Economics

DEPARTMENT

SCHOOL
Arts and Sciences

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

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

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

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

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.

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

Old Main, Room 136
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www.cortland.edu/economics/
The department offers two different concentrations that lead to the B.A. in economics: one leads to a traditional economics degree, the other emphasizes international political economy and public policy. Moreover, courses in the economics major may be combined with a professional sequence leading to qualification for initial certification as a teacher of secondary social studies.

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

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

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

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

**CAREER POTENTIAL**
• Banker  • Consultant
• Economist  • Financial analyst
• Financial analyst  • Labor activist
• City planner  • Nonprofit project manager

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

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

B. 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

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

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

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

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

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

**TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124**

**Major in 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**
• Banker  • Consultant
• Economist  • Financial analyst
• Financial analyst  • Labor activist
• City planner  • Nonprofit project manager

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

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

B. Required Core in Political Economy: Six credit hours
ECO 303: History of Economic Thought
ECO 304: Comparative Economic Systems
ECO 306: Comparative Approaches in Political Economy
ECO 307: 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)*:

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ECO 325: Political Economy of Women
ECO 326: Political Economy of Race and Class
ECO 335: Resource and Environmental Economics
ECO 383: Labor Economics
ECO 393: Urban Economics
ECO 400: Research Experience in Economics (in fields related to public policy)
ECO 401: Coop Education/Internship in Economics
ECO 432: Fiscal Economics
ECO 482: Labor Market Analysis
ECO 494: Regional Economics

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

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

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

**TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124**
Major in Business Economics (BUSE)

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

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

**CAREER POTENTIAL**

- Economic consultant
- Entrepreneur
- Policy analyst

**A. Required Core in Economics:** 21 credit hours

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

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

**B. Required Core in Management:** 18 credit hours

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

**C. Elective Courses:** 12 credit hours

The requirements for this section may be met by either:

A semester of study abroad or

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

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

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

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

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

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

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

- ECO 300: Macroeconomic Theory
- ECO 325: Political Economy of Women
- ECO 326: Political Economy of Race and Class
- ECO 335: Resource and Environmental Economics
- ECO 340: Government and Business: Regulation and Public Policy
- ECO 366: The Economics of Sport
- ECO 383: Labor Economics
- ECO 385: Human Resource Management
- ECO 393: Urban Economics
- ECO 401: 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 482: Labor Market Analysis
- ECO 494: Regional Economics

Three additional credit hours in any one of the above categories

**TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:** 124

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

**Major in Business Economics with a concentration in Environmental Management (BUSE/ENMG)**

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

**CAREER POTENTIAL**

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

**A. Required Core in Economics:** 21 credit hours

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

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

**B. Required Core in Management:** 18 credit hours

- CAP 100: Introduction to Computer Applications
- MGT 250: Principles of Management
- MGT 253: Principles of Marketing or ECO 385 or COM 302 or 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 Economic Development selected from the following courses:

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

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

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

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

- ECO 300: Macroeconomic Theory
- ECO 325: Political Economy of Women
- ECO 326: Political Economy of Race and Class
- ECO 335: Resource and Environmental Economics
- ECO 340: Government and Business: Regulation and Public Policy
- ECO 366: The Economics of Sport
- ECO 383: Labor Economics
- ECO 385: Human Resource Management
- ECO 393: Urban Economics
- ECO 401: 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 482: Labor Market Analysis
- ECO 494: Regional Economics

Three additional credit hours in any one of the above categories
C. Elective Courses: 15 credit hours
Nine credit hours:
- EST 100: Introduction to Environmental Studies
- ECO 335: Resource and Environmental Economics
- ENS 486: Seminar in Environmental Science

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

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics with a concentration in Financial Management [BUSE/FMGMT]
The financial management concentration allows interested students to pursue courses that will allow them to function well in any area of finance. Proper financial management is an essential function of organizations and an important skill for individuals as well.

CAREER POTENTIAL
- Banker
- Financial planner
- Mortgage analyst
- Stock broker

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

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

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

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Business Economics with a concentration in Human Resource Management [BUSE/HRM]
The increased realization of the importance and diversity of the employees of an organization is captured in the concentration in human resource management.

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

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

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

B. Required Core in Management: 18 credit hours
- CAP 100: Introduction to Computer Applications
- MGT 250: Principles of Management
- MGT 253: Principles of Marketing or ECO 385 or COM 302 or 303 or 320 or 421 or 422
- MGT 254: Principles of Accounting I
- MGT 423: Computer Applications in Economics and Management
- MGT 454: Strategic Management

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
• Import/export manager
• International exchange trader
• International law and business

A. Required Core in Economics: 21 credit hours

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

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

B. Required Core in Management: 18 credit hours

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

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

ECO 304: Comparative Economic Systems
ECO 305: Political Economy of Globalization
ECO 311: Economic Development
ECO 312: Economic Development of Latin America
ECO 313: Economic Development of Asia
ECO 401: Co-op Education/Internship in Economics
ECO 421: Econometrics
ECO 441: International Trade
ECO 443: International Finance

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

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

CAREER POTENTIAL

• High school teacher
• Consultant
• Economist
• Financial analyst

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

A. Required Courses in Economics: 18 credit hours

ECO 105: Political Economy and Social Thought
ECO 110: Principles of Macroeconomics
ECO 111: Principles of Microeconomics
ECO 221: Economic Statistics or
ECO 222: Mathematical Economics
ECO 300: Macroeconomic Theory
ECO 301: Economics of the Firm

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

B. Professional Preparation: 44-68 credit hours (including additional social science courses)

HLH 199: Critical School Health Issues
PSY 101: General Psychology I
PSY 232: Adolescent Psychology or
PSY 332: Educational Psychology
ECO 105: Political Economy and Social Thought
GRY 425: Geography in the Classroom or
GRY 482: Central America and the Caribbean or
GRY 484: Geography of Europe or
GRY 486: Monsoon Asia
GRY 480: United States or
GRY 481: Geography of New York State
POL 100: Introduction to American Government and Politics
HIS 100: The World to 1500 and
HIS 101: The World since 1500 or
HIS 110: Western Civilization to 1715 and
HIS 111: Western Civilization since 1715
HIS 200: The United States to 1877 and
HIS 201: The United States from 1877 and

Three additional hours of history at the 300 level or above

AED 310: Grammar and the Writing Process or
LIT 449: Literacy in the Middle and Secondary School or
LIT 549: Literacy in the Middle and Secondary School
SHH 300: Normal Language Development or
PSY 350: Psychology of Language

D. Professional Sequence: Junior year, four credit hours

AED 391: Introduction to Adolescence Education
Fall semester only. A 25-hour field requirement is attached to this course.

AED 300: Introduction to Secondary Social Studies
Spring semester only. A 35-hour field requirement is attached to this course. Requires acceptance into the adolescence education: social studies (SST) major.
E. Professional Sequence: Senior year, 21 credit hours
AED 301: Pre-practice Teaching Seminar
Fall semester only. A 40-hour field requirement is attached to this course and must be completed in the preceding spring semester.
Student Teaching: Spring semester only. No other courses may be taken during the student teaching semester.
AED 400: Student Teaching I
AED 401: Student Teaching II
AED 402: Student Teaching Seminar

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

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 126

Minor in Management [MGT]
A. Required Courses: 12 credit hours
ECO 105: Political Economy and Social Thought
MGT 250: Principles of Management
MGT 254: Principles of Accounting I
ECO 352: Finance
Note: A minimum grade of C- in the foundational classes (ECO 105 and ECO 110 if taken as an elective) is required for all management minors before taking upper-level courses that require any of these foundational classes as prerequisites.
B. Other Courses: Six credit hours from the following:
CAP elective above CAP 100
ECO 111: Principles of Microeconomics
PHI 233: Management Ethics
MGT 253: Principles of Marketing
MGT 255: Principles of Accounting II
MGT 265: Business Law
COM 302: Intercultural Communication or
COM 303: International Communication or
COM 320: Organizational Communication or
COM 421: Mass Media Advertising or
COM 422: Public Relations
ECO 385: Human Resource Management

Note: 1) SPMG majors can only count two courses taken as part of their major toward the minor in economics.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 18

Minor in Economics [ECO]
A. Required Courses: Nine credit hours
ECO 105: Political Economy and Social Thought
ECO 110: Principles of Macroeconomics
ECO 111: Principles of Microeconomics
Note: A minimum grade of C- in the foundational classes (ECO 105, ECO 110 and ECO 111) is required for all economics minors before taking upper-level courses that require any of these foundational classes as prerequisites.
B. Elective Courses: Six credit hours
Two economics electives (300 level or above).
Note: 1) MGT courses do not count toward the minor in economics.
2) SPMG majors can only count two courses taken as part of their major toward the minor in economics.
TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 15

Minor in Political Economy and Public Policy [PEPP]
A. Required Course: Three credit hours
ECO 105: Political Economy and Social Thought
Note: A minimum grade of C- in ECO 105 is required for all political economy minors before taking upper-level courses that require this class as a prerequisite.
B. Other Courses: Six credit hours from the following:
ECO 303: History of Economic Thought
ECO 304: Comparative Economic Systems
ECO 306: Comparative Approaches in Political Economy
ECO 307: Marxian Economics
ECO 402: Seminar in Economics
C. Other Courses: Three credit hours from the following:
ECO 300: Macroeconomic Theory
ECO 306: Comparative Approaches in Political Economy
ECO 325: Political Economy of Women
ECO 326: Political Economy of Race and Class
ECO 335: Resource and Environmental Economics
ECO 383: Labor Economics
ECO 393: Urban Economics
ECO 400: Research Experience in Economics
(ECO 400 is in fields related to public policy)
ECO 432: Fiscal Economics
ECO 482: Labor Market Analysis
ECO 494: Regional Economics
D. Other Courses: Three credit hours from the following:
ECO 304: Comparative Economic Systems
ECO 311: Economic Development
ECO 312: Economic Development in Latin America
ECO 313: Economic Development of Asia
ECO 400: Research Experience in Economics
(ECO 400 is in fields relating to international political economy)
ECO 401: Co-op Education/Internship in Economics
ECO 441: International Trade
ECO 443: International Finance
Note: MGT courses do not count toward the minor in political economy and public policy.
TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 15-17
**Example of the bachelor’s degree in Business Economics over four years**

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

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<th>First Year</th>
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<th>Third Year</th>
<th>Fourth Year</th>
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**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**

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

**ECO 301: Economics of the Firm**

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

**ECO 302: History of Economic Thought**

(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 economics are discussed with selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for credit. (1-4 cr. hr.)

**ECO 303: History of Economic Thought**

(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 economics are discussed with selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for credit. (1-4 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 economics are discussed with selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for credit. (1-4 cr. hr.)

**ECO 305: Political Economy of Globalization**

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

**ECO 306: Comparative Approaches in Political Economy**

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

**ECO 307: 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.)

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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 = LAS
ECO 311: Economic Development
(C) Alternative roads to economic growth and development. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 312: Economic Development of Latin America
(C) Introduction to social, economic problems associated with process of economic development (or "underdevelopment") in Latin America from perspectives of economic history and analysis of current economic issues. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 313: Economic Development of Asia
(C) Overview of economic history and current economic concerns of different subregions of Asia (East, Southeast, South Asia in particular). One or more countries will be emphasized, and specific economic issues of current interest will be analyzed. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 325: Political Economy of Women
(C) Political economic analysis of participation and status of women in the economy. Special emphasis is placed on analyzing labor force participation rates over time, historical trends in occupational sex segregation, wage differences based on sex, and women’s struggle for economic equality. Additionally, international, racial, and ethnic differences in the economic status of women are covered. Prerequisites: ECO 105 and 111. (3 cr. hr.) ■

ECO 326: Political Economy of Race and Class
(C) Examines the economic, historical and institutional forces that have seriously undermined the promise of equal opportunity for all people within the U.S. Topics include: contrasting views on discrimination in the labor market; racial and ethnic conflicts in the labor movement; de-industrialization and urban poverty; current debates on race and class in America. Prerequisite: ECO 105. (3 cr. hr.) ■

ECO 335: Resource and Environmental Economics
(C) Course explores relationship between our modern market economy and present ecological and environmental problems. Students are introduced to models of steady state and ecological economics in addition to more traditional approaches to issues of depletion (conservation) and allocation of renewable and nonrenewable resources, pollution, population and food production. Prerequisite: ECO 111. (3 cr. hr.) ■

ECO 340: Government and Business: Regulation and Public Policy
(C) Structure, conduct, performance of American industry; antitrust legislation, other aspects of public regulation and control; economic analysis of selected legal cases. Prerequisites: ECO 110, 111 and 301. (3 cr. hr.) ■

ECO 352: Finance
(A) Fundamentals of finance emphasizing the financing, investing, and financial management decisions made by businesses. Topics include financial markets and financial analysis, time value of money, asset valuation, risk and return, capital budgeting. Prerequisite: MGT 254. (3 cr. hr.) ■

ECO 366: The Economics of Sport
(B) Application of economic theory to professional and amateur sports. Topics include analysis of sports institutions, labor relations, and the role of in government in sports markets. Prerequisites: ECO 111 and ECO 221 or MAT 201 or PSY 201, or COM 230. (3 cr. hr.) ■

ECO 383: Labor Economics
(C) Introduction to contemporary issues in labor relations. Topics include: modern dynamics of capitalist labor process, economic and social consequences of mechanization, wages determination, role of trade unions. Prerequisites: ECO 105 and ECO 110 or 111. (3 cr. hr.) ■

ECO 385: Human Resource Management
(C) Strategic role and functional responsibilities of human resource management in a multicultural society. Prerequisites: ECO 105, MGT 250. (3 cr. hr.) ■

ECO 393: Urban Economics
(O) Description and analysis of urban economy; urban location, land use theory; goals, processes, problems, policy in urban economic development. Prerequisites: ECO 110, 111. (3 cr. hr.) ■

ECO 400: Research Experience in Economics
(A) Supervised research experience in economics or business economics. Prerequisite: Junior or senior economics or business economics majors and consent of department. H, S, U grades assigned. May be repeated once for a maximum of six credit hours. (1-3 cr. hr.)

ECO 401: Co-op Education/Internship in Economics
(A) Field study program covering off-campus experiences in the area of applied economics. Open to economics majors or business economics majors only. Students must be in good academic standing and initiate the process through the Internships and Volunteer Office. Course offered on S, U grading system only. Prerequisite: Consent of department. (3 cr. hr.)

ECO 402: Seminar in Economics
(O) Examination, discussion of selected economic problems. (3 cr. hr.)

ECO 421: Econometrics
(C) Application of statistical techniques to analysis of economic data. Simple and multiple regression; structure of econometric models; distributed lags; forecasting. Prerequisite: ECO 221. (3 cr. hr.) ■

ECO 431: Money and Banking
(C) Money and economic activity: money and capital markets; monetary, income theory; central banking; elements of international finance; public policy issues. Prerequisites: ECO 110, 111, 300, 352, or consent of department. (3 cr. hr.) ■

ECO 432: Fiscal Economics
(C) Development and structure of modern public economy: economics of government taxation; spending, debt management; intergovernmental fiscal relations; fiscal theory; public policies, issues. Prerequisites: ECO 110, 111, 300. (3 cr. hr.) ■

ECO 441: International Trade
(C) Examination and discussion of why nations trade, barriers to trade, commodity composition, trade problems of developed and developing nations, selected topics. Prerequisites: ECO 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 301 recommended. (3 cr. hr.) ■

ECO 452: Advanced Finance
(C) Examination and discussion of concepts introduced in ECO 352 and enhanced development of topics such as: capital budgeting, financial statement analysis, cash flow management, dividend policy, capital structure, working capital management, current asset management, mergers, acquisitions, divestiture and bankruptcy. Prerequisites: ECO 352. (3 cr. hr.) ■
ECO 455: Asset Markets  
(C) Analysis of stock, bond, option and commodity markets and the federal tax treatment of gains and losses. Students learn relationships between different markets, between risks and rates of return, and between level of interest rates and level of asset prices. Prerequisites: ECO 111 and 352. (3 cr. hr.) ■

ECO 482: Labor Market Analysis  
(C) Advanced course in labor economics, including in-depth analysis of supply and demand for labor, competitive wage determination, wage differentials, labor market segmentation. Contrasting perspectives are presented. Prerequisites: ECO 111 and either 301 or 383. (3 cr. hr.) ■

ECO 494: Regional Economics  
(O) Process of regional economic growth: location theory, techniques of regional analysis; regional economic development problems and policies. Prerequisites: ECO 110, 111, 300, 301. (3 cr. hr.) ■

ECO 501: Workshop in Economics  
(O) Discussion of economic problems with special attention to needs of social science teachers. Prerequisite: Consent of department. (3 cr. hr.) ■

Management Courses

MGT 250: Principles of Management  
(A) Management essentials of planning, organizing, staffing, controlling and leading; structure, functioning of organizations. (3 cr. hr.) ■

MGT 253: Principles of Marketing  
(A) Introduction to marketing system; marketing principles and practice; application of marketing techniques. (3 cr. hr.) ■

MGT 254: Principles of Accounting I  
(A) Introduction to basic accounting concepts and procedures. Topics include preparation of financial statements, depreciation policies, payroll accounting, present value theory. Does not fulfill requirements for economics major or minor. (3 cr. hr.)

MGT 255: Principles of Accounting II  
(S) Corporate accounting practice. Topics include stock and bond transactions, working capital, financial and break-even analysis, and inflation-adjusted statements. Note: Not open to freshmen. Does not fulfill requirements for economics major or minor. Prerequisite: MGT 254. (3 cr. hr.)

MGT 256: Business Law  
(A) Basic legal considerations in starting a business, acquiring assets, making contracts with suppliers and customers; applications in selected case studies. (3 cr. hr.) ■

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

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

MGT 423: Computer Applications in Economics and Management  
(B) Problem-solving oriented course using spreadsheet and statistical software to analyze and solve economics and management problems. Prerequisites: ECO 110, 111, CAP 100. (3 cr. hr.)

MGT 454: Strategic Management  
(A) Integrative study of strategic decision making in organizations. Application of economic and management concepts developed in prior course work; in addition, an intensive use of case studies will be incorporated. Prerequisites: senior status. ECO 352. (3 cr. hr.) ■

MGT 456: Co-op Education/Internship in Management  
(A) Field study program covering off-campus experiences in area of management. Open to business economics majors only. Student is required to have a minimum grade point average of 3.0 and obtain a job with significant responsibilities. Student must initiate the process through the Internships and Volunteer Office. Course offered on S, U grading system only. Prerequisite: Consent of department. (3-16 cr. hr.)

Related Education Courses

AED 300: Introduction to Secondary Social Studies  
(S) Introduction to social studies education on the secondary level. Includes pre-student teaching field experience of 35 hours. Open only to junior SST majors meeting all departmental requirements. Prerequisite: AED 391. (1 cr. hr.)

AED 301: Pre-Practice Teaching Seminar  
(F) Integrated study of: A) introduction to methods of teaching secondary social studies; B) introduction to contemporary issues in the teaching of secondary social studies; C) preparation for specific practice teaching assignment; D) 40-hours of field experience. Open only to senior SST majors meeting all departmental requirements. Prerequisites: AED 300 and 391. (6 cr. hr.)

AED 391: Introduction to Adolescence Education  
(A) Students will develop a coherent and comprehensive personal educational philosophy; analyze the role of education and teachers in society; demonstrate an understanding of teacher certification standards and requirements; evaluate teaching, lesson planning and implementation and cooperative skills; and develop a portfolio. The course includes 25 hours of field observation/teaching experience. (3 cr. hr.)

AED 400: Student Teaching I: Adolescence Education Social Studies  
(S) Full-time supervised adolescence education: social studies teaching experience in the public schools for eight weeks. This experience will be one of two school placements, at either the middle school/junior or high school level; the second experience must be at the other level. Prerequisites: AED 300, 301 and 391. Corequisites: AED 401 and 402 must be taken in the same semester. Open only to senior SST majors meeting all departmental requirements. S, U grades are assigned. (7 cr. hr.)

AED 401: Student Teaching II: Adolescence Education Social Studies  
(S) Full-time supervised adolescence education: social studies teaching experience in the public schools for seven weeks. This experience will be one of two school placements, at either the middle school/junior or high school level; the second experience must be at the other level. Prerequisites: AED 300, 301 and 391. Corequisites: AED 400 and 402 must be taken in the same semester. Open only to senior SST majors meeting all 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 SST majors meeting all departmental requirements. S, U grades are assigned. (1 cr. hr.)
Major in Adolescence Education: English (7-12) [AEE/AEN]

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

**CAREER POTENTIAL**

- High school teacher
- Junior high school teacher

**Requirements**

1. Degree Requirements listed on pages 38-48 of this catalog apply to all of the following majors.
2. Liberal Arts Requirements: 90 credit hours.
A. Required Content Courses: 36 credit hours

ENG 203: Introduction to Poetry
ENG 307: Computer Technology in the Classroom
ENG 325: American Literature Before 1900
ENG 326: American Literature Since 1900
ENG 355: Major Figures in British Literature to 1780
ENG 356: Major Figures in British Literature 1780 to Present
ENG 374: Literature for Adolescence
ENG 411: World Literature
ENG 407: Study of the English Language
ENG 433: Shakespeare

ENG 4__: Additional course in literature before 1800
Choose one from the following:
ENG 438: Seventeenth-Century Poetry and Prose
ENG 440: The Age of Satire
ENG 441: The Age of Sensibility
ENG 442: Restoration and Eighteenth-Century Drama

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

B. Required Professional Courses: 41-42 credit hours

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

Total number of program credits: 77-78

C. AEE/AEN Coding Policy

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

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

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

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

E. Student Teaching Policy

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

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

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

F. Departmental Policy on Retaking Required Courses

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

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124-128
Major in Professional Writing [PWRT]

**CAREER POTENTIAL**
- Technical writer
- Publications writer
- Lawyer
- Freelance writer

Professional writing courses to total 34 credit hours:

A. Required Courses: 25 credit hours
   - PWR 209: Writing in Cyberspace I
   - PWR 295: Introduction to Professional Writing
   - PWR 393: Technical Writing
   - PWR 395: Revising and Editing
   - PWR 399: Rhetoric
   - PWR 495: Internship in Professional Writing
   - PWR 497: Senior Seminar in Professional Writing
   - One course in creative writing: PWR 212, 213 or 315

B. At least nine hours of elective professional writing courses, six hours at the 400 level.

C. Additional Courses: 12 credit hours
   - English courses: Nine credit hours with at least six credit hours at the 300 level or higher.
   - Philosophy course in ethics: PHI 203, 240 or 382

**TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:** 124

Minor in English with an emphasis in Literature [ENL]

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


**TOTAL CREDIT HOURS REQUIRED FOR THE MINOR:** 18

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

Required Courses: Six credit hours
   - ENG 201: Introduction to Language Studies
   - ENG 402: Grammar

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

**TOTAL CREDIT HOURS REQUIRED FOR THE MINOR:** 18

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

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

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

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

**TOTAL CREDIT HOURS REQUIRED FOR THE MINOR:** 18

Minor in Professional Writing [PWRT]

A. Required Courses: Three credit hours
   - PWR 295: Introduction to Professional Writing

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

**TOTAL CREDIT HOURS REQUIRED FOR THE MINOR:** 18

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

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>CPN 100 or 102</td>
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<tr>
<td>Foreign language</td>
<td>ENG 326</td>
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<tr>
<td>GE 3</td>
<td>ENG 356</td>
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<td>MAT (Quantitative Skills)</td>
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<td>ENG literature before 1800</td>
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<td><strong>Fourth Year</strong></td>
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</table>
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.

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<th>Second Year</th>
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<td>Minor or elective</td>
</tr>
<tr>
<td>Total credit hours: 17-18</td>
<td><strong>Fourth Year</strong></td>
</tr>
<tr>
<td>PWR 497</td>
<td>Minor or elective</td>
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<tr>
<td>PWR elective</td>
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<td>Minor or elective</td>
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<tr>
<td>Total credit hours: 15</td>
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</tr>
<tr>
<td>PWR 209</td>
<td>Foreign language</td>
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<tr>
<td>PWR 295</td>
<td>CPN 101 or 103</td>
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<tr>
<td>Foreign language</td>
<td>GE 2</td>
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<tr>
<td>GE 4</td>
<td>GE 3</td>
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<tr>
<td>GE 8a</td>
<td>Foreign language or free elective*</td>
</tr>
<tr>
<td>Total credit hours: 16-17</td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>PWR 393</td>
</tr>
<tr>
<td>CPN 100 or 102</td>
<td>PWR elective</td>
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<tr>
<td>GE 1</td>
<td>PWR elective</td>
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<tr>
<td>CAP</td>
<td>English elective</td>
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<td>Total credit hours: 18</td>
<td><strong>Spring</strong></td>
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<tr>
<td>PWR 212, 214 or 315</td>
<td>Philosophy elective</td>
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<tr>
<td>Foreign language</td>
<td>English elective</td>
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<tr>
<td>GE 6</td>
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<tr>
<td>Philosophy elective</td>
<td>English elective</td>
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<tr>
<td>Total credit hours: 16-18</td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>AED 308</td>
<td>Child Abuse Identification and Reporting workshop</td>
</tr>
<tr>
<td>AED 309</td>
<td>School Violence Prevention and Intervention workshop</td>
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<tr>
<td>AED 341</td>
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<tr>
<td>ENG 374</td>
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<td>ENG 433</td>
<td>AED 408</td>
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<td>AED 408</td>
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<td>AED 409</td>
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<td>ENG 407</td>
<td>GE 7</td>
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<tr>
<td>ENG 411</td>
<td>EDU 471</td>
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<tr>
<td>Child Abuse Identification and Reporting workshop</td>
<td>Total credit hours: 12</td>
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<tr>
<td>and Reporting workshop</td>
<td>AED elective in ethnic or multicultural literature</td>
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<tr>
<td>School Violence Prevention and Intervention workshop</td>
<td>ENG 4__ course</td>
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<td>Total credit hours: 15</td>
<td>English elective in literature before 1800</td>
</tr>
<tr>
<td><strong>Fourth Year</strong></td>
<td><strong>Spring</strong></td>
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<tr>
<td>PWR 393</td>
<td><strong>Fall</strong></td>
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<tr>
<td>PWR 495</td>
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<td>Total credit hours: 15</td>
<td><strong>Spring</strong></td>
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<tr>
<td>PWR 497</td>
<td>Minor or elective</td>
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<td>PWR elective</td>
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<td>Minor or elective</td>
<td>Total credit hours: 15</td>
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<tr>
<td><strong>Fall</strong></td>
<td>English Course Descriptions</td>
</tr>
<tr>
<td>CPN 100: Academic Writing I</td>
<td>(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.) ■</td>
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<tr>
<td>CPN 101: Academic Writing II</td>
<td>(A) Focuses on analysis, synthesis, argument, and research. Students learn to analyze and critique readings, produce essays based on multiple sources, and conduct library research. Prerequisite: A grade of C- or better in CPN 100 or 102. (3 cr. hr.) ■</td>
</tr>
</tbody>
</table>

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

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

Final grade point average must be 2.75 or better
ENGLISH

EN 200: Introduction to Literature
(A) Introduction to systematic study of literature. Emphasis on fiction, with attention to poetry and drama. (3 cr. hr.)

EN 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.)

EN 202: Introduction to Fiction
(A) Introduction to reading and analysis of short story, novella, novel. (3 cr. hr.)

EN 203: Introduction to Poetry
(A) Introduction to reading and analysis of poetry. (3 cr. hr.)

EN 204: Introduction to Drama
(B) Introduction to basics of theatrical literature. (3 cr. hr.)

EN 220: Introduction to Western Literature I
(O) Major phases of literary heritage of Western World from Classical Age to Renaissance. (3 cr. hr.)

EN 221: Introduction to Western Literature II
(O) Major phases of literary heritage of Western World from Enlightenment to Modern Period. (3 cr. hr.)

EN 229, 329, 429, 529: Special Topics in English
Selected topics. May be taken more than once as subtitle changes. Prerequisites: Designated by department as appropriate for content and academic level of credit. (1-4 cr. hr.)

EN 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.)

EN 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.)

EN 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.)

EN 256: Introduction to American Indian Literature
(C) Introduction to “Native American” culture through analytical appreciation of its oral and written literature. (3 cr. hr.)

EN 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.)

EN 258: Irish Women Writers
(C) Introduction to the work of Ireland’s women writers in all three genres: drama, poetry and fiction. Prerequisite: CPN 101 or 103, which may be taken concurrently. (3 cr. hr.)

EN 260: Literature of Sports
(O) Philosophical, psychological, sociological ideas and problems associated with growing emphasis on sport in modern life. (3 cr. hr.)

EN 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.)

EN 262: War in Literature
(O) Literary portrayal of war in Western literature from antiquity to present. (3 cr. hr.)

EN 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.)

EN 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.)

EN 280: Introduction to Mythology and the Bible
(O) Survey of major characters and events in classical mythology and the Bible. (3 cr. hr.)

EN 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, which may be taken concurrently. (3 cr. hr.)

EN 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.)

EN 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.)

EN 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.)

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
ENGL 305: Film Criticism
(A) 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.)

ENGL 306: Advanced Writing Workshop
(A) Advanced writing course focusing on genres of literary non-fiction, fiction, poetry, and modes of exposition and argument. Prerequisite: CPN 101 or 103. (3 cr. hr.)

ENGL 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.)

ENGL 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.)

ENGL 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.)

ENGL 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 ENGL 251. Also listed as AAS 352. (3 cr. hr.)

ENGL 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 ENGL 251. Also listed as AAS 353. (3 cr. hr.)

ENGL 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.)

ENGL 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: ENGL 355. (3 cr. hr.)

ENGL 373: Literature for Children
(A) Understanding, critical appreciation of books for elementary school pupils. (3 cr. hr.)

ENGL 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.)

ENGL 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.)

ENGL 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.)

ENGL 411: World Literature
(B) Survey of the writing of World literature from the beginning to the present day (3 cr. hr.)

ENGL 417: The Romantic Age in American Literature
(O) Such writers as Cooper, Poe, Hawthorne, Melville, Emerson, Thoreau and Whitman. (3 cr. hr.)

ENGL 418: Realism and Naturalism in American Literature
(O) From Civil War to Twenties. (3 cr. hr.)

ENGL 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.)

ENGL 420: Modern American Poetry
(O) Important poems from 1914 to present. (3 cr. hr.)

ENGL 421: African-American Autobiography
(O) Autobiographical narratives of Douglass, Washington, Hughes, Wright, Baldwin, Malcolm X, Moody, Angelou. (3 cr. hr.)

ENGL 422: American Women Writers
(O) Representative works, from the late 18th Century to the present. (3 cr. hr.)

ENGL 423: American Fiction Since 1940
(O) Important American prose writers from the forties to present. (3 cr. hr.)

ENGL 424: 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.)

ENGL 433: Shakespeare
(A) Dramatic effectiveness, structure, characterization, and poetry in selected group of Shakespeare plays. (3 cr. hr.)

ENGL 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.)

ENGL 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.)

ENGL 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.)

ENGL 442: Restoration and Eighteenth-Century Drama
(O) Drama written and performed in England from 1660 to 1800. (3 cr. hr.)

ENGL 445: The Victorian Age
(O) Major writers of Romantic period of England. (3 cr. hr.)

ENGL 446: The Victorian Age
(O) Selected works of Victorian writers studied in relation to intellectual movements of period. (3 cr. hr.)

ENGL 455: The English Novel to 1900
(O) From the beginnings to 1900. (3 cr. hr.)

ENGL 456: Modern Irish Drama
(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.)

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 = LAS
ENG 457: Modern Irish Fiction
(O) Representative works of selected modern Irish novelists and short-story writers — for example: Moore, O’Kelly, Stephens, Joyce, O’Connor, O’Faolain, Murdoch, Trevor. (3 cr. hr.) ■

ENG 458: Modern Irish Poetry
(O) Representative works of selected modern Irish poets, such as Yeats, Heaney, Boland, and McGuckian. (3 cr. hr.) ■

ENG 464: Modern Russian Literature 1860-1960
(O) Representative works in translation of selected Russian writers; novel, short story, drama; Tolstoy, Turgenev, Dostoevsky, Chekhov, Pasternak. (3 cr. hr.) ■

ENG 470: Modern British Poetry
(O) Poetry since 1890 written in England and Ireland. (3 cr. hr.) ■

ENG 471: The Modern English Novel
(O) Important English novels since 1900. (3 cr. hr.) ■

ENG 472: Modern Drama
(O) Important plays since 1875 written in America, England, Ireland and Europe. (3 cr. hr.) ■

ENG 475: American Multicultural Literature
(C) Close readings of representative texts by major 20th-century American writers of color. Prerequisite: Any 200-level English course. Also listed as AAS 470. (3 cr. hr.) ■

ENG 498: Independent Study
(O) Prerequisite: Approval of English Department Honors Committee. (3 cr. hr.)

ENG 499: Senior Thesis
(O) Prerequisites: Completion of at least three credits in honors studies, approval of English Department Honors Committee. (3 cr. hr.)

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

ENG 500: Old English
(O) Phonemic and grammatical structures of Old English; translation and analyses of selected West-Saxon tests; 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 literary movements in Irish literature, such as the Irish Renaissance. May be repeated as subtitle changes. (3 cr. hr.)

Related Education Courses

AED 308: Grammar and the Writing Process
(F) Engagement in the various stages of the writing process while determining the appropriate role of grammar in the language arts curriculum. Prerequisites: ENG 203, 2.75 grade point average, junior status. Corequisites: AED 309, 341. (3 cr. hr.) ■

AED 309: Participant-Observer Experience: Writing Process
(F) A 50-hour field experience, supervised by the course instructor. Prerequisites: ENG 203, 2.75 grade point average, junior status, Permission of the department. Corequisites: AED 308, 341. (3 cr. hr.)

AED 310: Grammar and the Writing Process
(A) Engagement in the various stages of the writing process while determining the appropriate role of grammar in the Language Arts Curriculum through readings and practice. Prerequisite: CPN 101 or 103; 2.75 grade point average for AEE majors; corequisite for AEE majors: AED 311. (3 cr. hr.) ■

AED 311: Participant-Observer Experience: Writing Process
(F) A 30-hour field experience supervised by the course instructor. Prerequisite: CPN 101 or 103; 2.75 grade point average; corequisite: AED 310. (1 cr. hr.)

AED 341: Introduction to English Language Arts
(F) This course brings together literature, composition, language and general material on teaching methods. Course goals include progress towards an integrated knowledge of constructivist learning theory, related teaching practices, and preparation for student teaching, as well as up-to-date approaches for working with ESL and special needs students in inclusive classrooms. Prerequisite: 2.75 grade point average in English. (3 cr. hr.)

AED 376: Student Teaching in English in the Middle School
(F) Supervised student teaching in a middle school. Prerequisites: AED 408, 409, 441; 2.75 grade point average. Corequisite: AED 377. S, U grades assigned. (6 cr. hr.)

AED 377: Student Teaching in English in the High School
(F) Supervised student teaching in the high school. Prerequisites: AED 408, 409, 441; 2.75 grade point average. Corequisite: AED 376. S, U grades assigned. (6 cr. hr.)

AED 385: Participant-Observer Experience
(F) Students will systematically observe the main components of the teaching and learning process in order to develop the reflective disposition needed to make wise instructional decisions, and to complete the 40 remaining hours of the pre-service fieldwork requirements. Corequisites: AED 386, 387. S, U grades are assigned. (1 cr. hr.)

AED 386: Student Teaching in English in the Middle Schools
(F) Supervised student teaching in the middle school. Corequisites: AED 385, 387. S, U grades are assigned. (7 cr. hr.)

AED 387: Student Teaching in English in the High School
(F) Supervised student teaching in the high school. Prerequisites: AED 441. Corequisites: AED 385, 386. S, U grades are assigned. (7 cr. hr.)
AED 404: Teaching Writing
(S) Instructional strategies, curriculum planning, and assessment techniques for the teaching of writing in middle and secondary schools. Three lectures, one two-hour laboratory/field experience. Prerequisite: AED 310, 311 and 341; Combined grade point average of 2.75 in adolescence education and English. (4 cr. hr.) ■

AED 408: Teaching Writing
(S) Instructional strategies, curriculum planning, and assessment techniques for the teaching of writing in the middle and secondary schools. Prerequisites: AED 308, 309 and 341; 2.75 grade point average. Corequisites: AED 409 and 441. (3 cr. hr.) ■

AED 409: Participant-Observer Experience: Teaching Writing
(S) A 50-hour field experience, supervised by the course instructor. Prerequisites: AED 308, 309 and 341; permission of the department. Co-requisites: AED 408 and 441. (3 cr. hr.) ■

AED 441: Methods of Teaching Literature and Critical Literacy
(S) Integration of the teaching of literature and critical literacy. Lesson planning, instructional strategies, and teaching with Educational standards are emphasized, as are theory and related strategies for helping students apply critical reading and writing skills to a range of literacy genres and levels of interpretation. Prerequisites: 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 practice techniques and strategies for making poetry a personal form of discourse. Prerequisite: ENG 203. ■

PWR 295: Revising and Editing
(B) Strategies for effective technical communication. Prerequisite: PWR 209. (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: PWR 101 or 103. (3 cr. hr.) ■

PWR 395: Revising and Editing
(B) Students will examine theories of revising and editing. In workshops students will learn strategies for revision, effective editing and proofreading. (3 cr. hr.) ■

PWR 398: Business Writing
(C) Principles of effective communication, focusing on how to choose appropriate organizational plans for a variety of messages, how to write from a “you” perspective and understand audience psychology, and how to format messages for effective visual impact. Prerequisite: CPN 101 or 103. (3 cr. hr.) ■

PWR 399: Rhetoric
(O) Provides fundamental theory about how writing exerts powerful influences on audiences. Students will explore the situations and purposes that writing serves and the voices and genres that historically have defined written texts. (3 cr. hr.) ■

PWR 409: The Evolution of Writing
(O) A study of writing practices and technologies as they shape and are shaped by culture. Topics include a history of writing practices and technologies and literacy and an examination of writing and rhetoric in the digital age. Prerequisite: PWR 295. (3 cr. hr.)

PWR 413: Contemporary Poetics
(C) Students respond to critical texts on poetic inspiration and creation working toward their own theory of the sources of poetry. Prerequisites: A 300-level writing course and a 400-level literature class. (3 cr. hr.) ■

PWR 415: Experiments in Creative Writing
(C) Students will, in a workshop setting, compose, share and critique cross-genre and experimental works—prose, poems, short stories, experimental texts and multimedia and performance works. Three lecture hours and a two-hour lab. Prerequisite: PWR 209. (4 cr. hr.)

PWR 495: Internship in Professional Writing
(O) Supervised experience in the professional work force in areas such as publishing, multi media, public relations, advertising and management. Prerequisites: 2.75 grade point average, computer literacy, nine credit hours of writing courses (300 level or higher), permission of English Department internship coordinator. (3-15 cr. hr.)

PWR 497: Senior Seminar in Professional Writing
(B) Students will produce a Senior Writer's Project that provides evidence of writing and editing skills through publication of a finished work and compile a portfolio of works. Prerequisite: Senior standing or permission of instructor. (3 cr. hr.) ■
Environmental and Outdoor Education

MINOR OFFERED
Environmental and Outdoor Education
Select one track
  Track A: Environmental Education and Interpretation
  Track B: Outdoor Pursuits
  Track C: Organized Camping Track

ENVIRONMENTAL CONCENTRATIONS OFFERED IN OTHER PROGRAMS

Environmental Health
  See requirements listed under health.
Environmental Management
  See requirements listed under economics.
Outdoor Recreation
  See requirements listed under recreation and leisure studies.
Pre-Environmental Science and Forestry
  See requirements listed under biological sciences.

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

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

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

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

Requirements for the Minor
A. Core – 11 credit hours from the following:
  BIO 307: Field Natural History or
  BIO 310: Field Biology
  BIO 102: Ecology and the Human Environment or
  BIO 412: General Ecology or
  GLY 160: Environmental Geology or
  EDU 462: Environmental and Outdoor Education
  Also listed as REC 462

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

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

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

CONCENTRATION

SCHOOL
Arts and Sciences

FACULTY
Chris Cirimo (Coordinator)

CONCENTRATION OFFERED
Environmental Science

DESCRIPTION
Environmental problems require solutions that draw from many academic areas. The environmental science concentration provides broad training in all of the sciences as well as in relevant social sciences. Students learn modern techniques for identifying and resolving environmental problems. All students complete an internship which provides them with an opportunity to work with environmental science professionals and to make career contacts with local, state and federal government agencies, industry, or private consulting firms. Majors in the biological sciences, chemistry, geology and physics departments may choose the environmental science concentration; requirements for the concentration are listed with each of these departments.

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

Environmental Studies

COURSE DESCRIPTIONS

EST 100: Introduction to Environmental Studies
(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
(3 cr. hr.)

INT 201: Adirondack Winter Studies
(2 cr. hr.)
Environmental Science

COURSE DESCRIPTIONS

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

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

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

ENS 487: Environmental Science Internship
(A) Project-oriented internship with a government agency, industry, other private or public enterprise, or faculty member. Supervised application of science knowledge and skills to an environmental issue, project or study. Prerequisites: junior or senior status in environmental science concentration, consent of environmental science coordinator. (3-12 cr. hr.) ■

Exercise Science and Sport Studies

DEPARTMENT

SCHOOL
Professional Studies

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

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

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

CONCENTRATIONS OFFERED
Coaching
Exercise Science
Sport Studies

MINORS OFFERED
Exercise Science
Sport Studies

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 38-48 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 Kinesiology – 75 credit hours
   B.S. in Kinesiology: Fitness – 75 credit hours

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

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

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

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

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

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

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

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

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

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

* Dual majors in biology may substitute BIO 324 for BIO 301 and BIO 314 for BIO 302.

C. Liberal Arts Electives: Five credit hours

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

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

E. Athletic Training: 34 credit hours
   ATR 101: Foundations of Athletic Training
   ATR 102: Basic Techniques in Athletic Training
   ATR 221: Athletic Training: Theory and Methods
   ATR 222: Recognition and Evaluation of Injury
   ATR 317: Acute Care of Injury and Illness
   ATR 318: Advanced Athletic Training
   ATR 319: Organization and Administration in Athletic Training
   ATR 342: Therapeutic Exercise
   ATR 343: Therapeutic Modalities
   ATR 360: Psycho-Social Intervention and Referral
   ATR 362: Advanced Conditioning and Rehabilitative Exercise
   ATR 223: Introduction to Clinical Skills
   ATR 323: Advanced Clinical Skills
   ATR 324: Applied Clinical Skills
   ATR 401: Pharmacology in Athletic Training
   ATR 423: Seminar in Athletic Training
   ATR 433: Field Experience in Athletic Training

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

G. Free Electives: 15 credit hours

Total Credit Hours Required for Graduation: 124
Major in Kinesiology [KIN]

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

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

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

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

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

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

A. General Education and Liberal Arts: 75 credit hours
   - CPN 100 or 102: Academic Writing I
   - CPN 101 or 103: Academic Writing II
   - PSY 101: General Psychology
   - BIO 301: Anatomy and Physiology I
   - BIO 302: Anatomy and Physiology II
   - CAP 100: Computer Applications
   - General Education Courses (28 cr. hr.)
   - Liberal Arts Electives (29 cr. hr.)

B. Kinesiology Theory Core: 21 credit hours
   - EXS 197: History and Philosophy of Physical Education +
   - EXS 287: Social Psychological Aspects of Physical Activity +
   - EXS 297: Motor Behavior +
   - EXS 351: Philosophy of Sport +
   - EXS 387: Biomechanics +
   - EXS 397: Exercise Physiology +
   - EXS 420: Sport in American Culture +

C. Concentration Requirements (must complete a concentration)
   - Sport Studies Concentration Requirements: 30 credit hours
     - ENG 260: Sport Literature +
     - EXS 345: Sport and Society +
     - EXS 346: Sport Psychology +
     - EXS 410: Sport Ethics +
     - EXS 445: Women and Sport
     - EXS 468: African American Sport History
   - Exercise Science Concentration Requirements: 24 credit hours
     - MAT 121: Calculus A +
     - CHE 221: General Chemistry I +
     - CHE 222: General Chemistry II +
     - PHY 201: Principles of Physics I + or
     - PHY 105: Elementary Mechanics and Heat +
     - PSY 201 or MAT 201 or COM 230: Statistical Methods or
     - ECO 221: Economic Statistics +
     - EXS 489: Exercise Science Research Methods
     - EXS 490: Independent Research in Exercise Science

   - Coaching Concentration Requirements: 39 credit hours
     - Category A. Required Core (28 credit hours)
       - ATR 421: Care and Prevention of Athletic Injuries
       - EXS 230: Foundations of Coaching: Principles and Theories
       - EXS 325: Principles of Strength and Conditioning
       - EXS 346: Exercise and Sport Psychology
       - EXS 410: Ethics in Sport
       - EXS 455: Philosophy, Principles and the Administration of Sport
       - HLH 120: Responding to Emergencies
       - PED 404-419: Coaching Clinic
       - PSY 333: Developmental Psychology
       - SPM 311: Legal Issues in Sport

     - Category B. Practica/Internship Requirements (8 credit hours)
       - EXS 260: Coaching Practicum I
       - EXS 360: Coaching Practicum II
       - EXS 475: Internship in Coaching

     - Category C. Required Workshops (non-credit)
       - CAR: Child Abuse Identification and Reporting
       - SAVE: School Violence Prevention Training

     - Category D. Concentration Elective (Choose at least three credit hours; students may also choose additional electives)
       - ATR 352: Strength and Conditioning for Athletes
       - EXS 357: Nutrition and Sports Performance
       - EXS 435: Neuromuscular Fitness Assessment and Programming
       - EXS 438: Cardio-Respiratory Fitness Assessment and Programming
       - EXS 450: Disability in Sport (also listed as SPM 450)
       - SPM 238: Sport Videography
       - SPM 335: Sports Information Technology
       - SPM 345: Sport in Society
D. Exercise Science, Sport Studies and Coaching Activity Requirements

Sport Studies Concentration Activity Requirements: Five credit hours
- PED 181: Adventure Activities
- PED 182: Health-Related Physical Fitness
- Aquatics activity elective
- Activity electives

Exercise Science Concentration Activity Requirements: Five credit hours
- PED 182: Health-Related Physical Fitness
- Aquatics activity elective
- Activity electives

Coaching Concentration Activity Requirements: Five credit hours
- PED 181: Adventure Activities
- PED 182: Health-Related Physical Fitness
- Aquatics activity elective
- Activity electives

E. Free Electives

<table>
<thead>
<tr>
<th>Sport Studies Concentration: 16 credit hours</th>
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<tbody>
<tr>
<td>Exercise Science Concentration: 27 credit hours</td>
</tr>
<tr>
<td>Coaching Concentration: 7 credit hours</td>
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</tbody>
</table>

\( + \) May count toward liberal arts credit hours.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Major in Kinesiology: Fitness Development [FIT]

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

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

A. General Education and Liberal Arts: 75 credit hours

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

B. Kinesiology Theory Core: 21 credit hours

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

C. Fitness Development Theory Requirements: 23 credit hours

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

D. Fitness Development Activity Requirements: Six credit hours

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

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

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

F. Free Electives: 1-10 credit hours

\( + \) May count toward liberal arts credit hours.

TOTAL CREDIT HOURS REQUIRED FOR GRADUATION: 124

Minor in Exercise Science [EXSC]

(For non-kinesiology majors only)

A. Required Courses

| EXS 297: Motor Behavior + |
| EXS 387: Biomechanics (Prerequisite: BIO 301 or 324) + |
| EXS 397: Exercise Physiology + |

(Prerequisite: BIO 301/302 or BIO 324/414)

| EXS 489: Exercise Science Research Methods |

(Prerequisite: MAT 201/PSY 201 or PED 434)

(Concurrent prerequisite: EXS 297, 387, 397)

| EXS 490: Independent Research in Exercise Science |

(Prerequisite: EXS 489)

| BIO 301/302: Anatomy and Physiology I and II + or |
| BIO 324/414: Mammalian Anatomy and Physiology + |
| CHE 221: General Chemistry I + |
| PHY 201: Principles of Physics I + (Corequisite: MAT 121) or |
| PHY 105: Elementary Mechanics, Heat and Matter + |
| PSY 201 or MAT 201 or COM 230: Statistical Methods + or |
| ECO 221: Economic Statistics + or |
| PED 434: Statistics and Assessment in Physical Education |
| MAT 121: Calculus A |

\( + \) May count toward liberal arts credit hours.

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 35
Minor in Sport Studies [SPST]  
(Not open to kinesiology majors)  

A. Required Sport Studies Core (12 credit hours)  
EXS 197: History and Philosophy of Physical Education  
EXS 287: Social Psychological Aspects of Physical Activity  
EXS 345: Sport and Society or  
EXS 346: Sport and Exercise Psychology (prerequisite: PSY 101)  
EXS 351: Philosophy of Sport or  
EXS 410: Ethics in Sport  

B. Required Sport Studies Electives (select six credit hours)  
EXS/POL 162: Soccer, Politics, Law and Culture  
EXS 350: Aesthetics of Sport  
EXS 420: Sport in American Culture  
EXS/WST 445: Women and Sport  
EXS/SPM 450: Sport and Disability  
EXS 468: African American Sport History  

C. Required Free Electives (select three credit hours)  
COM 360: Sport Broadcasting (prerequisite COM 100)  
ENG 260: Literature of Sport  
PWR 340: Writing Sports Literature  

TOTAL CREDIT HOURS REQUIRED FOR THE MINOR: 21  

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

First Year  
COR 101  
CPN 100 or 102  
CPN 101 or 103  
HLH 110  
PSY 101  
ATR 101  
ATR 102  
Two GE courses  
Foreign language  
Elective  

Total credit hours: 31  

Second Year  
Fall  
COR 101  
CPN 100 or 102  
HLH 110  
PSY 101  
ATR 101  
ATR 102  
Two GE courses  
Foreign language  
Elective  

Spring  
COR 101  
CPN 100 or 102  
HLH 110  
PSY 101  
ATR 101  
ATR 102  
Two GE courses  
Foreign language  
Elective  

Total credit hours: 31  

Third Year  
ATR 317  
ATR 318  
ATR 323  
ATR 324  
ATR 333  
ATR 334  
ATR 342  
ATR 360  
ATR 362  
EXS 346  
EXS 387  
EXS 397  

GE or liberal arts electives  
Approximate total credit hours: 31  

Fourth Year  
ATR 319  
ATR 401  
ATR 423  
ATR 433  
EXS 489  
HLH 323 or EXS 357  
GE electives  

GE or Quantitative Skills  
Approximate total credit hours: 31  

Exercise Science and Sport Studies  

Athletic Training  

ATR 101: Foundations of Athletic Training  
(S) Designed for entry-level students’ initial exposure to the athletic training profession. The course is intended to serve as an overview to the vast science of athletic health care using the CAAHEP educational model. (3 cr. hr.) ■  

ATR 102: Basic Techniques in Athletic Training  
(S) Introduction to clinical skills in athletic training that includes risk management, assessment, basic skills taping, bracing and rehabilitation techniques as they relate to sport injuries and illnesses. Includes 25 hours of directed clinical observation. Open to athletic training majors only. Prerequisite: ATR 101. (1 cr. hr.)  

ATR 129, 229, 329, 429, 529: Special Topics in Athletic Training  
Selected topics: May be taken more than once as subtitles change. Prerequisite: Designated by department as appropriate for content and academic level of credit. (1-3 cr. hr.)  

ATR 221: Athletic Training Theory and Methods  
(S) Basic theory and methods associated with prevention and management of common injury/illnesses sustained in the physically active individual. Required for students seeking admission into the Athletic Training Program. Prerequisite: BIO 301. (3 cr. hr.)  

ATR 222: Recognition and Evaluation of Injury  
(S) Recognition and evaluation of injury/illness common to the physically active individual. Students will learn techniques required to assess injury/illness for administering first aid and emergency care. Prerequisites: ATR 221, acceptance into the athletic training program. (3 cr. hr.)  

ATR 223: Introduction to Clinical Skills  
(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: Acceptance in the Athletic Training Program. (1 cr. hr.)  

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

ATR 317: Acute Care of Injury and Illness  
(S) The knowledge, skills and equipment used for the management and disposition of 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: Advanced Clinical Skills  
(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 318. (1 cr. hr.)

ATR 324: Applied Clinical Skills  
(S) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 323. (1 cr. hr.)

ATR 333: Field Experience in Athletic Training II  
(F) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. S, U grade assigned. Prerequisite: ATR 233. (1 cr. hr.)

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

ATR 342: Therapeutic Exercise  
(F) Investigation into principles, objectives, indications, contraindications and progression of various modes of conditioning and reconditioning exercises. Methods for evaluation, progress, and development of criteria for return to activity. Prerequisites: ATR 221, 222, acceptance into athletic training program, and consent of instructor. (3 cr. hr.)

ATR 343: Therapeutic Modalities  
(S) Normal physiological responses of human body to trauma, affects of trauma and inactivity on specific body tissues will be studied with implications for selection and use of therapeutic modalities. Prerequisite: ATR 221 and acceptance into the athletic training program. (4 cr. hr.)

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

ATR 360: Psycho-Social Intervention and Referral  
(S) Overview of the basic principles comprising the knowledge, skills and values that the entry-level certified athletic trainer should possess to recognize, intervene and refer when appropriate. Prerequisites: HLH 110 and EXS 287. (1 cr. hr.)

ATR 362: Advanced Conditioning and Rehabilitative Exercise  
(S) A study of the indications, contraindications, physiological effects, special exercise program, modes of resistance, methods of flexibility, and exercise prescription relating therapeutic rehabilitation and injury prevention exercises. Advanced theoretical and practical approach for the design of rehabilitation protocols and the use of advanced techniques. Prerequisite: ATR 342. (3 cr. hr.)

ATR 401: Pharmacology in Athletic Training  
(F) Basic principles of pharmacology comprising the knowledge, skills and values that the entry-level certified athletic trainer should possess. Examination of the indications, contraindications, precautions and interactions of drugs and medications as well as the governing regulations relevant to treating and caring for injuries and illness common in athletics. Open to athletic training majors only. Prerequisite ATR 318. (1 cr. hr.)

ATR 421: Care and Prevention of Athletic Injuries  
(S) Prevention, protection, first aid care of injuries occurring in athletics. Evaluation of protective devices, methods, diets, conditioning. Two lectures, one two-hour laboratory. Students provide own tape. Prerequisite: BIO 301. (3 cr. hr.)

ATR 423: Seminar in Athletic Training  
(F) This course will provide students with the opportunity to develop the specific athletic training clinical proficiencies that are outlined in the Athletic Training Education Competencies. In preparation of these skills, competence of subject matter will be verified through the teaching, practice and subsequent evaluation of outcomes documented over time. Prerequisite: ATR 324. (1 cr. hr.)

ATR 433: Field Experience in Athletic Training IV  
(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. 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. S, U grade assigned. (1 cr. hr.)

ATR 435: Field Experience in Athletic Training VI  
(S) The field experience will provide students with the opportunity to develop specific competencies in athletic training. Based on prerequisite requirements, this experience provides for a progressive development of technical skills and knowledge as part of an ongoing two-year field experience as required by the NATA. This experience partially fulfills the minimum field experience requirement. S, U grade assigned. (1 cr. hr.)

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
ATR 444: Laboratory Assistant in Athletic Training
(A) Student may assist with the lab portion of one of several athletic training classes. Responsibilities may include attending and assisting with a lab section, holding office hours, assisting with collecting research data and/or completing other tasks as assigned by the instructor. Students will enhance their knowledge and understanding of concepts covered in the associated theory course, learn additional lab techniques as well as gain valuable leadership experience. Prerequisite: Consent of instructor. May be repeated: no more than three credit hours toward graduation. (1-3 cr. hr.)

ATR 499: Special Study in Athletic Training
(A) Independent study/research on selected topics. Topics may include in-depth study of a particular subject area. Student will work with faculty member (project director) whose own special interests and expertise coincide most closely with chosen topic. Students must follow suggested guidelines available in department chair’s office. Prerequisite: Consent of department chair and instructor. May be repeated: no more than three credit hours toward graduation. (1-3 cr. hr.)

ATR 521: Contemporary Issues in Athletic Training
(O) Contemporary issues regarding the practice of athletic training will be investigated. Emphasis will be placed on the needs of coaches and athletic personnel who deal with athletes. Additional consideration also will be concerned with the prevention, risk management and the identification and treatment of sport-related injury and illness. (3 cr. hr.)

Exercise Science and Sport Studies

EXS 129, 229, 329, 429, 529: Special Topics in Exercise Science and Sport Studies
Selected topics: May be taken more than once as subtitles change. Prerequisite: Designated by department as appropriate for content and academic level of credit. (1-3 cr. hr.)

EXS 162: Soccer, Politics, Law and Culture
(C) This course examines the sociopolitical and cultural development of soccer. The connection between the world’s most popular sport, soccer, and international politics will be emphasized. Through critical political theory, the role and impact of the nation-state, the United States Soccer Federation (USSF), Federation Internationale de Football Association (FIFA), transnational corporations, race, gender and class will be discussed and analyzed from cross-cultural perspectives. Two field trips required for the course. Also listed as POL 162. (1 cr. hr.)

EXS 196: Field Experience in Fitness Development I
(A) Introductory practicum or field experience for students in the fitness development (FIT) major. Exposure to several experiences in the operation of a fitness facility with assistance in administering fitness assessments and participation in activities designed to introduce the operations of a fitness facility. S, U grades assigned. (1 cr. hr.)

EXS 197: History and Philosophy of Physical Education and Sport
(A) Devoted to study of physical education and sport and based on major historical events and associated philosophies that have shaped physical education and sport from ancient times to present. Examines basic concepts and current issues within physical education, play, cultural games and sports, athletics, fitness and wellness. Future trends explored. (3 cr. hr.)

EXS 229: Applied Sports Management
(A) Provides an understanding of the sport management field by considering the organizational components, human resource management, leadership issues, marketing, facility management, and event management. Emphasis is placed on operational and management issues within athletic departments. S, U grades assigned. (3 cr. hr.)

EXS 230: Foundations of Coaching: Principles and Theories
(B) The purpose of this course is to provide the prospective athletic coach with the basic underlying philosophies, theories and techniques for planning, organizing and managing athletic programs. In addition, knowledge of teaching skills and techniques that influence coaching effectiveness and improve performance will be emphasized. Not open to freshmen. (3 cr. hr.)

EXS 260: Coaching Practicum I
(B) Introductory coaching experience to provide students with the opportunity to apply the principles and practices of coaching a sports team. The student will actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. Not open to freshmen. S, U grades assigned. Prerequisite: Consent of department, completion of School Violence Prevention Training (SAVE), and Child Abuse Identification and Reporting (CAR). (1 cr. hr.)

EXS 287: Social Psychological Aspects of Physical Activity
(A) Introductory overview of social psychology as it relates to physical activity. Focus is on group and individualized behavior in play, sport, and dance. Not open to those having credit for PSY 422. (3 cr. hr.)

EXS 290: Social Problems and Issues in Sport and Exercise
(A) Examination of social problems and issues that impact upon a variety of physical activities. Consideration of how values, prejudice, discrimination and stereotypes affect sport and exercise in ways similar to society at large. Not open to students with credit for EXS 345. (3 cr. hr.)

EXS 296: Field Experience in Fitness Development II
(A) An intermediate field experience for the Fitness Development (FIT) major. Practical knowledge and hands-on experience by assisting with beginning through advanced resistance training and cardiovascular fitness programs. S, U grades assigned. Prerequisite EXS 196. (1 cr. hr.)

EXS 297: Motor Behavior
(A) Introductory course in motor behavior encompassing motor learning and motor development. Emphasis is on the application of principles which affect behavior, learning, and performance. (3 cr. hr.)

EXS 325: Principles of Strength and Conditioning
(F) Introduction to the concepts and applicable activities used in designing, implementing and evaluating strength and conditioning programs for athletic team populations. Prerequisite: BIO 301 and 302. Not open to students with credit for ATR 352 or EXS 435. (3 cr. hr.)

EXS 345: Sport and Society
(A) Role and influence of sports in our social system. Influence of other social systems upon sport. Not open to students with credit for EXS 290. (3 cr. hr.)

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

EXS 350: Aesthetics of Sport
(O) Visual survey of art and architecture encompassing motifs of athletics, sports, games, contest, dance, exercise, play, recreation. Aesthetic pleasure, interest in this professional cultural dimension emphasized. (3 cr. hr.)
EXS 351: Philosophy of Sport
(B) This course examines the methods of the philosophical process and its relationship to human movement. (3 cr. hr.) ■

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

EXS 360: Coaching Practicum II
(B) Intermediate coaching experience to provide students with the opportunity to apply the principles and practices of coaching a sports team. The student will actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. Not open to freshman or sophomore students. S, U grades assigned. Prerequisite: EXS 260 and HLH 120. (1 cr. hr.)

EXS 371: Pre-Internship Seminar in Fitness Development
(A) Development of career goals and various employment options in the fitness field. Preparation of a professional resume, techniques of interviewing and the development of two-person and small group interpersonal skills for securing a certain internship and subsequent professional position. Prerequisite: EXS 296. (1 cr. hr.)

EXS 387: Biomechanics
(A) Analysis, evaluation and application of anatomical and mechanical factors influencing motor skill activities. Prerequisite: BIO 301 or 324. Basic algebra skills expected. (3 cr. hr.) ■

EXS 397: Exercise Physiology I
(A) Physiological adjustments, changes occurring in human organism as a result of physical activity. Physiology of muscular contraction; role of circulatory and respiratory systems in exercise. Lectures, recitation, laboratory. Prerequisites: BIO 301, 302 or 324, 414. (3 cr. hr.) ■

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

EXS 420: Sport in American Culture
(A) Analysis and interpretation of changes in physical education and sport in the United States using the concepts of modernization, urbanization and industrialization, ontology, and religion to describe changes since 1600. (3 cr. hr.) ■

EXS 432: Exercise Prescription
(O) The design and supervision of appropriate prescriptive exercise programs for individuals from various fitness levels and medical conditions. Prerequisite: EXS 397. (3 cr. hr.)

EXS 433: Exercise Prescription Practicum
(O) Clinical experience in theory and practice of exercise prescription in physical fitness programs for adults. Prerequisites: EXS 397 and 432. S, U grades assigned. (1 cr. hr.)

EXS 435: Neuromuscular Fitness Assessment and Programming
(F) Basic understanding of muscle structure, function, and physiology as it applies to strength and power. Review types of strength training programs and techniques for developing goal-specific programs will be included. Lectures and laboratory. Prerequisite: EXS 397 or PED 397. (3 cr. hr.)

EXS 438: Cardio-Respiratory Fitness Assessment and Programming
(S) Integration of cardiorespiratory physiological concepts into the assessment of an individual’s aerobic capacity and the application of these data in designing an effective aerobic exercise program. American College of Sports Medicine (ACSM) guidelines will be followed. Lectures and laboratory. Prerequisite: EXS 397 or PED 397. (3 cr. hr.)

EXS 444: Laboratory Assistant in Exercise Science
(A) Student may assist with the lab portion of one of several exercise science theory classes. Responsibilities may include attending and assisting with a lab section, holding office hours, assisting with collecting research data and/or completing other tasks as assigned by the instructor. Students will enhance their knowledge and understanding of the concepts covered in the associated theory course, learn additional laboratory techniques as well as gain valuable leadership experience. (1-3 cr. hr.)

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

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

EXS 455: Philosophy, Principles and the Administration of Sport
(O) The principles of a sports organization including its policies, use of strategic processes, structures and methods of operations. Key applications of administrative skills regarding staff duties, use of facilities, instructional equipment and supplies will be considered. Practical issues related to coaching will be discussed. Prerequisite: EXS 230. (3 cr. hr.)

EXS 468: African-American Sport History
(O) This course examines the historical perspective of African-Americans in sport. Emphasis will be placed on the social, cultural, economic and political experiences of African-Americans in sport, beginning with the Nubian culture in Africa through colonial America, slavery, the “Jim Crow” era of legal segregation, World War II and integration, the Civil Rights Movement, and the late 20th century. (3 cr. hr.) ■

EXS 470: Field Experience in Fitness Development III
(A) Experience in the operation of the fitness facilities and the promotion of wellness themes through the Tomik Fitness Facility. S, U grades assigned. Prerequisite: EXS 438 or PED 438. (2 cr. hr.)

EXS 471: Internship in Fitness Development
(A) A full-time supervised internship in a fitness field that relates to the student’s area of interest. Typical internships may include strength and conditioning, personal training or work in a fitness facility. Prerequisites: EXS 371 and 470. (9-15 cr. hr.)
EXS 475: Internship in Coaching  
(A) Supervised internship in a culminating coaching experience in a scholastic, collegiate, professional or an international level program. Prerequisites: EXS 360, senior status, good academic standing, consent of department. S, U grades assigned. (6 cr. hr.)

EXS 480: Exercise Science Research Methods  
(F) Purpose of course is to provide students with integrated background in exercise science and to prepare them for research testing in procedures commonly found in exercise science research. Students introduced to current trends and research topics coupled with laboratory techniques in areas of motor behavior, biomechanics and exercise physiology. Two-hour laboratory session each week gives students hands-on experiences with computers and equipment. Prerequisites: PED 434 or MAT 201 or PSY 201 or ECO 221 or COM 230 and EXS 297, 387 and 397. (3 cr. hr.)

EXS 490: Independent Research in Exercise Science  
(S) Independent research project for the exercise science concentration or minor. Student will undertake and complete a research project in the area of exercise science. The project will include collecting and analyzing data and presenting the results in writing and in a formal oral presentation. Prerequisite: EXS 489. (3 cr. hr.)

EXS 499: Special Study in Exercise Science  
(A) Independent study/research on selected topics. Topics may include in-depth study of a particular subject area. Student will work with faculty member (project director) whose own special interests and expertise coincide most closely with chosen topic. Students must follow suggested guidelines available in department chair's office. Prerequisite: Consent of chair. (1-3 cr. hr.)

EXS 511: Advanced Statistical Applications in Exercise Science  
(C) Advanced statistics with application in exercise science. Content includes a review of basic descriptive and inferential statistics, plus coverage of multiple-factor and repeated measures ANOVA, post-hoc tests, multivariate analysis of variance, analysis of covariance, multiple regression, canonical analysis and factor analysis. Computerized statistical analyses are imbedded throughout the course. Prerequisites: MAT 201 or PSY 201 or COM 230 or ECO 221 or HLH 299 or PED 434 or equivalent. (3 cr. hr.)

EXS 522: Sport in Contemporary Society  
(O) Study of sport from social perspective, investigating the interrelationship of sport to other institutions. Course offers opportunity for critical review of literature in area of sport in society. (3 cr. hr.)

EXS 535: Neuromuscular Fitness Assessment and Programming  
(F) Basic understanding of muscle structure, function, and physiology as it applies to strength and power. Review of types of strength training programs and techniques for developing goalspecific programs will be included. Lectures and laboratory. Not open to students with credit for EXS 435. (3 cr. hr.)

EXS 538: Cardio-Respiratory Fitness Assessment and Programming  
(S) Integration of cardiorespiratory physiological concepts into the assessment of an individual's aerobic capacity and the application of these data in designing an effective aerobic exercise program. ACSM guidelines will be followed. Lectures and laboratory. Not open to students with credit for EXS 438. (3 cr. hr.)

EXS 546: Behavior in Sport  
(O) Study psychological factors which influence behavior of men and women as they participate in physical activity and sport. (3 cr. hr.)

EXS 551: Philosophy of Sports and Physical Education  
(O) Background, development of modern physical education; formulation of scientific principles which foster biological, sociological, and psychological benefits of physical education. (3 cr. hr.)

EXS 555: Physiology of Exercise II  
(O) Physiological adaptations, mechanisms of change of function taking place as result of physical exercise. Physiological factors influencing human performance; environmental factors of altitude, space, temperature extremes; drugs and doping; age and gender; related problems in sport medicine. Prior knowledge of exercise physiology is expected. (3 cr. hr.)

EXS 558: Physiological Principles of Conditioning for Sports  
(O) Application of physiological principles to development of specific conditioning components. Analysis of research implications and critical evaluation of current practices emphasized. Prerequisite: EXS 397. (3 cr. hr.)

EXS 565: Perceptual Motor Development  
(O) Developmental processes from prenatal period to adolescence, with emphasis for elementary physical education. (3 cr. hr.)

EXS 575: Nutritional Aspects of Physical Fitness and Athletic Performance  
(O) Application of metabolic and nutritional principles to performance patterns of athletes and individuals desiring to increase their physical fitness capacity. Includes role of carbohydrates, fats, proteins, vitamins, minerals, and water in exercise. Effects of dietary manipulation, fad diets, body composition, and ergogenic aids will be investigated. Prerequisite: EXS 397 or consent of instructor. (3 cr. hr.)

EXS 587: Advanced Biomechanics  
(O) Application of fundamental laws of physics. Techniques of physical activities, sports in terms of mechanical principles. Available research reviewed. Prior knowledge of biomechanics is expected. (3 cr. hr.)

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