Economics

DEPARTMENT

SCHOOL
Arts and Sciences

FACULTY
Lisi Kroll (Chair), Howard Botwinick, Daryl Britton, Kathleen Burke, Keith Dayton, William J. Evans, Katherine Graham, Alan D. Haight, Tim Phillips, Susanne Polley, Judy Sears, John Shirley, Deborah Spencer, German A. Zarate

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)

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 provisional 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
• Women in Economics Club
• Economics Honor Society

Requirements
1. Degree Requirements listed on pages 38-45 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
• Financial analyst

A. Required Courses: 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

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
• Labor activist
• Country analyst
• Nonprofit project manager
• Import/export bank

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

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: Marxist Economics
ECO 402: Seminar in Economics

ECO 303: History of Economic Thought
ECO 304: Comparative Economic Systems
ECO 306: Comparative Approaches in Political Economy
ECO 307: Marxist 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 432: Fiscal Economics
- ECO 482: Labor Market Analysis
- ECO 494: Regional Economics
- ECO 400: Advanced Topics (in fields related to public policy)
- ECO 401: Co-op Education/Internship in 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 441: International Trade
- ECO 443: International Finance
- ECO 400: Advanced Topics (in fields relating to international political economy)
- ECO 401: Co-op Education/Internship in Economics

* 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 Microeconomics
- ECO 111: Principles of Microeconomics
- ECO 221: Economic Statistics
- ECO 222: Mathematical Economics or MAT 121 and MAT 122: Calculus A and B or MAT 125 and MAT 126: Calculus I and II
- ECO 301: Economics of the Firm
- ECO 352: Finance

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 306: American Political Economy
- ECO 307: Marxist 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 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 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: Co-op 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 485: 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 or
  - MAT 125 and 126: Calculus I and II
- ECO 301: Economics of the Firm
- ECO 352: Finance

**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:
  - BIO 102: Ecology and Human Environment
  - GRY 110: Physical Geography
  - GLY 160: Geology and the Human Environment
  - CHE 125: Chemistry and the Environment
  - POL 242: Environmental Policy
  - GIL 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 or
  - MAT 125 and 126: Calculus I and II
- ECO 301: Economics of the Firm
- ECO 352: Finance

**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 or
  - MAT 125 and 126: Calculus I and II
- ECO 301: Economics of the Firm
- ECO 352: Finance

**TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:** 124
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 304: Comparative Economic Systems
  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

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 or MAT 125 and 126: Calculus I and II
  ECO 300: Macroeconomic Theory
  ECO 301: Economics of the Firm
  ECO 352: Finance

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

Dual major in Adolescence Education: Social Studies and Economics (7-12) [SST and ECO]
This program is currently in the process of being reviewed by SUNY and the State Education Department.

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

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)
  H LH 199: Critical School Health Issues
  PSY 101: General Psychology I
  PSY 232: Adolescent Psychology
  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 hours 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.
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.
   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

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

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

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.

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

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 432: Fiscal Economics
   ECO 482: Labor Market Analysis
   ECO 494: Regional Economics
   ECO 400: Advanced Topics (in fields related to public policy)

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 441: International Trade
   ECO 443: International Finance
   ECO 400: Advanced Topics (in fields relating to international political economy)
   ECO 401: Co-op Education/Internship in Economics

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

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 15
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

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Spring

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Third Year

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Fourth Year

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Total credit hours: 18

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 macroeconomics, 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 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: Marxist Economics
(C) Principles of Marxist 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.) ■

Course codes: A = every semester, B = at least once per year, C = at least once every two years, F = fall, M = summer, O = occasionally, S = spring, W = winter, ■ = LAS
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 relationships 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: M GT 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, M GT 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 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 ECO 110. ECO 300 is recommended. (3 cr. hr.) 

ECO 452: Advanced Finance
(C) Examination and discussion of concepts introduced in ECO 352 and advanced 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 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. Juniors only. 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-hour field experience. 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 SSA 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 SSA majors meeting all departmental 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 SSA majors meeting all departmental requirements. S, U grades are assigned. (1 cr. hr.)
SCHOOL
Arts and Sciences

FACULTY

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.

Requirements
1. Degree Requirements listed on pages 38-45 of this catalog apply to all of the following majors.
2. Liberal Arts Requirements: 90 credit hours.

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 C- or better grade.

   TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

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

This 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
• Educational researcher
• Junior high school teacher

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 Adolescents
   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 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, EN G 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 falling 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 EN G 203, three of the four survey courses (325, 326, 355, 356), 374 and 433.
- PSY 101; PSY 232 or 332; H L H 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
P W R 209: Writing in Cyberspace
P W R 295: Introduction to Professional Writing
P W R 393: Technical Writing
P W R 395: Revising and Editing
P W R 399: Rhetoric
P W R 495: Internship in Professional Writing
P W R 497: Senior Seminar in Professional Writing
One course in creative writing: P W R 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: PH I 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.


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]

Note: This minor is currently undergoing curricular revision. Check with the department for updates.

Required Courses: Nine credit hours
- PWR 295: Introduction to Professional Writing
- PWR 393: Technical Writing
- PWR 395: Revising and Editing

Cluster One: 3-6 credit hours
- ENG 307: Computer Technology in the English Classroom
- PWR 209: Writing in Cyberspace I
- PWR 309: Writing in Cyberspace II
- PWR 398: Business Writing
- PWR 399: Rhetoric

Cluster Two: 3-6 credit hours
- PWR 212: Writing Fiction
- PWR 213: Writing Poetry
- PWR 323: Writing Children’s Literature
- PWR 413: Contemporary Poetics
- PWR 415: Experiments in Creative Writing

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

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

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
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<tr>
<td>Foreign language</td>
<td>Foreign language</td>
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<tr>
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<td>CPN 101 or 103</td>
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<tr>
<td>GE 1</td>
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<td>CAP</td>
<td>GE 3</td>
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<td>COR 101</td>
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<table>
<thead>
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<th>Fourth Year</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>PWR 395</td>
<td>PWR 495</td>
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<td>PWR 399</td>
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<td>GE 5</td>
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<td>GE 7</td>
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### 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.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>COR 101</td>
<td>PSY 101</td>
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<tr>
<td>CPN 100 or 102</td>
<td>ENG 325</td>
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<td><strong>Spring</strong></td>
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<td>CPN 101 or 103</td>
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**Third Year**

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<tr>
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<td>AED 309</td>
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<td>ENG 374</td>
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<td>ENG 411</td>
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<tr>
<td>AED 408</td>
<td>ENG literature before 1800</td>
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<tr>
<td>AED 409</td>
<td>ENG (400 level)</td>
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<td>AED 441</td>
<td>Course in minor</td>
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<tr>
<td>ENG 407</td>
<td>Elective</td>
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<td>ENG 433</td>
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<tr>
<td>Child Abuse Identification and Reporting workshop</td>
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<td>School Violence Prevention and Intervention workshop</td>
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**Fourth Year**

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<tbody>
<tr>
<td>GE 2</td>
<td>ENG literature before 1800</td>
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<tr>
<td>GE 7</td>
<td>ENG (400 level)</td>
</tr>
<tr>
<td>EDU 471</td>
<td>Course in minor</td>
</tr>
<tr>
<td>ENG 307</td>
<td>Elective</td>
</tr>
<tr>
<td>ENG elective in ethnic or multicultural literature</td>
<td>Total credit hours: 15</td>
</tr>
<tr>
<td>ENG 4__ course in literature before 1800</td>
<td></td>
</tr>
</tbody>
</table>

*Prerequisite for third-year courses: 2.75 GPA
*Prerequisite for student teaching: 2.75 GPA

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

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
</tr>
<tr>
<td>CPN 100 or 102</td>
<td>Foreign language</td>
</tr>
<tr>
<td>GE 1</td>
<td>GE 4</td>
</tr>
<tr>
<td>Free elective</td>
<td>COR 101</td>
</tr>
<tr>
<td>Total credit hours: 17-18</td>
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<tr>
<td>Spring</td>
<td>Spring</td>
</tr>
<tr>
<td>CPN 101 or 103</td>
<td>Foreign language</td>
</tr>
<tr>
<td>GE 3</td>
<td>M AT (Quantitative Skills)</td>
</tr>
<tr>
<td>ENG 203 (GE 6)</td>
<td>Total credit hours: 15-16</td>
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<tr>
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<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
</tr>
<tr>
<td>ENG (400 level)</td>
<td>ENG (400 level)</td>
</tr>
<tr>
<td>AED 376</td>
<td>Course in minor</td>
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<tr>
<td>AED 377</td>
<td>Elective</td>
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<table>
<thead>
<tr>
<th>Spring</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ENG literature before 1800</td>
<td>ENG literature before 1800</td>
</tr>
<tr>
<td>ENG (400 level)</td>
<td>ENG (400 level)</td>
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<tr>
<td>Course in minor</td>
<td>Course in minor</td>
</tr>
<tr>
<td>GE 2</td>
<td>Elective</td>
</tr>
<tr>
<td>Total credit hours: 15</td>
<td></td>
</tr>
</tbody>
</table>

**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: CPN 100 or 102. (3 cr. hr.)

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*Credit hours required for the B.A. [AEE/AEN]: 124-128

*Final grade point average must be 2.75 or better

*Note: A free elective may be chosen only if the foreign language requirement is satisfied.
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: 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 222, 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 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 nonfiction, 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: M. Doyle, O’Kiely, Stephens, Joyce, O’Connor, O’Faolain, M. Murdoch, Trevor. (3 cr. hr.) ■

ENG 458: Modern Irish Poetry
(O) Representative works of selected modern Irish poets, such as Yeats, Heaney, Boland, and M. Guckian. (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. (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.)

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 411: 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. Prerequisite: ENG 212, 213, and 325, 326, 355 or 356. (4 cr. hr.)

PWR 495: Internship in Professional Writing
(O) Supervised experience in the professional work force in areas such as publishing, multimedia, 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

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 science.
Environmental Management
See requirements listed under biological sciences.
Environmental Policy
See requirements listed under political science.
Outdoor Recreation Management and Education
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

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: Geology and the Human Environment 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):
   AN T 300: Human Evolution and Survival
   AN T 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
   PH Y 150: Astronomy
   POL 242: Environmental Policy
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.) ■

Course codes: A = every semester, B = at least once per year, C = at least once every two years, F = fall, M = summer, O = occasionally, S = spring, W = winter, ■ = LAS
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.)

Course codes: A = every semester, B = at least once per year, C = at least once every two years, F = fall, M = summer, O = occasionally, S = spring, W = winter, ■ = LAS
Exercise Science and Sport Studies

DEPARTMENT

SCHOOL
Professional Studies

FACULTY
John Cottone (Chair), Jeff Bauer, Farron Bennett, Phil Buckenmeyer, Sonya Comins, Jack Daniels, Alyson Dearie, Dan DePerno, Ted Fay, Joy Hendrick, Jim Hokanson, Wendy Hurley, Yomee Lee, Peter McGinnis, Steve Meyer, Susan Rayl, Lisa Scherer, Dave Snyder

MAJORS OFFERED
Bachelor of Science in Athletic Training
Bachelor of Science in Kinesiology: Exercise Science or Sport Studies
Bachelor of Science in Kinesiology: Fitness Development
Bachelor of Science in Sport Management
Bachelor of Arts in Sport Management

CONCENTRATIONS OFFERED
Exercise Science
Sport Studies

MINORS OFFERED
Sport Management
Exercise Science

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
1. Degree Requirements listed on pages 38-45 of this catalog apply to the following majors.
2. Liberal Arts Requirements:
   B.A. – 90 credit hours
   B.S. in Athletic Training – 60 credit hours
   B.S. in Sport Management – 75 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 Allied Health Education Programs (CAAHEP).

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 National Athletic Trainers Association 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/athtrain/ 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 3.0 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 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 of the American Heart Association. Candidates may receive the correct certifications by completing the HLH 120: Responding to Emergencies course offered on campus.

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 in January.

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
   General Education Requirements (28 cr. hr.)

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 414 for BIO 302.

C. Liberal Arts Electives: Five credit hours

D. Professional Education: 15 credit hours
   HLH 110: Personnel and Community Health*
   HLH 323: Foods and Nutrition *
   EXS 397: Exercise Physiology I
   EXS 387: Biomechanics
   EXS 287: Social/Psychological Aspects of Physical Education or
   EXS 345: Sport and Society or
   EXS 346: Sport Psychology

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

E. Athletic Training: 33 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 352: Strength and Conditioning in Athletic Training
   ATR 323: Clinical Education in Athletic Training I
   ATR 324: Clinical Education in Athletic Training II
   ATR 401: Pharmacology in Athletic Training
   ATR 423: Clinical Education in Athletic Training IV

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: 18 credit hours

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

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**Major in Kinesiology [KIN]**

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

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.

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)

Exercise Science Concentration Requirements: 24 credit hours
   MAT 121: Calculus A or MAT 125: Calculus I +
   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

D. Exercise Science and Sport Studies Activity Requirements

Sport Studies Concentration Activity Requirements: 18 credit hours
   PED 181: Adventure Activities
   PED 182: Health-Related Physical Fitness
   PED 288: Rhythms and Dance
   Aquatics activity elective
   Activity elective
E. Exercise Science Concentration Activity Requirements: Five credit hours
   PED 182: Health-Related Physical Fitness
   PED 288: Rhythms and Dance
   Aquatics activity elective
   Activity electives (two credit hours)

E. Free Electives
   Sport Studies Concentration: 16 credit hours
   Exercise Science Concentration: 27 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 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 +

B. Kinesiology Theory Core: 21 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
   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)
   PHY 105: Elementary Mechanics, Heat and Matter +
   PED 201 or MAT 201 or COM 230: Statistical Methods + or
   ECO 221: Economic Statistics + or
   MAT 121: Calculus A or MAT 125: Calculus I
   + May count toward liberal arts credit hours.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 35

Major in Sport Management [SPMG]

The degree in sport management is focused on the business and governance of sport as it applies to sport organizations in both the nonprofit and for-profit sectors. This program has been developed to reflect the North American Society for Sport Management's (NASSM) approved curriculum guidelines.

More information about sport management can be found on the Web at www.cortland.edu/spmgt/.

ADMISSION REQUIREMENTS

1. Acceptance to the major is competitive, and is dependent on space available and the candidate's academic record, behavioral and professional background.

2. Students wishing to major in sport management must have a minimum cumulative grade point average of 2.5 to be considered. Meeting this minimum standard does not guarantee admission into the program.

3. Students wishing to become majors by internally transferring from another major must submit a portfolio that includes:
   a) a change of major form
   b) a copy of their academic record
   c) a personal resume
   d) a personal statement explaining their interest in the major relative to their future academic and professional career interests.
REQUIREMENTS FOR SPORT MANAGEMENT MAJORS SEEKING A BACHELOR OF ARTS

A student can earn a B.A. by fulfilling the same professional requirements along with the addition of a foreign language (0-13 credit hours) for a total of 90 liberal arts credit hours.

CAREER POTENTIAL
• Sports marketing director
• Director of media relations
• Event/venue manager – Olympic Games
• Regional sales manager – sport product company

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 (3 cr. hr.)
General Education requirements (28 cr. hr.)

B. Required Courses: 36 credit hours

SPM 149: Event Management Practicum I
SPM 249: Event Management Practicum II
SPM 330: Foundations of Sport Management +
SPM 335: Information Technology in Sport
SPM 360: Sport Marketing +
SPM 373: Sport Law and Organizations +
SPM 466: Strategic Management of Sport Organizations +
SPM 470: Internship in Sport Management **
SPM 460: Applied Sport Sales and Marketing

C. Required Professional Electives: Six credit hours minimum from the following:

ECO 110: Microeconomics +
ECO 221: Economic Statistics + *
ECO 221: Economic Statistics +*
ECO 366: Economics of Sport +

D. Field Experiences: 12-18 credit hours

SPM 149: Event Practicum I
SPM 249: Event Practicum II
SPM 330: Sport Management Practicum
SPM 370: Pre-internship Conference
SPM 470: Internship in Sport Management

E. Required LAS Courses: 15 credit hours

PSY 101: General Psychology +
CAP 100: Introduction to Computer Applications +
COM 100: Human Communication +
EXS 345: Sport in Society +
EXS 420: Sport in American Culture +
COM 300: Interpersonal Communication or
COM 210: Public Speaking +

F. Other Required Management and Economics Foundation: 18 credit hours

MGT 250: Principles of Management +
MGT 253: Principles of Marketing +
MGT 254: Principles of Accounting
ECO 111: Principles of Microeconomics +
ECO 221: Economic Statistics +*
ECO 352: Finance +

G. Free Electives: 18 credit hours

* ECO 221 (Satisfies Quantitative Skills Requirement)
** Students will be eligible to apply CPV 400 internship credits as free elective credits. Students are able to use free elective credits to increase internship credits to 12-15.
+ May count toward liberal arts credit hours.

Note 1.) SPMG majors can only count two courses taken as part of their major toward minor in economics 2.) The minor in management is not open to sport management majors.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Minor in Sport Management [SPMG]

This minor is designed to be flexible enough to allow students majoring in other disciplines (e.g., economics and management, communications, prelaw, political science, exercise science and sport studies, and recreation) to be able to reasonably combine this minor together with their major. The following are the requirements for a minor in sport management which total 18 credit hours.

ADMISSION REQUIREMENTS

1. Acceptance as a minor will be dependent on space available and the candidate's academic record and background.
2. Students wishing to minor in sport management must have a minimum cumulative grade point average of 2.5 to be considered.
3. Students wishing to minor must submit a copy of their academic record, a personal resume and a personal statement explaining their interest in the minor relative to their professional career interests.
4. A declaration of interest to minor does not guarantee acceptance for a student.

A. Required Courses: Nine credit hours

MGT 250: Principles of Management
SPM 275: Foundations of Sport Management
SPM 466: Strategic Management of Sport Organizations

B. One course to be selected from the following: Three credit hours

EXS 345: Sport in Society
EXS 351: Philosophy of Sport
EXS 410: Ethics in Sport
EXS 420: Sport in American Culture

C. One course to be selected from the following: Three credit hours

SPM 330: Sport Media Management
SPM 335: Information Technology in Sport
SPM 360: Sport Marketing
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 233: Field Experience in Athletic Training I
(F) This course will provide students with the opportunity to develop 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 into the Athletic Training Program. (1 cr. hr.)

ATR 317: Acute Care of Injury and Illness
(S) The knowledge, skills and equipment used for the management and disposition of cute 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: Clinical Education in Athletic Training II
(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: Clinical Education in Athletic Training III
(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) This course 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 222. (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. Prerequisite: ATR 221, 222, acceptance into athletic training program, and consent of instructor. (3 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. (4 cr. hr.)

AEC 352: Strength and Conditioning for Athletes
(S) Basic understanding of the prevention/rehabilitation of athletic injuries through proper implementation/adaptations of strength and conditioning principles. This class will meet the guidelines established by the National Strength and Conditioning Association (NSCA). Lecture and laboratory activities associated with the athletic strength-training facilities, athletic training and computer facilities. Prerequisite: ATR 342. (3 cr. hr.)

AEC 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.)

AEC 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.)

AEC 423: Clinical Education in Athletic Training IV
(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.)

AEC 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 NATA Certification Exam. 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, helping to collect 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, collecting research data and/or completing other tasks as assigned by the instructor. Students must follow the guidelines of the 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 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 guidelines set forth by the department chair's office. Prerequisite: Consent of 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 considerations will also be concerned with the prevention, risk management, and the identification and treatment of sports-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, and 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 historical and philosophical development of the field. Emphasis is on the role and impact of the nation-state, the United States Soccer Federation (USSF), Federation Internationale de Football Association (FIFA), transnational corporations, and gender and class. Two field trips required for the course. Also listed as PSY 346. (3 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
(O) 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 physical education or kinesiology majors. (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 345: Sport and Society
(A) Role and influence of sports in social system. Influence of other social systems upon sport. (3 cr. hr.)

EXS 346: Sport and Exercise Psychology
(A) Selected psychological 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
(O) 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 H LH 357. (3 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 370: Pre-Internship Seminar in Fitness Development
(F) 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 371 or PED 438. (2 cr. hr.)

EXS 448: 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. Open only to juniors and seniors. Also listed as WST 445. (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. Open only to juniors and seniors. Also listed as WST 445. (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 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. Open only to juniors and seniors. Also listed as WST 445. (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 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 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. (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. (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, environment 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.)

Sport Management

SPM 129, 229, 329, 429, 529: Special Topics in Sport Management
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.)

SPM 149: Event Practicum I
(A) Introduction to game and event administration. Required minimum of 40 hours of on-site game administration including assisting in the planning, organizing, and conducting of SUNY Cortland intercollegiate athletic events during a given semester. Required of all first year majors including transfer students. (1 cr. hr.)

SPM 227: Stadium and Arena Management
(C) Devoted to teaching students how to supervise, market, finance, schedule and administer stadiums and arenas. Deals in areas of maintenance, daily operations, and contracting of the building. (3 cr. hr.)

SPM 249: Event Practicum II
(A) Game and event administration progressing to some supervisory duties. Minimum of 40 hours of on-site game administration involving SUNY Cortland intercollegiate athletic events. Hours can be accumulated over the course of fall and spring semesters. Required of all second year majors including transfer students. Prerequisite: SPM 149. (1 cr. hr.)

SPM 275: Foundations of Sport Management
(A) Course examines the discipline of sport management. Relationship of interdisciplinary body of knowledge, technological and interpersonal communication skills and management styles are presented. (3 cr. hr.)

SPM 311: Legal Issues in Physical Education and Sport
(B) Study of legal issues affecting management of sport programs. Focus is on liability as it affects teachers, coaches, administrators, and sport management personnel. Prerequisite: junior status or consent of instructor. (3 cr. hr.)

SPM 320: Sport Entrepreneurship
(C) A detailed analysis of the management and marketing of sporting goods companies and sport retail businesses including e-commerce in sport-related enterprises. Students will study trends, display, target marketing, marketing demographics, customer service, and the basic functions of selling and managing a retail business operation. Purchasing, inventory control, cost and price analysis, supplier relationships, offshore procurement, and quality and ethical considerations will be examined. (3 cr. hr.)

SPM 330: Sport Media Management
(A) Introduction to the structure, function, role and effects of the mass media in the sport industry. Study of principles and fundamentals through application of approaches to sport information and media relations. Includes the development and production of promotional, informational, and news-oriented material. (3 cr. hr.)

SPM 335: Information Technology in Sport
(A) A comprehensive investigation of the current applications of information and communication technology and database management utilized in sport organizations within the intercollegiate, professional, and international segments of the sport industry. Students will use common database, spreadsheet and proprietary software used within the industry to analyze and solve management problems. Prerequisite: CAP 100. (3 cr. hr.)

SPM 349: Sport Management Practicum
(A) Opportunity for students to be involved in an applied working environment related to their specific career interests in sport management. Students must present detailed outline of proposed practicum including learning objectives and outcomes to a faculty sponsor. Can be used as an internship-type placement with an off-campus sport organization or under the auspices of a SUNY Cortland athletic staff or sport management faculty member. Prerequisites: PED 275 or SPM 275, consent of program coordinator and instructor. (3 cr. hr.)

SPM 355: Sport Event Management
(F-C) Overview of all elements involved in sport event management. Key component of course is the planning, organizing, marketing, and conducting of a sport event on campus during the semester. (3 cr. hr.)
SPM 360: Sport Marketing
(A) 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 MGT 360. (3 cr. hr.) ■

SPM 370: Pre-Internship Seminar in Sport Management
(A) Development and analysis of internship and career goals including an exploration of characteristics of the profession in relation to personal and professional goals. Emphasis on development of a professional portfolio. Professional ethics and etiquette will be explored. (1 cr. hr.)

SPM 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 MGT 373. (3 cr. hr.) ■

SPM 410: Ethics in Sports
(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 EXS 410. (3 cr. hr.)

SPM 430: Applied Sport Media Management
(A) An applied sport media management class involving the application of basic journalistic and communication principles and practices as used in sport information and sport media relations. Students will be involved in the coverage and media support of team events involving SUNY Cortland intercollegiate athletic teams. Semester-long project required. Prerequisites: SPM 330. (3 cr. hr.)

SPM 435: Applied Information Technology in Sport
(A) An applied information technology class involving the application of IT principles using specific software involving database and Web-based projects. Specific introduction to proprietary software systems will be introduced. Semester-long project involving Avid clients will be required. Prerequisites: SPM 335. (3 cr. hr.)

SPM 440: The International Experience in Sport
(B) Focus on the globalization of sport with an emphasis on the organization, governance, and management of international sport, including the Olympic and Paralympic Games and FIFA World Cup. Comprehensive investigation of the structural and cultural environments in which U.S. organizations and corporations must consider in conducting business in foreign markets. Major semester-long project includes the development of a bid document for a U.S. city to host a major international sports event. (3 cr. hr.) ■

SPM 444: Laboratory Assistant in Sport Management
Student may assist with the lab portion of one of several sport management 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.)

SPM 460: Applied Sport Sales and Marketing
(A) An applied sport promotion class involving the application of promotional theory, event planning and management, public relations, sponsorship proposal writing and the sales and solicitation of sponsorships to an existing sports event, sport organization, or team. Semester-long project required. Prerequisites: SPM 360. (3 cr. hr.)

SPM 466: Strategic Management of Sport Organizations
(A) Investigates the skills and knowledge applicable to the process of planning for an organization's future including a focus on contemporary issues. Key elements of policy development and strategic planning will be considered including the roles of mid and top level managers, strategy formulation, ethical and environmental analysis, and strategy implementation. Prerequisite: PED 275 or SPM 275. (3 cr. hr.) ■

SPM 470: Internship in Sport Management
(A) Fourteen weeks of supervised full-time internship experience in either the profit or nonprofit sector of sport management. Students will be placed in a sport organization within a defined sport industry segment relative to their career goals and interests. Prerequisites: SPM 275, SPM 370, senior status, approval of the program coordinator, cumulative grade point average of at least 2.5 in the major and a 2.25 overall grade point average. (9-15 cr. hr.)

SPM 499: Special Study in Sport Management
(A) Independent study/research on selected topics. Topics may include in-depth study of a particular subject area. Student will work with faculty member 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 program coordinator. (1-3 cr. hr.)

Course codes: A = every semester, B = at least once per year, C = at least once every two years, F = fall, M = summer, O = occasionally, S = spring, W = winter, ■ = LAS