ATR 423
ATR 324	ATR 433
ATR 333	EXS 489
ATR 334	HLH 323 or EXS 357
ATR 342	GE electives
ATR 360	
ATR 362	
EXS 346	
EXS 387	
EXS 397	
GE or liberal arts electives	
Approximate total credit hours: 31	Approximate total credit hours: 31

Exercise Science and Sport Studies

COURSE DESCRIPTIONS

Athletic Training

ATR 101: Foundations of Athletic Training

(S) Designed for entry-level students' initial exposure to the athletic training profession. The course is intended to serve as an overview to the vast science of athletic health care using the CAAHEP educational model. (3 cr. hr.) ■

ATR 102: Basic Techniques in Athletic Training

(S) Introduction to clinical skills in athletic training that includes risk management, assessment, basic skills taping, bracing and rehabilitation techniques as they relate to sport injuries and illnesses. Includes 25 hours of directed clinical observation. Open to athletic training majors only. Prerequisite: ATR 101. (1 cr. hr.)

ATR 129, 229, 329, 429, 529: Special Topics in Athletic Training

Selected topics: May be taken more than once as subtitles change. Prerequisite: Designated by department as appropriate for content and academic level of credit. (1-3 cr. hr.)

ATR 221: Athletic Training Theory and Methods

(S) Basic theory and methods associated with prevention and management of common injury/illnesses sustained in the physically active individual. Required for students seeking admission into the Athletic Training Program. Prerequisite: BIO 301. (3 cr. hr.)

ATR 222: Recognition and Evaluation of Injury

(S) Recognition and evaluation of injury/illness common to the physically active individual. Students will learn techniques required to assess injury/illness for administering first aid and emergency care. Prerequisites: ATR 221, acceptance into the athletic training program. (3 cr. hr.)

ATR 223: Introduction to Clinical Skills

(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: Acceptance in the Athletic Training Program. (1 cr. hr.)

ATR 233: Field Experience in Athletic Training I

(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. Prerequisite: Acceptance into the athletic training program. S, U grades assigned. (1 cr. hr.)

ATR 317: Acute Care of Injury and Illness

(S) The knowledge, skills and equipment used for the management and disposition of acute injury and illness and providing appropriate medical referral. Prerequisites: ATR 221 and acceptance into the athletic training program. (2 cr. hr.)

ATR 318: Advanced Athletic Training

(S) Investigation into advanced cognitive domain of athletic training. Specific topics in various areas of the body to include further recognition, management, and disposition of athletic injuries. Prerequisite: ATR 317. (3 cr. hr.)

ATR 319: Organization and Administration in Athletic Training

(F) Investigation into history, organization, and administration of athletic training program, to include facility planning, budget, inventory. Student will examine role of pharmacological agents in medical treatment of common injury/illness, as well as special topics dealing with legal issues, and state credentialing for athletic trainers. Student will have opportunity to examine, review, and interpret the NATA competencies, plan strategies and prepare to take NATA certification exam. Prerequisite: ATR 318. (3 cr. hr.)

ATR 323: Advanced Clinical Skills

(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 317. (1 cr. hr.)

ATR 324: Applied Clinical Skills

(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 323. (1 cr. hr.)

ATR 333: Field Experience in Athletic Training II

(F) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. S, U grade assigned. Prerequisite: ATR 233. (1 cr. hr.)

ATR 334: Field Experience in Athletic Training III

(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. S, U grade assigned. (1 cr. hr.)

ATR 342: Therapeutic Exercise

(F) Investigation into principles, objectives, indications, contraindications and progression of various modes of conditioning and reconditioning exercises. Methods for evaluation, progress, and development of criteria for return to activity. Prerequisites: ATR 221, 222, acceptance into athletic training program, and consent of instructor. (3 cr. hr.)

ATR 343: Therapeutic Modalities

(S) Normal physiological responses of human body to trauma, affects of trauma and inactivity on specific body tissues will be studied with implications for selection and use of therapeutic modalities. Prerequisite: ATR 221 and acceptance into the athletic training program. (4 cr. hr.)

ATR 352: Strength and Conditioning for Athletic Trainers

(S) Basic understanding of the prevention/rehabilitation of athletic injuries through proper implementation/adaptations of strength and conditioning principles. The class will meet the guidelines established by the national Strength and Conditioning Association (NCSA). Lecture and laboratory activities associated with the athletic strength-training facilities, athletic training and computer facilities. Prerequisite: ATR 342. (3 cr. hr.)

ATR 360: Psycho-Social Intervention and Referral

(S) Overview of the basic principles comprising the knowledge, skills and values that the entry-level certified athletic trainer should possess to recognize, intervene and refer when appropriate. Prerequisites: HLH 110 and EXS 287. (1 cr. hr.)

ATR 362: Advanced Conditioning and Rehabilitative Exercise

(S) A study of the indications, contraindications, physiological effects, special exercise program, modes of resistance, methods of flexibility, and exercise prescription relating therapeutic rehabilitation and injury prevention exercises. Advanced theoretical and practical approach for the design of rehabilitation protocols and the use of advanced techniques. Prerequisite: ATR 342. (3 cr. hr.)

ATR 401: Pharmacology in Athletic Training

(F) Basic principles of pharmacology comprising the knowledge, skills and values that the entry-level certified athletic trainer should possess. Examination of the indications, contraindications, precautions and interactions of drugs and medications as well as the governing regulations relevant to treating and caring for injuries and illness common in athletics. Open to athletic training majors only. Prerequisite ATR 318. (1 cr. hr.)

ATR 421: Care and Prevention of Athletic Injuries

(S) Prevention, protection, first aid care of injuries occurring in athletics. Evaluation of protective devices, methods, diets, conditioning. Two lectures, one two-hour laboratory. Students provide own tape. Prerequisite: BIO 301. (3 cr. hr.)

ATR 423: Seminar in Athletic Training

(F) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 324. (1 cr. hr.)

ATR 433: Field Experience in Athletic Training IV

(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. Prerequisite: ATR 334. S, U grade assigned. (1 cr. hr.)

ATR 434: Field Experience in Athletic Training V

(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. This experience is reserved for students who have not satisfactorily met all the terms from their contract remediation received in ATR 433. A student who does not earn a satisfactory grade in this course will not be endorsed for the NATABOC Certification Examination. Prerequisite: Consent of program director. S, U grade assigned. (1 cr. hr.)

ATR 444: Laboratory Assistant in Athletic Training

(A) Student may assist with the lab portion of one of several athletic training classes. Responsibilities may include attending and assisting with a lab section, holding office hours, assisting with collecting research data and/or completing other tasks as assigned by the instructor. Students will enhance their knowledge and understanding of concepts covered in the associated theory course, learn additional lab techniques as well as gain valuable leadership experience. Prerequisite: Consent of instructor. May be repeated: no more than three credit hours toward graduation. (1-3 cr. hr.)

ATR 499: Special Study in Athletic Training

(A) Independent study/research on selected topics. Topics may include in-depth study of a particular subject area. Student will work with faculty member (project director) whose own special interests and expertise coincide most closely with chosen topic. Students must follow suggested guidelines available in department chair's office. Prerequisite: Consent of department chair and instructor. May be repeated: no more than three credit hours toward graduation. (1-3 cr. hr.)

ATR 521: Contemporary Issues in Athletic Training

(O) Contemporary issues regarding the practice of athletic training will be investigated. Emphasis will be placed on the needs of coaches and athletic personnel who deal with athletes. Additional consideration also will be concerned with the prevention, risk management and the identification and treatment of sport-related injury and illness. (3 cr. hr.)

Exercise Science and Sport Studies**EXS 129, 229, 329, 429, 529: Special Topics in Exercise Science and Sport Studies**

Selected topics: May be taken more than once as subtitles change. Prerequisite: Designated by department as appropriate for content and academic level of credit. (1-3 cr. hr.)

EXS 162: Soccer, Politics, Law and Culture

(C) This course examines the sociopolitical and cultural development of soccer. The connection between the world's most popular sport, soccer, and international politics will be emphasized. Through critical political theory, the role and impact of the nation-state, the United States Soccer Federation (USSF), Federation Internationale de Football Association (FIFA), transnational corporations, race, gender and class will be discussed and analyzed from cross-cultural perspectives. Two field trips required for the course. Also listed as POL 162. (3 cr. hr.)

EXS 196: Field Experience in Fitness Development I

(A) Introductory practicum or field experience for students in the fitness development (FIT) major. Exposure to several experiences in the operation of a fitness facility with assistance in administering fitness assessments and participation in activities designed to introduce the operations of a fitness facility. S, U grades assigned. (1 cr. hr.)

EXS 197: History and Philosophy of Physical Education and Sport

(A) Devoted to study of physical education and sport and based on major historical events and associated philosophies that have shaped physical education and sport from ancient times to present. Examines basic concepts and current issues within physical education, play, cultural games and sports, athletics, fitness and wellness. Future trends explored. (3 cr. hr.) ■

EXS 230: Foundations of Coaching: Principles and Theories

(B) The purpose of this course is to provide the prospective athletic coach with the basic underlying philosophies, theories and techniques for planning, organizing and managing athletic programs. In addition, knowledge of teaching skills and techniques that influence coaching effectiveness and improve performance will be emphasized. Not open to freshmen. (3 cr. hr.)

EXS 260: Coaching Practicum I

(B) Introductory coaching experience to provide students with the opportunity to apply the principles and practices of coaching a sports team. The student will actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. Not open to freshmen. S, U grades assigned. Prerequisite: Consent of department, completion of School Violence Prevention Training (SAVE), and Child Abuse Identification and Reporting (CAR). (1 cr. hr.)

EXS 287: Social Psychological Aspects of Physical Activity

(A) Introductory overview of social psychology as it relates to physical activity. Focus is on group and individualized behavior in play, sport, and dance. Not open to those having credit for PSY 422. (3 cr. hr.) ■

EXS 290: Social Problems and Issues in Sport and Exercise

(A) Examination of social problems and issues that impact upon a variety of physical activities. Consideration of how values, prejudice, discrimination and stereotypes affect sport and exercise in ways similar to society at large. Not open to students with credit for EXS 345. (3 cr. hr.) ■

EXS 296: Field Experience in Fitness Development II

(A) An intermediate field experience for the Fitness Development (FIT) major. Practical knowledge and hands-on experience by assisting with beginning through advanced resistance training and cardiovascular fitness programs. S, U grades assigned. Prerequisite EXS 196. (1 cr. hr.)

EXS 297: Motor Behavior

(A) Introductory course in motor behavior encompassing motor learning and motor development. Emphasis is on the application of principles which affect behavior, learning, and performance. (3 cr. hr.) ■

EXS 325: Principles of Strength and Conditioning

(F) Introduction to the concepts and applicable activities used in designing, implementing and evaluating strength and conditioning programs for athletic team populations. Prerequisite: BIO 301 and 302. Not open to students with credit for ATR 352 or EXS 435. (3 cr. hr.)

EXS 345: Sport and Society

(A) Role and influence of sports in our social system. Influence of other social systems upon sport. Not open to students with credit for EXS 290. (3 cr. hr.) ■

EXS 346: Sport and Exercise Psychology

(A) Selected psychological and related theoretical factors that influence behavior of individuals participating in sport and exercise. Prerequisite: PSY 101. Also listed as PSY 346. (3 cr. hr.) ■

EXS 350: Aesthetics of Sport

(O) Visual survey of art and architecture encompassing motifs of athletics, sports, games, contest, dance, exercise, play, recreation. Aesthetic pleasure, interest in this professional cultural dimension emphasized. (3 cr. hr.)

EXS 351: Philosophy of Sport

(B) This course examines the methods of the philosophical process and its relationship to human movement. (3 cr. hr.) ■

EXS 357: Nutrition and Sport Performance

(S) Examination of how nutrition impacts exercise and athletic performance through relationship among nutrition, physical activity and health promotion. Analysis of current diet trends and the influence of ergogenic aids. Prerequisites: BIO 301, 302. Also listed as HLH 357. (3 cr. hr.)

EXS 360: Coaching Practicum II

(B) Intermediate coaching experience to provide students with the opportunity to apply the principles and practices of coaching a sports team. The student will actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. Not open to freshman or sophomore students. S, U grades assigned. Prerequisite: EXS 260 and HLH 120. (1 cr. hr.)

EXS 371: Pre-Internship Seminar in Fitness Development

(A) Development of career goals and various employment options in the fitness field. Preparation of a professional resume, techniques of interviewing and the development of two-person and small group interpersonal skills for securing a certain internship and subsequent professional position. Prerequisite: EXS 296. (1 cr. hr.)

EXS 387: Biomechanics

(A) Analysis, evaluation and application of anatomical and mechanical factors influencing motor skill activities. Prerequisite: BIO 301 or 324. Basic algebra skills expected. (3 cr. hr.) ■

EXS 397: Exercise Physiology I

(A) Physiological adjustments, changes occurring in human organism as a result of physical activity. Physiology of muscular contraction; role of circulatory and respiratory systems in exercise. Lectures, recitation, laboratory. Prerequisites: BIO 301, 302 or 324, 414. (3 cr. hr.) ■

EXS 410: Ethics in Sport

(S) Examination of selected ethical and moral issues current in the conduct of American sport such as the ethics of competition, equality and excellence and the place of athletics in education. Also listed as SPM 410. (3 cr. hr.) ■

EXS 420: Sport in American Culture

(A) Analysis and interpretation of changes in physical education and sport in the United States using the concepts of modernization, urbanization and industrialization, ontology, and religion to describe changes since 1600. (3 cr. hr.) ■

EXS 432: Exercise Prescription

(O) The design and supervision of appropriate prescriptive exercise programs for individuals from various fitness levels and medical conditions. Prerequisite: EXS 397. (3 cr. hr.)

EXS 433: Exercise Prescription Practicum

(O) Clinical experience in theory and practice of exercise prescription in physical fitness programs for adults. Prerequisites: EXS 397 and 432. S, U grades assigned. (1 cr. hr.)

EXS 435: Neuromuscular Fitness Assessment and Programming

(F) Basic understanding of muscle structure, function, and physiology as it applies to strength and power. Review types of strength training programs and techniques for developing goal-specific programs will be included. Lectures and laboratory. Prerequisite: EXS 397 or PED 397. (3 cr. hr.)

EXS 438: Cardio-Respiratory Fitness Assessment and Programming

(S) Integration of cardiorespiratory physiological concepts into the assessment of an individual's aerobic capacity and the application of these data in designing an effective aerobic exercise program. American College of Sports Medicine (ACSM) guidelines will be followed. Lectures and laboratory. Prerequisite: EXS 397 or PED 397. (3 cr. hr.)

EXS 444: Laboratory Assistant in Exercise Science

(A) Student may assist with the lab portion of one of several exercise science theory classes. Responsibilities may include attending and assisting with a lab section, holding office hours, assisting with collecting research data and/or completing other tasks as assigned by the instructor. Students will enhance their knowledge and understanding of the concepts covered in the associated theory course, learn additional laboratory techniques as well as gain valuable leadership experience. (1-3 cr. hr.)

EXS 445: Women and Sport

(O) Examination of the current scholarship and debates surrounding issues of women's participation and involvement in sport. Also explores the dynamics of gender and sporting participation. A critical perspective will be used to examine sport as a significant social institution and its relationship to sexism and homophobia. Open only to juniors and seniors. Also listed as WST 445. (3 cr. hr.) ■

EXS 450: Disability and Sport

(O) Examination of the critical contemporary issues associated with the organization, governance and management of sport for people with disabilities. Emphasis will be placed on the historical, sociological and cultural contexts, as well as the practical environments in which sport opportunities for athletes with disabilities have evolved. Particular emphasis will be placed on a service-learning component designed to provide students with a "working understanding" of the core issues facing sport managers and sport scientists working with athletes with disabilities. Not open to freshmen or sophomores. Also listed as SPM 450. (3 cr. hr.)

EXS 455: Philosophy, Principles and the Administration of Sport

(O) The principles of a sports organization including its policies, use of strategic processes, structures and methods of operations. Key applications of administrative skills regarding staff duties, use of facilities, instructional equipment and supplies will be considered. Practical issues related to coaching will be discussed. Prerequisite: EXS 230. (3 cr. hr.)

EXS 468: African-American Sport History

(O) This course examines the historical perspective of African-Americans in sport. Emphasis will be placed on the social, cultural, economic and political experiences of African-Americans in sport, beginning with the Nubian culture in Africa through colonial America, slavery, the "Jim Crow" era of legal segregation, World War II and integration, the Civil Rights Movement, and the late 20th century. (3 cr. hr.) ■

EXS 470: Field Experience in Fitness Development III

(A) Experience in the operation of the fitness facilities and the promotion of wellness themes through the Tomik Fitness Facility. S, U grades assigned. Prerequisite: EXS 438 or PED 438. (2 cr. hr.)

EXS 471: Internship in Fitness Development

(A) A full-time supervised internship in a fitness field that relates to the student's area of interest. Typical internships may include strength and conditioning, personal training or work in a fitness facility. Prerequisites: EXS 371 and 470. (9-15 cr. hr.)

EXS 475: Internship in Coaching

(A) Supervised internship in a culminating coaching experience in a scholastic, collegiate, professional or an international level program. Prerequisites: EXS 360, senior status, good academic standing, consent of department. S, U grades assigned. (6 cr. hr.)

EXS 489: Exercise Science Research Methods

(F) Purpose of course is to provide students with integrated background in exercise science and to prepare them for research testing in procedures commonly found in exercise science research. Students introduced to current trends and research topics coupled with laboratory techniques in areas of motor behavior, biomechanics and exercise physiology. Two-hour laboratory session each week gives students hands-on experiences with computers and equipment. Prerequisites: PED 434 or MAT 201 or PSY 201 or ECO 221 or COM 230 and EXS 297, 387 and 397. (3 cr. hr.)

EXS 490: Independent Research in Exercise Science

(S) Independent research project for the exercise science concentration or minor. Student will undertake and complete a research project in the area of exercise science. The project will include collecting and analyzing data and presenting the results in writing and in a formal oral presentation. Prerequisite: EXS 489. (3 cr. hr.)

EXS 499: Special Study in Exercise Science

(A) Independent study/research on selected topics. Topics may include in-depth study of a particular subject area. Student will work with faculty member (project director) whose own special interests and expertise coincide most closely with chosen topic. Students must follow suggested guidelines available in department chair's office. Prerequisite: Consent of chair. (1-3 cr. hr.)

EXS 511: Advanced Statistical Applications in Exercise Science

(C) Advanced statistics with application in exercise science. Content includes a review of basic descriptive and inferential statistics, plus coverage of multiple-factor and repeated measures ANOVA, post-hoc tests, multivariate analysis of variance, analysis of covariance, multiple regression, canonical analysis and factor analysis. Computerized statistical analyses are imbedded throughout the course. Prerequisites: MAT 201 or PSY 201 or COM 230 or ECO 221 or HLH 299 or PED 434 or equivalent. (3 cr. hr.)

EXS 522: Sport in Contemporary Society

(O) Study of sport from social perspective, investigating the interrelationship of sport to other institutions. Course offers opportunity for critical review of literature in area of sport in society. (3 cr. hr.)

EXS 535: Neuromuscular Fitness Assessment and Programming

(F) Basic understanding of muscle structure, function, and physiology as it applies to strength and power. Review of types of strength training programs and techniques for developing goal-specific programs will be included. Lectures and laboratory. Not open to students with credit for EXS 435. (3 cr. hr.)

EXS 538: Cardio-Respiratory Fitness Assessment and Programming

(S) Integration of cardiorespiratory physiological concepts into the assessment of an individual's aerobic capacity and the application of these data in designing an effective aerobic exercise program. ACSM guidelines will be followed. Lectures and laboratory. Not open to students with credit for EXS 438. (3 cr. hr.)

EXS 546: Behavior in Sport

(O) Study psychological factors which influence behavior of men and women as they participate in physical activity and sport. (3 cr. hr.)

EXS 551: Philosophy of Sports and Physical Education

(O) Background, development of modern physical education; formulation of scientific principles which foster biological, sociological, and psychological benefits of physical education. (3 cr. hr.)

EXS 555: Physiology of Exercise II

(O) Physiological adaptations, mechanisms of change of function taking place as result of physical exercise. Physiological factors influencing human performance; environmental factors of altitude, space, temperature extremes; drugs and doping; age and gender; related problems in sport medicine. Prior knowledge of exercise physiology is expected. (3 cr. hr.)

EXS 558: Physiological Principles of Conditioning for Sports

(O) Application of physiological principles to development of specific conditioning components. Analysis of research implications and critical evaluation of current practices emphasized. Prerequisite: EXS 397. (3 cr. hr.)

EXS 565: Perceptual Motor Development

(O) Developmental processes from prenatal period to adolescence, with emphasis for elementary physical education. (3 cr. hr.)

EXS 575: Nutritional Aspects of Physical Fitness and Athletic Performance

(O) Application of metabolic and nutritional principles to performance patterns of athletes and individuals desiring to increase their physical fitness capacity. Includes role of carbohydrates, fats, proteins, vitamins, minerals, and water in exercise. Effects of dietary manipulation, fad diets, body composition, and ergogenic aids will be investigated. Prerequisite: EXS 397 or consent of instructor. (3 cr. hr.)

EXS 587: Advanced Biomechanics

(O) Application of fundamental laws of physics. Techniques of physical activities, sports in terms of mechanical principles. Available research reviewed. Prior knowledge of biomechanics is expected. (3 cr. hr.)