



**undergraduate catalog
2002-2003**

www.newpaltz.edu/ugc

School of Business

Hadi Salavitabar, Dean

Business Administration

Phone: (845) 257-2930

Location: School of Business Building on the Southside Loop, Room 107

Web address: www.newpaltz.edu/schoolofbusiness

Admission to Major

Acceptance as a major in business administration or accounting is based on overall academic performance and on performance in selected courses. Details of admissions criteria may be obtained from the Office of the School of Business. All business administration and accounting students must complete college algebra before they can achieve major status.

Business Administration Majors

Accounting	63 credits
Finance	57 credits
General Business	60 credits
International Business	57 credits+FLP
Management	57 credits
Marketing	60 credits

Business Administration Core Curriculum.....39 credits

33206	Introduction to Microeconomics (3)
33207	Introduction to Macroeconomics (3)
20201	Financial Accounting (3)
20202	Managerial Accounting (3)
20215	Business Decision Support Systems (3)
20250	Principles of Management (3)
20271	Legal Environment of Business (3)
20309	Statistics for Business and Economics I (3)
20311	Statistics for Business and Economics II (3)
20312	Operations Management (3)
20325	Marketing (3)
20341	Fundamentals of Corporate Finance (3)
20450	Strategic Management (3)

Total Credits in Core.....39 credits

Accounting

Required courses.....24 credits

20272	Business Law for Accounting (3)
20368	Intermediate Accounting I (3)
20369	Intermediate Accounting II (3)
20371	Concepts in Federal Taxation (3)
20373	Cost Accounting (3)

- 20375 Auditing (3)
- 20441 Financial Management and Policy (3)
- 20442 Advanced Accounting (3)

Total Required Credits in Accounting: Core (39) + Major (24).....63 credits

Finance

Required Courses.....18 credits

- 20441 Financial Management and Policy (3)
- 20443 Investment Analysis and Portfolio Management (3)
- 20445 International Financial Management (3)
- 20447 Personal Financial Planning (3)
- 33303 Money and Banking (3)

One of following (Upper Division Accounting Elective):

- 20368 Intermediate Accounting I (3)
- 20371 Tax Accounting I (3)
- 20373 Cost Accounting (3)

Total Required Credits in Finance: Core (39) + Major (18).....57 credits

General Business

Required Courses.....21 credits

One upper division course must be taken from each of the following areas:

- Finance (3)
- International Business (3)
- Management (3)
- Marketing (3)
- Three elective courses (9 credits): Students may select electives from the above-mentioned areas (assuming s/he has not taken that particular course to satisfy some other requirement) or from the following four categories (assuming s/he meets all prerequisite requirements).
 - Accounting
 - One upper division Economics
 - Independent Study: Students may contact faculty in the School of Business to undertake independent study.
 - Internship: Students may contact their advisors in the School to arrange for an internship and the number of credits applied.

Total Required Credits in General Business: Core (39) + Major (21).....60 credits

International Business

Required Courses.....18 credits + FLP

- 20346 International Business (3)
- International Relations (3)
- Two Area Study Electives: Students should consult their advisors on selection of courses in this area. (6)
- Two upper division Business courses in a given concentration (6)

Foreign Language Proficiency (FLP) at the intermediate level. The equivalent of elementary and intermediate courses in one language must be completed. This requirement is the equivalent of two years (four semesters) of language courses. In other words, it is one year of

language in addition to the language requirement of the General Education Program. [FLP (0-12)]

Total Required Credits in International Business: Core (39) + Major (18).....57 credits + FLP

Management

Required Courses.....18 credits

- 20321 Organizational Behavior (3)
- 20322 Organization Theory (3)
- 20345 Human Resource Management (3)
- 20346 International Business (3)
- 20355 Motivation and Work Behavior (3)
- 20455 Workplace Aggression and Counterproductive Behavior (3)

Total Required Credits in Management: Core (39) + Major (18).....57 credits

Marketing

Required Courses.....21 credits

- 20326 Consumer Behavior (3)
- 20327 Sales Management (3)
- 20346 International Business (3)
- 20360 Electronic Commerce (3)
- 20425 Marketing Research (3)
- 20427 Advertising Strategy (3)
- 20429 Marketing Strategy (3)

Total Required Credits in Marketing: Core (39) + Major (21).....60 credits

Minor in Business Administration

21 credits

Students majoring in a discipline other than accounting or business can Minor in Business Administration by taking the following courses:

- 33206 Introduction to Microeconomics (3)
- 33207 Introduction to Macroeconomics (3)
- 20201 Financial Accounting (3)
- 20202 Managerial Accounting (3)
- 20250 Principles of Management (3)
- 20309 Statistics for Business and Economics I (3)

One of the following:

- 20325 Marketing (3)
- 20341 Fundamentals of Corporate Finance (3)

Double Major

An undergraduate student may choose to have two major concentrations by meeting the following requirements:

- The core courses apply to both concentrations.
- Students must take all "Major Required Courses" for both concentrations. If there is an overlap in this category between the two concentrations, then the common course(s) will apply to both concentrations.

- If a course is required for one concentration and an elective for the second concentration, then that course should be counted toward the concentration that requires the course(s).
- If there are not enough courses in the list of electives for either of the concentrations, students should see their advisor or the Dean.
- Students will receive one degree with the names of the two concentrations on the transcript.

Liberal Arts Designation:

The following business courses carry a liberal arts (LA) designation: 20215, 20250, 20271, 20272, 20309, 20311, 20321, 20322, 20326, 20355, 20441, 20447 and 20544. However, Accounting majors may **NOT** use any business course (20XXX) toward their liberal arts requirement. Accounting students should see their advisor for an analysis of their LA courses.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Academic Handbook.

20201 Financial Accounting (3)

An introduction to basic accounting principles for measuring and communicating financial data about a business enterprise to external parties. Prerequisite: C- in 64050 or Math Proficiency Level 3.

20202 Managerial Accounting (3)

Introduction to measuring and communicating the financial information needed to manage an organization. Introduction to spreadsheet programming, using basic managerial accounting concepts. Topics include job order and standard costing systems, cost behavior and estimation, cost-volume-profit analysis, budgeting and short-term decision making. Prerequisite: 20201 with a grade of C- or better.

20215 Business Decision Support Systems (3)

Development of computer-based Business Decision Support Systems, emphasizing specific mathematical and database models widely employed in business, including time value of money, optimization and statistical analysis. Development of research, communication and presentation skills required to reach decisions and convey them to others.

20250 Principles of Management (3)

The formation, direction, and operation of business enterprise in a competitive economy, entrepreneurial choices of legal form, function structure, and managerial method.

20271 Legal Environment of Business (3)

Introduction to the American legal systems, business organizations, agency, business torts, contracts and warranties, property, securities, environmental law, employment/labor law, government regulation of business and markets. Alternative methods of dispute resolution will also be addressed.

20272 Business Law for Accountants (3)

Advanced business organizations, securities, mergers and acquisitions, bankruptcy and UCC, trusts, estates and probates, law of administrative agencies, professional responsibility of accountants, dealing with primary source materials. Prerequisite: 20271 with a grade of C- or better.

20281 Voluntary Income Tax Assistance (VITA) (1)

Students prepare simplified income tax returns as a service to the college and local communities. The tax returns are limited to 1040-EZ, 1040A, and 1040. Students will prepare both the federal and New York State returns. Prerequisite: PI and 20201.

20309 Statistics for Business and Economics I (3)

Statistical analysis of economic and business problems with emphasis on statistical inference. Rigorous treatment of probability theory and probability and sampling distributions. Estimation and hypothesis testing of (population) parameters are emphasized. Prerequisite: C- in 64152 or Math Proficiency Level 4.

20310 Introduction to Management Science (3)

Introduction to quantitative methods used in business decision-making. Both deterministic and probabilistic models are introduced. Topics include linear programming, sensitivity analysis, inventory and queuing theory, and Markov analysis. Prerequisite: 20309 with a grade of C- or better.

20311 Statistics for Business and Economics II (3)

Statistical methods applied to economic and business decisions. Topics include hypothesis testing, analysis of variance, regression and correlation analysis, time-series analysis and forecasting, and non-parametric statistics. Prerequisite: 20309 with a grade of C- or better.

20312 Operations Management (3)

This course takes a systems approach to the management of the operations with an emphasis on the role of operations in determining the global competitiveness of organizations. Analytical tools and strategic issues of operations management are presented. Topics include: forecasting, operations aspects of product/process design, location analysis, capacity planning, layout strategies, assembly-line balancing, JIT, inventory modeling, MRP, and quality management. Prerequisite: 20309 with a grade of C- or better.

20321 Organizational Behavior (3)

Introductory analysis of human behavior in large and complex organizations and the impact of organizations on human interrelationships. Skills and strategies in organizational development and change, such as leadership, influence and control systems, group dynamics, and personal/organizational goals. Students may not take both this course and 80315 for credit.

20322 Organization Theory (3)

Introductory survey and analysis of major theories dealing with organizational characteristics and processes. The relationship between theories and supporting empirical evidence. Current issues in organization theory, decision-making, the organizational environment, and the changing nature of organization in contemporary society.

20325 Marketing (3)

The operation of the distribution system for goods and services. Techniques of market analysis. Prerequisite: C- in 33206; pre/co-requisite: 33207.

20326 Consumer Behavior (3)

Various aspects of consumer behavior. Topics include motivation, attitudes, shopping behavior, influences on normal behavior. Models of consumer behavior and their relationship to marketing management. Prerequisite: 20325 with a grade of C- or better.

20327 Sales Management (3)

Elements of the sales function. Concentration on selling activities that include sales demonstrations and special selling presentations. Introduction to sales management functions, including organizing, recruiting, training, supervising, compensating and motivating of the sales force. Prerequisite: 20325 with a grade of C- or better.

20341 Fundamentals of Corporate Finance (3)

Fundamentals of finance and their application to typical financial problems of business enterprises. Emphasis on financial analysis and forecasting, time-value of money, risk and return, security valuation, and working capital management. Prerequisite: 33207 and 20201 with a grade of C- or better, and 20309 pre/co-requisite.

20345 Human Resource Management (3)

Terminology, principles, and concepts used by the personnel function in medium and large business and non-business organizations to select, train, motivate, compensate, and appraise both managers and non-managers from the perspective of human behavior in a work environment.

20346 International Business (3)

This is a course designed to introduce students to international business and the role of multinational corporations in today's global economy. We shall seek to understand international business issues that have to be addressed by business corporations when they operate across countries. The course focuses on international business theory, environment, institutions, role of the nation state, culture, strategy, and operations. Prerequisite: 20250, 33206, and 33207.

20350 Collective Bargaining (3)

An examination of the contractual relationship between labor and management and how the contracts are arrived at. The forces affecting the outcome of negotiations and the factors affecting the parties are examined. Attention to both the private and public sectors. An evolution of the overall impact of collective bargaining and the legal environment.

20355 Motivation and Work Behavior (3)

The purpose of this course is to provide students with exposure to the theoretical and applied aspects of motivation and related work behaviors. Major topics include role of motivation in organizations, person in motivation, environment in motivation, social influences, job attitude and performance, worker emotion and performance, communications, reward systems and motivation. Prerequisite: 20250 with a grade of C- or better.

20360 Electronic Commerce (3)

This course examines two intimately related issues -- development and impact of electronic commerce on businesses and use of interactive (electronic) marketing -- from a managerial viewpoint. Students will get an overview of what electronic commerce is all about, including history and development of e-commerce, business uses and technology directions of the Internet and management issues facing businesses trying to use the WWW. Prerequisite: 20215 and 20325.

20368 Intermediate Accounting I (3)

Overview of the accounting system, financial statements, and the conceptual framework. In depth discussion of accounting for cash, receivables, inventory, plant and equipment, and intangible assets. Prerequisite: 20202 (or 6 credits in accounting principles).

20369 Intermediate Accounting II (3)

Practical and theoretical issues involved in accounting for investments, current liabilities, non-current liabilities, shareholders' equity and instruments with both debt and equity characteristics. Prerequisite: 20368 with a grade of C- or better and 20341 pre/co-requisite. Math Level 4.

20371 Concepts in Federal Income Taxation (3)

This course focuses on the enduring principles underlying the U.S. federal income tax system with emphasis on income taxation of individual and some coverage of taxation of corporations and partnerships. The development of analytical, communication, and tax research skills is emphasized. Prerequisite: 20202 with a grade of C- or better.

20372 Tax Accounting II (3)

Continues the study of the federal income tax laws with an emphasis on the special problems of corporations and partnerships. Prerequisite: 20371 with a grade of C- or better, and Math Level 4.

20373 Cost Accounting (3)

Cost accumulation and control, job order and process cost systems, standard costs and variance analysis, techniques for management decision making. Prerequisite: 20202 with a grade of C- or better.

20375 Auditing (3)

This course introduces the attest function and the independent auditor's role in society and provides students with a basic knowledge of auditing theory and practice. Fundamental audit concepts including materiality, risk, internal control evaluation, and audit evidence are discussed, as are audit tools including systems flowcharting, statistical sampling, audit working papers, and computer application in auditing. Auditing problems associated with computerized accounting systems are discussed. Prerequisite: 20369.

20425 Marketing Research (3)

A statistically oriented course in the process and problems of research in marketing decision-making. Emphasis on survey methodology, questionnaire design, sample selection, fieldwork, tabulation, statistical analysis of data and report writing. All phases, from problem definition to presentation, are examined. Prerequisite: 20309, 20325 with a grade of C- or better, and 20311 pre/co-requisite.

20427 Advertising Strategy (3)

Development and implementation of advertising and promotion programs. Topics include advertising's role in the marketing mix, its relationship with other promotion tools, target audience selection, budgeting, creative strategy, media planning, measuring communication effectiveness, and legal/ethical issues. Prerequisite: 20325.

20429 Marketing Strategy (3)

The course covers the process of strategic marketing planning including the identification or establishment of organizational mission and goals, corporate strategy, marketing goals and objectives, marketing strategy and finally, a marketing plan. The emphasis in the course is on the process and concepts necessary to develop a customer-oriented marketing strategy and marketing plan. Prerequisite: 20325 with a grade of C- or better. Math Level 4.

20439 Direct Marketing (3)

A comprehensive description of the key issues and applications in direct marketing needed to improve sales and understand customers. The topics covered are introduction to direct marketing and database marketing, success factors in segmentation, modeling, and targeting, estimating and applying customer lifetime value, geodemographic applications, and cluster analysis. Prerequisite: 20325.

20441 Financial Management and Policy (3)

Capital budgeting, cost of capital, breakeven/leverage analysis, long-term financing, preferred stock, common stock and dividend policy, leasing evaluations, expansion, and failure. Prerequisite: 20202 and 20341 with a grade of C- or better.

20442 Advanced Accounting (3)

Accounting for business combinations, consolidated entities, partnerships, governmental and not-for-profit organizations. Prerequisite: 20369 with a grade of C- or better.

20443 Investment Analysis and Portfolio Management (3)

Principles of securities market investment, the formulation of investment policies for individuals and institutions, modern theories of portfolio selection and capital markets, integrated with traditional valuation theory and analysis. Prerequisite: 20202 and 20341 with a grade of C- or better.

20445 International Financial Management (3)

International financial markets, exchange rate behavior and risk management, international banking, multinational financial management, comparing short-term and long-term asset and liability management, and multinational strategic planning. Prerequisite: 20341 with a grade of C- or better.

20447 Personal Financial Planning (3)

This course is designed to present students with the diverse tools of finance that are specifically targeted to become intelligent consumers of financial services. The topics are fundamentals of finance, insurance, taxes, retirement planning, debt management, housing, and estate planning. The emphasis will be on real world application and experience. Prerequisite: 20341.

20450 Strategic Management (3)

The senior seminar course which integrates the functional areas of finance, management, and marketing by pursuing extensive case and problem analysis dealing with models of strategic management. Prerequisite: PC, senior status, 20341 with a grade of C- or better.

20451 Accounting Theory (3)

Advanced topics in financial reporting, including accounting for leases, pensions, deferred taxes, pensions and other post-retirement benefits, and multinational operations. Other topics include cash flow statement and accounting changes and error corrections. Prerequisite: 20369 with a grade of C- or better and senior accounting major.

20455 Workplace Aggression and Counterproductive Behavior (3) The purpose of this course is to expose students to current research on workplace aggression and counterproductive work behaviors. We will examine the underlying causes of these behaviors as well as techniques for their management and prevention. Major topics include aggression, violence, and employee deviance, models of workplace aggression and research methodologies, organizational costs associated with counterproductive behavior, and models for prevention and management of workplace aggression and counterproductive behavior. Prerequisite: 20321 with a grade of C-or better.

20485 Legislative Gazette Business Internship (9)

A real world case practice in the management of all aspects of a small business -- a weekly newspaper. Students will be called upon not only to perform management functions, such as sales, systems development, and accounting, but will see how their previous academic experience is applicable to running a business. Major concentrations of effort will be in marketing, accounting, physical delivery systems and newspaper production. Prerequisite: PC.

School of Education

Robert Michael, Dean
Richard Reif, Associate Dean

Phone: (845) 257-2800

Location: School of Education, Old Main Building

Web address: www.newpaltz.edu/schoolofed

CONCEPTUAL FRAMEWORK

CARING, CRITICAL, AND REFLECTIVE PROFESSIONALS RESPONSIVE TO THE NEEDS OF A DIVERSE SOCIETY

The School of Education is committed to the preparation of caring, critical, and reflective professionals who are academically strong, pedagogically skilled, and responsive to the needs of our diverse society. We strive to prepare teachers and school administrators who create classroom and school communities where all students learn in meaningful ways. Our work is grounded in these values and commitments, which we strive to nurture in ourselves as in our students:

- Inquiry
- Intellectual growth
- Professionalism
- Appreciation of human diversity
- Advocacy for students
- Democratic citizenship

The SUNY New Paltz pass rates for the New York State Teacher Certification Examinations, program year 2000-2001, are as follows:

Liberal Arts and Sciences Test (LAST)	97%
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Assessment of Teaching Skills – Written (ATS-W)	97%
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Education-Interdisciplinary

Course

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See “Academic Policies and Procedures” in the Student Advising Handbook.

34300 Introduction to Bilingual-Bicultural Education (3)

Introduction to the interdisciplinary bilingual-bicultural training program for teachers of Spanish-speaking children: history, goals, models, principles, rationale, and materials. Current issues and effects of bilingual-bicultural education.

Educational Studies

Phone: (845) 257-2830/31

Location: Old Main Building Room 112

Web address: www.newpaltz.edu/edstudies

Liberal Arts Designation:

All undergraduate courses may be counted toward the undergraduate liberal arts requirement except 38494. Social and Philosophical Foundations of Education (38340) fulfills the U.S. Studies requirement of G.E. II. Designated sections of 38340 also fulfill the Writing Intensive requirement. The following graduate level courses may be taken by seniors and be counted toward the undergraduate liberal arts requirement: 38501, 38503, 38548, 38581.

Courses:

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See “Academic Policies and Procedures” in the Student Advising Handbook.

38340 Sociological and Philosophical Foundations of Education (3)

Explores the social/cultural, philosophical, political, and historical context of schooling in the United States. Issues of social difference in education (such as class, race/ethnicity, gender, language, and ability/disability) are addressed as well as values as they arise in relationships among schools, teachers, students, and communities, in school policies and practices, and in broader educational reform initiatives. Designed for those seeking certification to teach and for others interested in the study of education as a social practice. (Required for teaching certificate.) Prerequisite: Matriculated status or PC.

38351 Education of Self (3)

Structured learning experience in which students identify and process their basic concerns of identity, connectedness, and power. Activities help students clarify their behavior patterns and increase their range of choices personally and interpersonally.

38365 Psychology of Human Learning (3)

This course examines theories of learning and development and how they speak to the lives of individual learners with diverse needs. While the process of learning is defined broadly, the focus for the course is on learning and schooling. Relationships between theory and practice, psyche and culture, classroom and society are considered.

38371 Child Psychology and Development (3)

Considers theoretical positions regarding growth, learning and personality development as they relate to the education of children. Examines general characteristics and individual differences of the infant and preschool child and the school-age child up to adolescence. Includes child observation and discussion of such factors as sex, role, ethnic and linguistic differences, handicapping conditions and abuse and neglect. (Required for elementary teaching certificate.) Prerequisite: Matriculated status or PC.

38372 The Developing Adolescent (3)

Explores the relationship between the physical, emotional, cognitive and social areas of adolescent development. Considers issues of inclusion such as multi-culturalism, special needs and gender issues. Designed for prospective teacher and others who may work with adolescents. (Required for 7-12 certification.) Prerequisite: Matriculated status or PC.

38373 Education from a Global Perspective (3)

Introduction to the study of comparative education. Examines the educational process in a variety of countries. Topics include the social context, role of the teacher, goals of education, nature of the curriculum, and organization, control and financing of the system. Designed for those planning careers as teachers and for those interested in the study of education as a social process (38340 or 38373 required for teaching certificate).

38383 Introduction to Literacy for Diverse Learners (3)

The course introduces the sociocultural, moral, political, historical, and developmental dimensions of literacy. Students consider how classroom practices for secondary students relate to theories of learning, to first- and second-language acquisition, and to literacy development. The course presents a broad view of literacy as a form of communication.

38431 Educational Anthropology (3)

Introduction to the universals of learning as a cultural process through application of concepts, theories, and models of anthropology in learning situations in schools and other institutions in which culture is transmitted and changed. Specific case studies of education and culture in several global regions. Prerequisite: PI.

38452 Sex-Stereotyping in Education (3)

Effects of sex-role stereotyping on learning and achievement. Sex-role development as influenced by educational institutions, teachers, curriculum, and educational materials.

38483 Advanced Child Psychology (3)

Develops teacher sensitivity to the atypical school child and to unusual types of behavior in the classroom that may need special school services and interpretation to parents. Prerequisite: 38371.

Special Education

The following courses may be counted toward the liberal arts requirement: 39502, 39560, 39595.

39301 Mainstreaming/Inclusion of Students with Disabilities (3)

Integrating and educating students with disabilities in elementary and secondary classrooms.

Prerequisite: 39210.

39310 Psychology of Learners with Disabilities (3)

An understanding of learners with disabilities and learners who are gifted and talented with emphasis on the educational needs of learners with special needs. Prerequisite: 38371, 38372, or PI.

39311 Diagnostic Assessment in Special Education (3)

An overview of diagnostic and assessment procedures used in special education and the development of prescriptions based on this information. Prerequisite: 39210.

39313 Methods and Materials in Special Education (3)

An overview of methods and materials used in special education. Emphasis on classroom strategies and the selection and preparation of materials. Prerequisite: 39210.

39350 Creating Inclusive Elementary School Classrooms (3)

This course examines the foundations and fundamentals of inclusive educational programs and the challenges of their implementation in elementary schools. It also provides strategies for creating inclusive classrooms that support learning for all students.

39385 Differentiating Instruction in the Secondary School (3)

This course will assist teachers in designating classroom, instructional, and school environments to accommodate the full range of learners in the general secondary education setting. Strategies for teaching students who are gifted, disabled, and English language learners will be included. Prerequisite: Declared major in Secondary Education.

Inclusion Program

Office: Undergraduate Advisement

Phone: (845) 257-2807

Location: Old Main Building Room 105

Web address: www.newpaltz.edu/elementaryed/lem_ed_inclusion.html

For Program Information, Contact:

Inclusion Program Coordinator

Department of Elementary Education

SUNY New Paltz

75 South Manheim Blvd., OMB 203-B

New Paltz, NY 12561

(845) 257-2849

For Admission Information, Contact

Office of Elementary Education Undergraduate Advising

Department of Elementary Education

SUNY New Paltz

75 South Manheim Blvd., OMB 105

New Paltz, NY 12561

(845) 257-2807

Entrance to the Inclusion Program:

Candidates for the Inclusion Program must apply for entrance into the program by the end of their sophomore year. The basic requirements for entrance are:

- An overall grade point average of 2.75 or better.
- Complete the program application, including a writing sample.
- Provide at least three references; one of which must be from a person familiar with the applicant's academic performance.
- Participate in an interview.
- Be a matriculated 1-6 Childhood/LA major.

Inclusion Program Overview:

The Inclusion Program offers instruction in:

- foundations of education;
- developmentally appropriate practice;
- subject area pedagogy in the elementary schools;
- appropriate instructional practices in special education including assessment, collaboration, and research.

Along with course work offered on campus, multiple field experiences and two student teaching practicum experiences will give students a broad base of experience and knowledge from which to draw as teachers.

As students seeking elementary certification, in addition to special education certification, the student will be required to complete the requirements for one of the New York State and SUNY New Paltz approved academic majors. Those majors include: Art History, Biology, Black Studies, Earth Science, English, French, Geography, History, Mathematics, Political Science, Spanish, and Women's Studies.

Beginning in the fourth year, and continuing through the summer and into the fifth year, students in this program will be engaged in graduate-level course work leading to a Master of Science in Education degree (Special Education Certification). During the fifth year, students also will engage in two field practicum experiences.

Students in the Inclusion Program complete an extensive preparation in the area of childhood education. The pedagogical core focuses on developing comprehensive knowledge, understanding, and skills for teaching students with mild, moderate, severe, and multiple disabilities at the student developmental level of the certificate and include, but need not be limited to, study in the following:

1. Historical, social, and legal foundations of special education, employment and independence for individuals with disabilities;
2. Characteristics of learners with disabilities;
3. Managing behavior of students with disabilities and promoting development of positive social interaction skills;
4. Participating in collaborative partnerships for the benefit of students with disabilities, including family strengthening partnerships;
5. Assessment, diagnosis, and evaluation of students with disabilities;
6. Curriculum development and research-validated methods of instructing students with disabilities, including methods of teaching reading and mathematics and methods of enrichment

- and remediation in reading and mathematics;
7. Use of assistive and instructional technology in the teaching of, and learning by, students with disabilities; and
 8. Planning and managing teaching and learning environments for individuals with disabilities, including planning for and supporting students with disabilities in general education settings.

In addition, each student will participate in Field Experiences and Practicum (student teaching) with students with disabilities across the age/grade range of the student developmental level of the certificate. This will be accomplished through combined field experiences and practicum. Practicum will be done in two settings as appropriate to the childhood certificate, e.g., grades 1 through 3 or grades 4 through 6. Upon completion of the program, students will be recommended for the Childhood Certificate in Special Education 1-6.

Inclusion Course Sequence:

The sequence for a full-time student in the Inclusion Program is a compacted five year bachelor's/master's degree program. Upon completion, graduates are eligible for the Childhood Certificate in both Elementary Education and Special Education 1-6. To accomplish this task students follow a regimented program that makes maximal use of the students' time at SUNY New Paltz. A schema for completion follows.

Inclusion Program Outline:

Freshman Year:

Fall Semester

41160 Freshman Composition I
 58101 Modern World
 Foreign Language
 General Education Requirement

Spring Semester

41180 Freshman Composition II
 64140 Mathematics for Elementary Teachers
 Foreign Language
 General Education Courses

Sophomore Year:

Fall Semester

48273 Basic Physical Geography
 64240 Geometry: A Modern Introduction
 General Education Courses

Spring Semester

35370 Introduction to the Education of Diverse Populations in Early Childhood & Elementary School Settings
 General Education Courses
 Major Sequence/Major Area

Junior Year:

Fall Semester

38371 Child Psychology & Development
General Education Courses
Major Sequence/Major Area

Spring Semester

35371 Developmentally Appropriate Practices 1-6
38340 Sociological & Philosophical Foundations of Education
39310 Psychology of Learners with Disabilities
35485 Field Experience I: Introduction to the Educational System
Major Sequence/Major Area

Senior Year

Fall Semester

35525 Fundamentals of Reading
35593 Connecting Math, Science, Technology in Elementary School
39593 Learning Environments
39593 Field Experience II: Special Education

Spring Semester

355XX Field Experience III: Implementing Instruction in the Classroom
35593 Integrating Reading, Language Arts and Social Studies 1-6
39593 Assessing Individual Needs
38538 Issues in Multicultural Education
OR
38581 Issues of Racism and Sexism in Education
OR
39572 Teaching Learners of Culturally/Linguistically Diverse Backgrounds
OR
Elective course work meeting the Cultural Diversity requirement in the School of Education.

Summer Between Senior Year and Fifth Year

Completion of Major Sequence (may not be needed)
39714 Research and Current Issues in Special Education

Fifth Year:

Fall Semester

35593 Practicum in Inclusive Elementary Education
OR
39593 Practicum: Elementary Special Education
36701 Inquiry into Teaching, Learning, and School: Part I
39793 Collaboration Strategies for the Educator

Spring Semester

35593 Practicum in Elementary Inclusive Education
OR
39593 Practicum: Elementary Special Education
36702 Inquiry into Teaching, Learning, and School: Part II
39565 Teaching in Inclusive Classrooms

For course descriptions see Educational Studies, Special Education, Elementary Education, and Secondary Education department sections.

Early Childhood and Childhood Education

Phone: (845) 257-2805 or 2807

Location: Old Main Building Room 105

Web address: www.newpaltz.edu/elementaryed

PROGRAM REGULATIONS IN NEW YORK STATE ARE CHANGING BETWEEN 2000 AND 2003. THE PROGRAMS STUDENTS COMPLETE DURING THOSE YEARS MAY DIFFER FROM THOSE LISTED BELOW.

Curriculum

The Department of Elementary Education offers two programs in the following certification areas:

1-6 Childhood

B-2 Early Childhood

Students choosing these programs take a broad background of course work geared to teaching on all levels from birth through grade six. Fieldwork is done in selected schools on at least two levels from birth through grade six. Those successfully completing this program earn a Bachelor of Science in Education and are qualified to receive certifications from the State Education Department for teaching either Birth-2 or 1-6 grade levels. A minimum of 120 academic credits is needed for the baccalaureate degree with certification.

Acceptance into the 1-6 Childhood or B-2 Early Childhood:

Formal acceptance into the Childhood Education programs can occur when the following contingencies have been met:

1. A cumulative grade point average of 2.75 at New Paltz, which the student must maintain throughout the program.
2. A successful interview with the education advisor.
3. Successful completion of 30 credits.
4. Experience working with children either in a paid or volunteer capacity.
5. A resume.
6. A two-page essay explaining why the student wishes to become a teacher.
7. Three recommendations, one of which shows proof of experience with children.

All class standing sophomores and transfers interested in the Childhood Education program must pick up an application in OMB 105.

Requirements:

The required course work falls under three categories:

- A. General Education Requirements
- B. An approved liberal arts major
- C. Professional Education courses

A. General Education Requirements

Students in the Childhood Education programs take selected course work under advisement to fulfill the College's General Education requirements. All upper sophomore New Paltz students must see the Education Advisor concerning the education curricular programs (Old Main Bldg. 105).

B. Approved Liberal Arts Majors

30-38 Credits

Students must complete an approved academic major. Transfer courses for which advanced standing has been given and which are comparable to those meeting major requirements or are appropriate to an individualized major may be acceptable under advisement.

Majors for Early Childhood and Childhood Education Students

The majors for early childhood and childhood education students have been selected from the College of Liberal Arts. These majors include: English, biology, geology (earth science), foreign languages (French and Spanish), geography, history, art history, Black studies (historical core or language arts core), mathematics, political science and women's studies (language arts core). The selected majors are directly in accord with New York State Learning Standards. They provide depth in a content area and the sequence of courses has coherence and increased expectations of student performance. The courses are available to other students in addition to early childhood (Birth through Grade 2) and childhood (Grades 1-6) education majors. These majors are those accepted at this time. It is anticipated that in the future other majors with integrated content that have coherence and increased expectation of student performance may be presented for consideration.

Early Childhood B-2/Childhood 1-6 Majors:

Art History	Geography
Biology	History
Black Studies	Mathematics
Earth Science	Political Science
English	Spanish
French	Women's Studies

Art History (B-2) and (1-6)

30 credits

Required courses.....24 credits

- 11201 Art of the Western World I (3)
- 11202 Art of the Western World II (3)
- 11358 Early 20th-Century Art (3)
- 11360 Arts of Asia I (3)
- 11381 Arts of Asia II (3)
- 11382 American Art (3)
- OR
- 11370 Art of Hudson Valley (3)
- 09105 Introduction to Drawing and Design (3)
- 09110 Introduction to Ceramics (3)
- OR
- 09120 Introduction to Metal (3)
- OR
- 09170 Introduction to Sculpture (3)

Art History Electives..... 6 credits

Biology (B-2) and (1-6)

31-35 credits

Required courses.....16 credits

15201 General Biology I (4)

15202 General Biology II (4)

15320 Genetics (4)

15340 Ecology (4)

One of the following..... 4-5 credits

15305 Plant Morphology (4)

15307 Comparative Vertebrate Anatomy (5)

One of the following..... 3-4 credits

15301 Field Biology Fall (3)

15302 Field Biology Spring (3)

15412 Evolutionary Theory (3)

15418 Animal Behavior (4)

Electives..... 6-10 credits

Two upper-division biology electives

Black Studies (B-2) and (1-6)

30 credits

Required courses.....12 credits

17100 Introduction to Black Studies (3)

17357 Psychology of the Black Child (3)

17370 Education in the Black Community (3)

17396 Black English: Language and Culture (3)

In addition, each major is required to complete six courses from either the (1) Historical Core or the (2) Language Arts Core.....18 credits

(1) Historical Core

17200 Introduction to Africa (3)

17201 Black History I (3)

17202 Black History II (3)

17231 Development of Afro-Latin American Civilization 1492-1825 (3)

17232 Contemporary Afro-American Civilization Since 1825 (3)

17301 Survey of Pre-Colonial Africa to 1800 (3)

17302 Survey of Contemporary Africa: 19th Century to Present (3)

17309 Introduction to Afro-Brazilian History (3)

17311 Blacks in the Caribbean, 1492 - Present (3)

17325 History of Slavery in the Americas (3)

17347 History of South Africa (3)

17450 The Portuguese in Africa (3)

17460 West African Kingdoms in the 19th Century (3)

17493 United States Civil Rights (3)

17593 Blacks in New York State History (3)

(2) Language Arts Core

- 17267 Survey of Black American Literature (3)
- 17269 Black Poetry and Drama (3)
- 17310 Communications and the Black Community (3)
- 17320 Contemporary Black American Literature (3)
- 17323 Black Poetry (3)
- 17328 Black Drama in America (3)
- 17333 Black Rhetoric (3)
- 17393 Black Women's Literature (3)
- 17412 Critical Analysis of Black American Literature (3)
- 17415 Recurrent Themes in Black Literature (3)
- 17593 Black Experience Children's Books (3)

Earth Science (B-2) and (1-6)

35-36 credits

Cognate courses..... 7 credits

- 12201 Exploring the Solar System (3)
OR
- 12202 Exploring the Universe (3)
- 22201 General Chemistry I (4)

Geology courses.....28-29 credits

- 50120 Weather and Environment (4)
- 50220 Geologic Processes (4)
- 50301 Historical Geology (4)
- 50305 Paleontology/Stratigraphy (4)
- 50311 Mineralogy/Crystallography (4)
- 50331 Stratigraphy-Sedimentation (3)
- 50335 Stratigraphy-Sedimentation Laboratory Procedures (2)
One 300-level geology course by advisement (3-4)

English (B-2) and (1-6)

32 credits

At least one-half of the English major must be completed at New Paltz. Freshman Composition credits are not included in that major. Courses taken as pass/fail cannot be counted toward the major.

Required courses.....21 credits

Elect one of the following:

- 41301 English Literature I (4)
- 41302 English Literature II (4)

Elect one of the following:

- 41331 American Literature I (4)
- 41332 American Literature II (4)

Elect one of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

Elect three of the following:

- 41200 Analysis and Interpretation (3)
- 41224 Expository Writing (3)
- 41226 Practical Grammar (3)
- 41345 Creative Writing Workshop I (3)
- 41385 Theories/Writing (3)
- 53230 Journalism I (3)

Elective courses.....12 credits

With the approval of the department advisor, each major candidate must complete four elective courses in literature, of which two must be at the 400 or 500 level. Two electives must be period or genre courses.

French (B-2) and (1-6)

30-36 credits

Basic language courses..... 6 credits

- 46101 Elementary French I (3)
- 46102 Elementary French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Department of Foreign Languages.

Required courses.....30 credits

Both of the following:

- 46201 Intermediate French I (3)
- 46202 Intermediate French II (3)

Both of the following:

- 46301 French Composition/Conversation I (3)
- 46302 French Composition/Conversation II (3)

Both of the following:

- 46319 French Civilization (3)
- 46404 Daily Life in France (3)

Two of the following:

- 46313 French Literature I (3)
- 46314 French Literature II (3)
- 46416 French Literature III (3)

Two of the following:

- 46401 Advanced French Composition/Conversation I (3)
- 46402 Advanced French Composition/Conversation II (3)
- 63420 Applied Linguistics for Foreign Language Training (3)

Geography (B-2) and (1-6)

30 credits

Required courses..... 9 credits

- 48250 Maps and Graphics (3)
- 48252 Economic Geography (3)
- 48274 Environment & Culture (3)

Electives.....21 credits

Each major candidate is required to complete, by advisement seven courses in geography selected from systematic and/or regional courses, at least five of which shall be at the 300 level or above.

History (B-2) and (1-6)

30 credits

Required courses.....12 credits

- 58207 Medieval Europe (Survey from Late Roman Empire to 1500) (3)
- 58214 Modern Europe (Survey from 1500 to Present) (3)
- 58221 Young Republic (American History Survey to 1865) (3)
- 58222 Modern America (Survey from 1865 to the Present) (3)

Two of the following..... 6 credits

Non-European and non-American societies

- 07379 Cultures of the Middle East (3)
- 17321 Afro-Latin American Civilization, 1492-1825 (3)
- 48260 Understanding China (3)
- 48307 Understanding Latin America (3)
- 58309 Indians of the U.S. (3)
- 58316 Modern China (3)
- 58333 Soviet Union (3)
- 58334 Traditional Japan (3)
- 58347 History of South Africa (3)

One of the following..... 3 credits

New York State History

- 58303 Empire State (3)
- 58308 Indians of New York State (3)
- 58508 Seminar in New York State History (3)
- 58511 Hudson Valley Culture (3)
- 58525 New York State and the Revolution (3)

One of the following..... 3 credits

- 77216 American Government and Politics (3)
- 77432 American Presidency (3)

One of the following..... 3 credits

This requirement guarantees that at least one course is taken which is related to minority experiences in the U.S. or elsewhere.

- 58305 Women in Modern History (3)
- 58308 Indians of New York State (3)
- 58309 Indians of the U.S. (3)
- 58310 Indians of the Eastern Woodlands (3)
- 58314 History of Women in the U.S. (3)
- 58373 The Holocaust (3)
- 58374 American Jewish Experience (3)
- 58380 Saints, Witches, and Madwomen (3)
- 17201 Black History I (3)

17202 Black History II (3)

One of the following..... 3 credits

58302 American Immigration (3)

58304 American City (3)

58414 American History through Biography (3)

58415 European History through Biography (3)

Mathematics (B-2) and (1-6)

32-34 credits

Required courses.....26 credits

64140 Mathematics for Elementary School Teachers (3)

64240 Geometry: A Modern Introduction (3)

64241 Introduction to Statistics (3)

64251 Calculus I (4)

64252 Calculus II (4)

64260 Foundations of Mathematics I (3)

64301 Foundations of Mathematics II (3)

64331 Axiomatic Geometry (3)

One of the following..... 3-4 credits

25104 Visual Programming (3)

25210 Computer Science I: Foundations (4)

25293 Pascal Programming (3)

Electives..... 3-4 credits

The elective must be a course offered in the Mathematics/Computer Science Department at the 300 level or above.

Political Science (B-2) and (1-6)

36 credits

Required courses.....12 credits

77216 American Government & Politics (3)

77226 Classics of Political Thought (3)

77227 International Politics (3)

77229 Introduction to Comparative Politics (3)

Upper-Division Electives.....24 credits

Six credits or less of the State Politics Semester (77484) or the Government Internship (77480) may be credited toward the Upper Division Electives.

Spanish (B-2) and (1-6)

30-36 credits

Basic language courses..... 6 credits

89101 Elementary Spanish I (3)

89102 Elementary Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers of Spanish may substitute courses

for native speakers.

Required courses.....30 credits

- 89201 Intermediate Spanish I (3)
- 89202 Intermediate Spanish II (3)
- 89301 Spanish Composition/Conversation I (3) (*Native speakers may substitute grammar and composition which is taken in place of 89301*).
- 89361 Spanish Composition/Conversation II (3)
- 89365 The Culture of Spain (3)
- 89366 The Culture of Spanish America (3)
- One of the following:*
- 89367 Spanish Literature I (3)
- 89368 Spanish Literature II (3)
- One of the following:*
- 89369 Spanish American Literature I (3)
- 89370 Spanish American Literature II (3)
- Two of the following:*
- 89363 Spanish Phonetics and Oral Practice (3)
- 63420 Applied Linguistics for Foreign Language Training (3)
- 89461 Advanced Spanish Composition (3)

Women's Studies (B-2) and (1-6)

31 credits

Required courses.....13 credits

- 94220 Women: Images and Realities (4)
- 94317 History of Women in the U.S. (3)
- 90412 Communication and Gender (3)
- 94490 Seminar in Women's Studies (3)

Language Arts Core..... 3 credits

- 41323 Women in Literature: A Contemporary View (3)

Select three of the following..... 9 credits

- 41323 Women in Literature: A Contemporary View (3)
- 41324 Women in 20th Century Literature (3)
- 41474 Virginia Woolf (3)
- 52319 Women in German Literature and Film (3)
- 90356 Communication and Dissenting Voices (3)
- 91425 Multiculturalism and Theatre (3)

Each semester one or more selected topics courses (XXX93) are offered that can be used to fulfill this requirement. Approval of the advisor is required.

Electives..... 6 credits

Women's Studies courses and selected topics courses may also be selected with advisement.

C. Professional Education Requirements for B-2 Early Childhood and 1-6 Childhood

Transfer courses for which advanced standing credit has been given and which are comparable to those listed for these requirements may be acceptable under advisement.

Liberal Arts prerequisites.....15credits

- 48273 Basic Physical Geography (3)
- 64140 Mathematics for Elementary Teachers (3)
- 64240 Geometry: A Modern Introduction (3)
- XXXXX Language other than English (6)

(Transfer students with an AA/AS may use Sign Language I & II for language requirement.)

NOTE: All above course work in Education and Liberal Arts MUST be completed before the Professional Semester.

EDUCATION COURSES FOR 1-6 CHILDHOOD

Course Sequence

The sequence described below is for a full-time student; the program may be taken on a part-time basis, however.

Year 1

- General Education Requirements
- Subject Matter Major Courses

Year 2

- General Education Requirements
- Subject Matter Major Courses
- 35370 Introduction to Education of Diverse Populations in Early Childhood and Elementary Education (3)
- 38340 Sociological and Philosophical Foundations of Education* (3)

** Course designed as writing intensive.*

Year 3

- General Education Requirements
- Subject Matter Major Courses
- 35375 Teaching Reading in the Elementary School (3)
- 38371 Child Psychology and Development (3)
- 39350 Creating Inclusive Elementary School Classrooms (3)

Year 4

- 35371 Developmentally Appropriate Practices, Childhood (3)
- 35380 Teaching Mathematics, Science, and Technology in Elementary School (3)
- 35381 Teaching English Language Arts and Social Studies in Elementary School (3)
- 35404 Student Teaching, Primary Setting (6)
- 35405 Student Teaching, Intermediate Setting (6)

Notes On Course Sequence

The courses are sequenced so that teacher candidates move from an understanding of the learner (third year) before they begin their content pedagogy set of courses (fourth year).

Student Teaching Semester.....12 credits

In order to register for Student Teaching, the student must have received a grade no lower than "C" in each one of the Professional Semester courses and maintained an overall GPA of 2.75.

- 35404 Student Teaching Elementary, Primary Setting (6)
- 35405 Student Teaching Elementary, Intermediate Setting (6)

For additional information about student teaching, see the section on “Teacher Education Programs” in the beginning of this section.

Education Courses for Early Childhood; Birth-Second Grade

Course Sequence

The sequence described below is for a full-time student; the program may be taken on a part-time basis, however.

Year 1

General Education Requirements
Undergraduate Major Courses

Year 2

General Education Requirements
Undergraduate Major Courses
35370 Introduction to Education of Diverse Populations in Early
Childhood and Elementary Education (3)
38371 Child Psychology and Development (3)

Year 3

General Education Requirements
Undergraduate Major Courses
35411 Curriculum I: Infants and Toddlers (3)
35415 The Development of Symbolic Representation, Language and Literacy (3)
39350 Creating Inclusive Elementary School Classrooms (3)

Year 4

35375 Teaching Reading in the Elementary School I (3)
35404 Student Teaching, Primary Setting (6)
35412 Curriculum II: Preschool and Kindergarten (3)
35413 Curriculum III: First and Second Grades (3)
35414 Developmentally Appropriate Practices for Children Birth- Second Grade (3)
35493 Student Teaching, Birth through Kindergarten (6)
38340 Sociological and Philosophical Foundations of Education* (3)

**Course designed as writing intensive.*

Transfer Students

Students transferring to New Paltz may have special problems in fulfilling General Education requirements. They are referred to the Education Advisement Office (OMB 105, 257-2805 or 257-2807) where they will be advised specifically on how to complete the General Education requirement.

Mandatory Training:

All candidates for teacher certification will complete a state-mandated two-hour training lecture in recognizing and reporting child abuse or neglect. Group sessions will be provided on campus, or students may take the training from social service agencies or hospitals. This is not a credit course and evidence of training must be documented.

Schools Against Violence in Education Act:

All students, in addition to other college and certificate requirements, will complete two hours of course work or training in school violence and prevention. Students will receive a list of approved providers and/or institutions that will offer the course work or training.

New York State Teacher Certification Examinations:

Effective September 2, 1993, prospective childhood school teachers (Birth-6) will be required to achieve passing scores on the Liberal Arts and Science Test (LAST), on the Elementary Assessment of Teaching Skills-Written (ATS-W), and the Content Specialty Test (CST) for the initial certificate. To achieve the professional certificate, candidates will be required to achieve passing scores on the Assessment of Teaching Skills-Performance (ATS-P). Information about the administration of these examinations can be obtained from the Office of Education Advisement, OMB 105, 257-2807 or 2805.

Liberal Arts Designation:

The following courses may be counted toward the undergraduate liberal arts requirement: 35508, 35510, 35511, 35512, 35530, 35595.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

35370 Education of Diverse Population in Early Childhood & Elementary School (3)

Introduction to the teaching of children, birth through 6th grade, with a creative look at issues related to student diversity and multiculturalism. The course includes the examination of different types of programs and schools, the history of the education profession, and the professional expectations for working with diverse populations in many different settings. Twenty-hour field participation.

35371 Developmentally Appropriate Practices, Childhood (3)

Participants will consider the cognitive and social development of children preschool through 6th grade, and the implications for curriculum development, classroom management and organization. Students will develop competence in observing and assessing children's developmental competence and classroom performance by participating in appropriate classroom situations. Prerequisite: 38271 and 38272.

35375 Teaching Reading in the Elementary School I (3)

Introduction to the promotion of emergent literacy in the elementary classroom. Use of reading procedures, skills, techniques, and materials in lab situations, tutorial work, and microteaching. Prerequisite: 2.75 GPA and PC.

35376 Teaching Reading/Language Arts in the Elementary School II (3)

Effective ways to promote literacy through the integration of all the Language Arts (listening, speaking, reading, and writing). Emphasis is on the advantages and implications of linking the Language Arts, as well as classroom strategies and activities to tie the Language Arts together in a natural way. Prerequisite: GPA 2.75, PC and 35375.

35377 Teaching Mathematics in the Elementary School (3)

Procedures and materials for effective teaching of mathematics in early childhood and elementary grades. Prerequisite: 64140, 64240, 2.75 GPA and PC.

35378 Teaching Science in the Elementary School (3)

Procedures and materials for effective teaching of science in early childhood and elementary grades. Prerequisite: PC and 2.75 GPA.

35379 Teaching Social Studies in the Elementary School (3)

Procedures and materials for effective integrative teaching of social studies in early childhood and upper elementary grades. Prerequisite: PC and 2.75 GPA.

35380 Teaching Mathematics, Science and Technology in Elementary School (6)

This course is for students entering the Professional Semester. In this course students will learn about principles and methods regarding the teaching of mathematics, science, and technology in elementary school. Special emphasis is given to the New York State Learning Standards for Mathematics, Science, and Technology and the connectedness of these disciplines. Prerequisite: Professional Semester registration.

35381 Teaching English Language Arts & Social Studies in Elementary School (6)

(Field Experience - 20 hours)

Focuses on assessment techniques, curriculum development and instruction based on Learning Standards in English Language Arts and Social Studies in Elementary School. Special emphasis on reading and writing in the content area of social studies for upper elementary students. Prerequisite: Professional Semester registration.

35404 Student Teaching, Primary Setting (6)

A full-time experience in the major area of teacher responsibility in a primary setting. Prerequisite: Successful completion of Professional Semester requirements and PI.

35405 Student Teaching, Intermediate Setting (6)

A full-time experience in the major area of teacher responsibility in grades four through six. Prerequisite: Successful completion of Professional Semester requirements and PI.

35411 Curriculum I: Infants and Toddlers (3) *(Field Experience - 20 hours)*

Study of children prenatal through age two. Investigation of child development principles to promote physical, intellectual, social, and emotional development and competence in the child. Strategies to establish and maintain safe, healthy learning environments and purposeful and responsive programs for very young children and their families. Guidelines for having positive and productive relationships with families, and for maintaining a commitment to professionalism. Prerequisite: Professional Semester registration.

35412 Curriculum II: Preschool and Kindergarten (3) (*Field Experience - 20 hours*)

Preparation for working with preschool/kindergarten children and their families. Child development principles as they apply to children of this age group. Curriculum investigation of age appropriate strategies in the following areas: the arts, health/physical development, mathematics, science and technology, and social studies. Prerequisite: Professional Semester registration.

35413 Curriculum III: First and Second Grades (3) (*Field Experience - 20 hours*)

Preparation for working with first and second graders and their families. Curriculum investigation of age appropriate strategies in the arts, health/physical development, mathematics, science and technology, and social studies. Prerequisite: Professional Semester registration.

35414 Developmentally Appropriate Practices for Children; Birth-Second Grade (3)

(*Field Experience - 20 hours*)

Students will consider the cognitive and social development of children, birth through second grade, and the implications for child development, curriculum planning, environmental organization and management. Students will develop competence in observing and assessing children's development and environmental performance by participating in appropriate settings. Prerequisite: Professional Semester registration.

35415 The Development of Symbolic Representation, Language, and Literacy (3)

Exploration of the interaction between symbolic development, language, and literacy acquisition in children birth through five years of age. Development of strategies to encourage language and literacy in very young children. Prerequisite: Professional Semester registration.

35485 Field Experience One: Introduction to the Educational System (3)

This is a one-semester, 60-hour course that gives students the opportunity to understand how schools operate and how teachers and students function in a school. The students complete child studies, interviews, and tutor children.

Secondary Education

Phone: (845) 257-2850

Location: Old Main Building Room 204

Web Address: www.newpaltz.edu/secondaryed

Admission Requirements:

- 2.75 Grade Point Average for at least 24 credits of college course work
- grades of B or better in both required Freshman Composition Courses
-

Student Teaching Admission Requirements:

- 2.50 GPA or higher in all course work to date
- 2.50 GPA or higher in all Content course work prior to Student Teaching semester (see below)
- 2.75 GPA or higher in all Pedagogical Core course work prior to Student Teaching semester (see below)
- grade of B or better in Discipline-Specific Methods course (see below)

- Satisfactory Program Portfolio as judged by faculty members of the Department of Secondary Education (see below)
- Recommendation of discipline-specific program coordinator and department chair

The Program

38 credits

Educational Studies

Required courses.....13 credits

- 38340 Sociological and Philosophical Foundations (3)
- 38372 The Developing Adolescent (3)
- 38383 Introduction to Literacy for Diverse Learners (3)
- 39385 Differentiating Instruction in the Secondary School (3)

Secondary Education

Required courses..... 9 credits

- 36350 Field Work #2/35 hours (1)
- 36354 Foundations of Secondary Education Seminar (1)
- 36356 Computers in the Classroom (3)
- 36407 Field Work #2/60 hours (1)
- 36453 Introduction to Curriculum and Assessment (3)

Methods

One of the following (taken the semester before Student Teaching)..... 3 credits

- 36370 Teaching English in the Secondary School (3)
- 36371 Teaching French in the Secondary School (3)
- 36373 Teaching Social Studies in the Secondary School (3)
- 36374 Teaching Science in the Secondary School (3)
- 36375 Teaching Mathematics in the Secondary School (3)
- 36381 Teaching Spanish in the Secondary School (3)
- 36391 Teaching German in the Secondary School (3)

Student Teaching

Required courses.....13 credits

- 36404 Student Teaching in the Junior High School (6)
- 36405 Student Teaching in the Senior High School (6)
- 36406 Student Teaching Seminar (1)

Additional Requirements:

Apply for a Student Teaching assignment one semester in advance: September for a spring assignment; February for the fall, OMB 107, Office of Student Teaching. In each case, application should be made during the first two weeks of the semester.

Successful completion of the New York State Certification Examination: Liberal Arts and Sciences Test (LAST), Assessment of Teaching Skills-Written (ATS-W) and Content Specialty Test (CST).

A requirement of 3-8 credits in the study of a language other than English must be met. Students with no previous language study must complete a two-semester sequence in a language; students who can be placed at an intermediate or advanced level must complete one course. (Please Note: The study of sign

language satisfies the New York State teacher certification requirement but *does not* satisfy the College's general education requirement.)

Two state-mandated workshops are required for all students: 1) workshop in recognizing and reporting symptoms of child abuse and 2) safe schools workshop in dealing with school violence.

Secondary Education Majors:

Biology (7-12)

65-72 credits

Required cognate courses.....35-38 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 22305 Organic Chemistry I Lecture (3)
- 22306 Organic Chemistry I Lab (2)
- 64251 Calculus I (4)
- OR
- 64254 Basic Calculus (4)
- 75221 Fundamental Physics I (4)
- 75222 Fundamental Physics II (4)
- 50220 Physical Geology (4)

One of the following:

- 22308 Organic Chemistry II Lecture (3)

AND

- 22309 Organic Chemistry II Lab (2)

OR

- 15318 Biological Chemistry (3)

One of the following:

- 25210 Introduction to Computing (4)
- 25220 Introduction to Fortran Programming (3)
- 64241 Introductory Statistics (3)
- 64252 Calculus II (4)

Required biology courses.....23-25 credits

- 15201 General Biology I (4)
- 15202 General Biology II (4)
- 15320 Genetics (4)
- 15340 Ecology (4)

One of the following:

- 15305 Plant Morphology (4)
- 15307 Comparative Vertebrate Anatomy (5)

One of the following:

- 15413 General Physiology (3)
- 15423 Microbial Physiology (4)
- 15425 Plant Physiology (4)

Biology electives..... 7-9 credits

Each major candidate is required to complete, by advisement, 2 biology courses above the 300 level.

Chemistry (7-12)

56-59 credits

Required cognate courses.....24 credits

- 15210 Introductory Biology (4)
- 50220 Physical Geology (4)
- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 75201 General Physics I (4)
- 75202 General Physics II (4)

Required chemistry courses.....32-35 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 22303 Introduction to Analytical Chemistry (5)
- 22305 Organic Chemistry I Lec (3)
- 22306 Organic Chemistry I Lab (2)
- 22308 Organic Chemistry II Lec (3)
- 22309 Organic Chemistry II Lab (2)
- 22321 Physical Chemistry I (3)
- 22322 Physical Chemistry II (3)
- 22323 Experimental Physical Chemistry (3)
- 22485 Seminars in Chemistry (0-3)

Earth Science (7-12)

57-58 credits

Track 1 - General Geology

Geology core.....27 credits

- 50220 Physical Geology (4)
- 50301 Historical Geology (4)
- 50311 Mineralogy/Crystallography (4)
- 50313 Optical Mineralogy (3)
- 50314 Petrology (4)
- 50331 Stratigraphy-Sedimentation (4)
- 50338 Structural Geology (4)

Geological Science Courses..... 8 credits

- 50120 Weather and Environment (4)
- 50305 Paleontology (4)

Required cognate courses.....22-23 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 75221* Fundamentals of Physics I (4)
- 75222* Fundamentals of Physics II (4)

One of the following:

- 12201 Exploring the Solar System (3)
- 12202 Exploring the Universe (3)

One of the following by advisement:

- 64241 Introduction to Statistics (3)

64251 Calculus I (4)

Recommended courses:

15210 Introductory Biology (4)
25210 Computer Science I: Foundations (4)

** 75221 and 75222 may be replaced by 75201 and 75202 (recommended).*

Earth Science (7-12)

59-60 credits

Track 2 - Environmental Geoscience

Geology core.....27 credits

50220 Physical Geology (4)
50301 Historical Geology (4)
50311 Mineralogy/Crystallography (4)
50313 Optical Mineralogy (3)
50314 Petrology (4)
50331 Stratigraphy-Sedimentation (4)
50338 Structural Geology (4)

Geological Science Courses.....10 credits

50120 Weather and Environment (4)
50205 Environmental Geology (3)
One of the following by advisement:
50339 Natural Resources and Energy (3)
50346 Conservation and Environmental Impact (3)

Required cognate courses.....22-23 credits

22201 General Chemistry I (4)
22202 General Chemistry II (4)
75221* Fundamentals of Physics I (4)
75222* Fundamentals of Physics II (4)
One of the following:
12201 Exploring the Solar System (3)
12202 Exploring the Universe (3)
One of the following by advisement:
64241 Introduction to Statistics (3)
64251 Calculus I (4)
15210 Introductory Biology (4)
25210 Computer Science I: Foundations (4)
50305 Paleontology (4)

** 75221 and 75222 may be replaced by 75201 and 75202 (recommended).*

English (7-12)

43 credits

Required courses.....28 credits

41226 Practical Grammar (3)
41301 English Literature I (4)
41302 English Literature II (4)
41331 American Literature I (4)

41332 American Literature II (4)

One of the following:

41406 Shakespeare I (3)

41407 Shakespeare II (3)

Two of the following:

41200 Analysis and Interpretation of Literature (3)

41224 Expository Writing (3)

41345 Creative Writing Workshop I (3)

41385 Theories of Writing (3)

53230 Journalism I (4)

Electives.....15 credits

Each major candidate must complete 5 elective courses in literature, with the approval of the English department advisor, with at least 2 courses at the 400 or 500 level. At least one half of the English courses must be completed at New Paltz. A "C" average in major courses is required.

French (7-12)

36-48 credits

Required courses.....24-36 credits

Basic language courses:

46101 Elementary French I (3)

46102 Elementary French II (3)

46201 Intermediate French I (3)

46202 Intermediate French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required courses:

46301 French Composition and Conversation I (3)

46302 French Composition and Conversation II (3)

46313 French Literature I (3)

46314 French Literature II (3)

46319 French Civilization (3)

46404 Daily Life in France (3)

46416 French Literature III (3)

One of the following:

46401 Advanced French Composition/Conversation I (3)

46402 Advanced French Composition/Conversation II (3)

Electives.....12 credits

Each candidate is required to complete, by advisement, 4 courses at the 400 level or equivalent.

Candidates for certification must earn satisfactory scores on a proficiency test in French.

German (7-12)

33-45 credits

Basic language courses.....12 credits

52101 Elementary German I (3)

- 52102 Elementary German II (3)
- 52201 Intermediate German I (3)
- 52202 Intermediate German II (3)

Students with prior training or experience in German may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required courses.....18 credits

- 52311 German Composition/Conversation I (3)
- 52312 German Composition/Conversation II (3)
- 58311 Modern Germany [History Dept.] (3)
- 52316 Germany Today (3)
- 52406 Modern German Fiction (3)
- 52409 Nineteenth-Century German Plays (3)

Electives.....15 credits

Each major candidate is required to complete, by advisement, five elective courses in German studies (15 credits). At least three of these (9 credits) must be German courses at the 300 or 400 level, and up to two courses (6 credits) may be in cognate areas with a substantial German component. Such cognate areas include Art History, History, Music, Philosophy, Political Science and Sociology.

Candidates for certification must earn satisfactory scores on a proficiency examination offered through the Foreign Language Department. This is also a graduation requirement for all Secondary Education (7-12) Foreign Language majors.

Mathematics (7-12)

47-48 credits

Required courses.....47-48 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64253 Calculus III (4)
- 64260 Foundations of Mathematics I (3)
- 64301 Foundations of Mathematics II (3)
- 64321 Intermediate Analysis I (3)
- 64331 Axiomatic Geometry (3)
- 64362 Linear Algebra (3)
- 64363 Combinatorics (3)
- 64364 Introduction to Abstract Algebra I (3)
- 64381 Probability and Statistics I (3)

PLUS:

- 25104 Visual Programming (3)
- OR
- 25210 Computer Science I: Foundations (4)

PLUS:

- 75201 General Physics I (4) *AND*
- 75202 General Physics II (4)
- OR
- 75221 Fundamental Physics I (4) *AND*

75222 Fundamental Physics II (4)

Recommended, but not required, courses:

25210 Computer Science I: Foundations (4)

25310 Computer Science II: Data Structures (3)

Physics (7-12)

65-66 credits

Required physics courses.....32 credits

75201 General Physics I (4)

75202 General Physics II (4)

75301 Introductory Mathematical Physics (3)

75305 Computational Physics (3)

75309 Modern Physics (4)

75313 Electricity and Magnetism (3)

75411 Classical and Quantum Physics I (3)

75412 Classical and Quantum Physics II (3)

75424 Advanced Laboratory (2)

75491 Physics Senior Project (3)

Required cognate courses.....27 credits

22201 General Chemistry I (4)

22202 General Chemistry II (4)

25210 Computer Science I: Foundations (4)

64251 Calculus I (4)

64252 Calculus II (4)

64353 Calculus III (4)

64359 Ordinary Differential Equations (3)

Electives..... 6-7 credits

Select one of the following:

12201 Exploring the Solar System (3)

12202 Exploring the Universe (3)

15201 General Biology I (4)

50220 Geological Processes (4)

AND

Select one of the following:

40210 Circuit Analysis I (3)

64375 Numerical Methods (3)

75322 Optics (3)

75402 Fluid Mechanics (3)

75422 Thermodynamics (3)

75429 Solid State Physics (3)

75432 Atomic and Nuclear Physics (3)

Social Studies (7-12)

45 credits

Required history courses.....21 credits

58221 The Young Republic (3)

58222 Modern America (3)
Two courses in European History by advisement only (6)
Three upper-division history courses (9)

Required cognate courses.....24 credits

Two courses from each of the following areas by advisement only: geography (6), political science (6), economics (6), area studies, defined as Asia, Africa, Latin America, Russia, the Middle East and American Indian (6).

Notes for Social Studies major

1. All courses should have prior approval under History Department advisement.
2. No selected topic or independent study courses to be used, except by special permission.
3. Area studies consist of courses on Asia, Africa, Latin America, Russia, the Middle East and American Indian. With prior approval, this requirement may be met from courses in history, geography, political science, economics, anthropology, Women's Studies, or Black Studies.

Spanish (7-12)

36-48 credits

Required courses.....24-36 credits

Basic Language courses:

- 89101 Elementary Spanish I (3)
89102 Elementary Spanish II (3)
89201 Intermediate Spanish I (3)
89202 Intermediate Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers may substitute courses for native speakers for the above.

- 89301 Spanish Composition/Conversation I (3)
(Native speakers should take Grammar and Composition for Native Speakers instead of 301.)
89361 Spanish Composition/Conversation II (3)
89365 Culture of Spain I (3)
89372 Culture of Latin America I (3)

One of the following:

- 89363 Spanish Phonetics and Oral Practice (3)
(Required of all non-native speakers)

OR

- 89661 Advanced Spanish Composition (3)

One of the following:

- 89367 Spanish Literature I (3)
89368 Spanish Literature II (3)

One of the following:

- 89369 Spanish-American Literature I (3)
89370 Spanish-American Literature II (3)

One of the following:

- 89468 Intensive Readings in the Literature of the Golden Age - Prose (3)
89469 Intensive Readings in the Literature of the Golden Age - Drama and Poetry (3)

- 89470 The Generation of 1898 (3)
89471 Spanish-American Novel (3)

Electives.....12 credits

Each major is required to complete by advisement 4 courses in Spanish at the 400 or 500 level.

Candidates for certification must earn satisfactory scores on a proficiency test in Spanish.

General Education Designation

The following Secondary Education course may be counted toward the general education requirement: 36453.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

36350 Fieldwork #2 (1)

Students will immerse themselves in secondary school settings, cultures, and direct discipline-related activities. This includes interviewing, observing, and interacting with students, discipline-specific teachers, administrators, and staff. Co-requisite: Discipline-specific methods course (36370, 36371, 36373, 36374, 36375, 36381, 36391).

36354 Foundations of Secondary Education Seminar (1)

In a series of classroom- and field-based exercises, students will begin to inquire into key curriculum issues in secondary education within the broader philosophical, psychological, and social contexts of schools and schooling. Prerequisite: Two of the following: 38340, 38372, 38365.

36356 Computers in the Classroom (3)

This course introduces teacher education students to the microcomputer and how it may be used to support the teaching and learning process. Students will learn how to use the microcomputer and related technologies for instruction, in all subject areas, as well as for educational management purposes.

36370 Teaching English in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of English in the secondary school. Analysis of relevant research. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: PI.

36371 Teaching French in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching French in the secondary school. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: 38340 or 38373, 38372, 38365, and PI.

36373 Teaching Social Studies in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of the social studies in the secondary school. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: PI.

36374 Teaching Science in the Secondary School (3)

Constructivist views of science, science learning, and science teaching. Strategies for planning, managing, and assessing instruction especially for pupils demonstrating a wide range of backgrounds and abilities. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: PI.

36375 Teaching Mathematics in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of secondary school mathematics. Analysis of relevant research. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: PI.

36381 Teaching Spanish in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching Spanish in the secondary school. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: 38340 and 38373, 38372, 38365, and PI.

36391 Teaching German in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching German in the secondary school. The course will also include a series of structured instructional experiences intended to further students' first-hand knowledge of secondary schools and schooling. Prerequisite: 38340 or 38373, 38372, 38365, and PI.

36403 Student Teaching - Senior High School Science (12)

A full-time experience in the major areas of teacher responsibility in secondary school science. Prerequisite: PI, B in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36404 Student Teaching Secondary, 7-9 (6)

A full-time experience in the major areas of teacher responsibility in grades 7-9. Prerequisite: Appropriate methods in Department of Secondary Education, 38365 and PI. Prerequisite: PI, B in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36405 Student Teaching Secondary 10-12 (6)

A full-time experience in the major areas of teacher responsibility in grades 10-12. Prerequisite: PI, B in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36406 Student Teaching Seminar (1)

All secondary education students must take this seminar while student teaching. The principal purposes of the seminar are four: first, to provide an orientation for students about to begin to student teach; second, to offer practical support for students while student teaching; third, to help students develop individual professional portfolios; and fourth, to serve as a culminating educational experience for all pre-service secondary education students. Prerequisite/co-requisite: 36404 and 36405.

36407 Fieldwork #3 (1)

Students will immerse themselves in two particular secondary school settings with the purpose of

understanding the school culture in which they will be student teaching. This will involve interviewing, observing, and interacting with students, teachers, administrators and staff in a broad range of “normal” school-related activities. Co-requisite: Discipline-specific student teaching course (36403, 36404, 36405).

36453 Introduction to Curriculum & Assessment (3)

Students will read, discuss, debate and write about curriculum and assessment philosophy and practice. Students will experience first hand a variety of authentic learning assessments and observe and interview teachers in the Hudson Valley. Prerequisite: PI; 38340, 38372, 36354.

Center for Academic Development and Learning

The Center for Academic Development and Learning is funded primarily by a United States Department of Education (USED) Student Support Services Grant. Eligibility for the grant program may be based on academic consideration, financial consideration or other parameters as determined by the United States Department of Education guidelines. Students who meet the eligibility criteria are provided with a comprehensive academic assistance program that includes a multidisciplinary tutorial program, a writing center, direct instruction in critical thinking and Introduction to Basic Algebra, and a support system for the learning disabled. A major goal of the department's staff is to challenge students to fulfill their academic potential by becoming critical thinkers and active learners.

Academic Support Programs

Academic Skills and Knowledge Assessment

All first-year students are expected to demonstrate a high level of proficiency on placement examinations in critical thinking and mathematics. The academic support staff and college faculty evaluate placement examinations during orientation sessions. Students who demonstrate academic weaknesses or gaps in knowledge are required to enroll in critical thinking and academic support sessions that will ensure their academic success at the College.

Course Descriptions

30011 College Learning Techniques (0)

Various learning strategies will be presented. Students will apply strategies to the note-taking, test preparation, reading, and thinking activities of the concurrent courses. Prerequisite: PI.

30015 Critical Thinking 1 (0)

This course is designed to teach students the higher-order thinking skills that are necessary for academic success. Through the interaction of reading and writing assignments based on specific academic content, students will develop discipline-specific thinking skills that can be transferred to other academic contexts across the curriculum. Prerequisite: PI and freshman.

30016 Critical Thinking 2 (0)

This course is designed to build on the skills learned in Critical Thinking 1 and further develop the higher-order thinking skills that are necessary for academic success. Through the interaction of reading and writing assignments based on specific academic content, students will develop discipline -- specific thinking skills that can be transferred to other contexts across the curriculum. Prerequisite: PI and freshman.

Academic Support for Students with Learning Disabilities and Physically Handicapped Students

The goal of the Learning Specialist's Office is to assist students with disabilities in becoming independent and successful learners within the college curriculum. Students with documented learning and/or physical disabilities are eligible to receive services based on academic need. These services range from instruction in learning strategies, time management, and test-taking to content-area tutoring and

writing assistance. The Learning Specialist offers workshops on self-advocacy, computer technology, and issues related to disability.

Students with documented disabilities are legally entitled through the Americans with Disabilities Act (ADA) to receive reasonable accommodations for the learning and testing process. The Learning Specialist works to provide scribes, alternative testing arrangements, or proctors, and serves as a liaison to the faculty on behalf of the student.

Academic Workshops and Modular Courses

Each semester the teaching staff of the Academic Assistance Center designs instructional workshops in a variety of academic courses and subject areas to support the needs of faculty and students.

Multidisciplinary Tutoring Center

Individual and small group tutoring are offered for academic courses in a wide variety of courses and disciplines. The tutorial program utilizes a peer-tutorial model and maintains high standards in the selection and training of its staff.

The Writing Center

The Writing Center provides students with an opportunity to improve their writing skills. Designed as a support service, the Writing Center helps students clarify meaning and consider the effectiveness of their writing with regard to purpose and audience.

Under the supervision of the Tutorial Coordinator, peer tutors provide individual or small group instruction to students enrolled in English Composition and English as a Second Language and writing intensive courses.

Haggerty English Language Program

Web Address: www.newpaltz.edu/esl

The Haggerty English Language Program (HELP) provides English-language instruction through innovative linguistic pedagogy and promotes international cultural exchange. The program serves international students enrolled in college, permanent residents, and refugees and citizens of limited English proficiency who want to refine their academic skills in English or who want to learn English for personal or professional reasons.

International applicants who are not qualified for admission to a degree program because their English proficiency is limited may be admitted to the Haggerty Institute to study English as a Second Language (ESL) for one or more semesters while they acquire a level of proficiency in English considered adequate for successful participation in a full-time academic program. The Haggerty Institute provides English language training at four levels, elementary, intermediate, advanced and English for academic purposes for both full-time and part-time students. In addition to instruction in all skill areas (listening, speaking, reading, writing and grammar), the program also includes cultural activities, tutoring, computer assisted language learning and language lab. With the permission of the Director, advanced and academic purposes level students may take academic courses while enrolled in the Haggerty Institute. However, enrollment in the Haggerty Institute does not constitute admission to the College.

Non-native English speakers who are admitted to the College will be tested to assess their English proficiency upon arrival. While some students may not be required to take any English as a Second Language courses, others may require one or more semesters to complete their ESL requirements. Furthermore, students enrolled in ESL classes are limited to a semester workload of 15 units.

Course Descriptions

42011 ESL Elementary Grammar (0)

A single skill module for beginning English as a Second Language students. Language structures appropriate to the students' level and needs will be introduced and practiced in communicative situations. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by exam. Prerequisite: PI.

42021 ESL Intermediate Grammar (0)

A single skill module for ESL students with some English language proficiency as assessed by the ESL placement battery. Language structures appropriate to the students' level and needs will be analyzed and practiced in communicative contexts. The module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Prerequisite: PI.

42022 ESL Intermediate Reading and Writing (0)

An integrated skills course for ESL students with some English language proficiency. Topics for written interpersonal communication as well as those related to academic disciplines will be addressed. This module will be combined with others for form a complete program of language acquisition based on the students' assessed needs. Placement by exam. Prerequisite: PI.

42023 ESL Intermediate Listening and Speaking (0)

An integrated oral/aural communication skills course for ESL students with some language proficiency. Topics for spoken interpersonal communication as well as those related to academic disciplines will be addressed. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by examination. Prerequisite: PI.

42024 ESL Intermediate Current Events (0)

An integrated skills course for ESL students with some English language proficiency. With the assistance of educational technology, including audio and visual equipment, students will strengthen the skills being developed in their other ESL classes. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by examination. Prerequisite: PI.

42031 ESL Advanced Grammar (0)

A single skill module for ESL students with considerable English language proficiency as assessed by the ESL placement test battery. Language structures appropriate to the students' level and needs will be analyzed and practiced through a variety of exercised reflective of authentic usage in various settings. Prerequisite: PI.

42032 ESL Advanced Reading and Writing (0)

An integrated skills course for ESL students with considerable English language proficiency as assessed by the ESL placement test battery. This course will concentrate on developing the reading and writing skills necessary for participating in college-level academic classes. Prerequisite: PI. Co-requisite: 42033.

42033 ESL Advanced Listening and Speaking (0)

An integrated oral/aural communication skills course for ESL students with considerable language proficiency as assessed by the ESL placement test battery. This course will concentrate on developing the listening and speaking skills necessary for participating in college-level academic classes. Prerequisite: PI. Co-requisite: 42032.

42034 ESL Advanced Current Events (0)

An integrated skills course for ESL students with considerable English language proficiency. With the assistance of educational technology, including audio and video equipment, students will strengthen the language skills being developed in their other ESL and academic classes. Placement by examination. Prerequisite: PI.

School of Fine and Performing Arts

Phone: (845) 257-3830

Location: Fine Arts Building Room 225

Web Address: www.newpaltz.edu/fpa

All applicants to the New Paltz art program are required to submit a portfolio of work directly to the Art Department prior to, concurrently with or after application to the college itself. Early submission of portfolios is strongly encouraged. Students who submit portfolios prior to application to the college are reminded that an accepted portfolio *DOES NOT* comprise application or admission to the college, which is an entirely separate procedure. Students entering the art program are placed according to the strengths of their artistic capabilities, as demonstrated by the proficiency and promise of work included in portfolios. Each portfolio must include a completed Portfolio Submission Form, which is attached to the descriptive document "*PLACEMENT IN THE NEW PALTZ UNDERGRADUATE ART PROGRAM*," and is available from the Admissions Office.

FRESHMAN APPLICANTS may include recommendations by teachers. *TRANSFER APPLICANTS* to the art program receive, in addition to non-major credit, major credit for course work whose content is commensurate with New Paltz art studio courses, and for which a grade of "B" or higher is recorded. Transcripts of previous college work should be submitted directly to the Admissions Office. Additionally, a separate set of transcripts *MUST BE ENCLOSED IN ALL PORTFOLIOS* submitted by transfer students. Failure to include the transcript(s) will delay consideration of transfer credit until the transcript is received by the Art Studio Department. Unofficial photocopies of transcripts are acceptable to the Art Studio Department.

Art major credit for required freshman foundation year courses is determined by portfolio committee on the basis of a transcript, up to a maximum of 12 credits. The faculty of the appropriate studio discipline, for which pre-registration consultation is strongly recommended, determines Art major credits above that number. At such consultations, applicants are expected to show at the very least five examples of work produced in each course for which transfer credit is being sought. Some areas, such as photography, strongly recommend more examples, up to 15.

Additional information is contained in the document "*PLACEMENT IN THE NEW PALTZ UNDERGRADUATE ART PROGRAM*," described above.

Majors in Fine Arts

Bachelor of Fine Arts

81-85 credits

NOTE: Students who are interested in pursuing a Bachelor of Fine Arts degree in a studio option, must present their work to the program faculty. This internal review process is in addition to the portfolio review required for admission to the Art Department. The BFA reviews are held in each studio option near the conclusion of each semester.

Required foundation courses.....15 credits

- 09100 Drawing: Visual Thinking 1 (3)
- 09101 Drawing: Visual Thinking 2 (3)
- 09102 Integrated Design 1: Space and Form (3)

- 09103 Integrated Design 2: Forces (3)
- 09112 Art Seminar (3)

Liberal arts requirement.....45-55 credits

Each major candidate must complete 45-55 liberal arts credits that include 12 credits of art history and 3 credits of senior seminar.

Art history courses.....12 credits

- 11201 Art of the Western World I (3)
- 11202 Art of the Western World II (3)
- 11358 Early Twentieth-Century Art (3)
- OR
- 11359 Art of the Later Twentieth Century (3)
- 113XX Art History or Theory Elective (3)

Senior Art Seminar..... 3 credits

- 09490 Senior Art Seminar (3)

One of the programs below.....54-55 credits

Ceramics Major:

Required option courses.....27 credits

- 09210 Basic Ceramics (3)
- 09314 Ceramics Materials (3)
- 09315 Ceramics (total) (9)
- 09318 Ceramic Sculpture (3)
- 09416 Design and Production (3)
- 09411 Senior Studio in Ceramics I (3)
- 09412 Senior Studio in Ceramics II (3)

Required cognate courses.....12 credits

- 09220 Basic Metal (3)
- 09240 Basic Painting (3)
- 09270 Basic Sculpture (3)
- 09301 Drawing (3)
- OR
- 09343 Intermediate Painting (3)

Studio electives.....12 credits

Metal Major:

Required program courses.....28 credits

- 09220 Basic Metal (3)
- 09321 Construction and Fabrication (3)
- 09322 Processes and Experimental Techniques I (3)
- 09323 Processes and Experimental Techniques II (3)
- 09324 Enameling (3)

- 09326 Metal Forming (3)
- 09420 Contemporary Ideas in Metal (4)
- 09421 Senior Studio in Metal I (3)
- 09422 Senior Studio in Metal II (3)

Required cognate courses..... 6 credits

- Any 200- or 300-level Studio Course (Two-Dimensional) (3)
- Any 200- or 300-level Studio Course (Three-Dimensional) (3)

Studio electives.....21 credits

Graphic Design Major:

Required program courses.....33 credits

- 09205 Computer-Aided Graphic Design (3)
- 09306 Visible Systems (3)
- 09307 Typography (3)
- 09308 Digital Photographic Imaging (3)
- 09309 Printed Books (3)
- 09310 Visual Language I (3)
- 09311 Graphic Design Applications (3)
- 09405 Graphic Design Ideas (3)
- 09406 Visual Language II (3)
- 09407 Graphic Design Thesis I (3)
- 09408 Graphic Design Thesis II (3)

Required cognate courses..... 6 credits

- 09250 Basic Photography (3)
- 09266 Basic Printmaking (3)

Studio electives.....12 credits

Painting/Drawing Major:

Required program courses.....33 credits

- 09240 Basic Painting (3)
- 09301 Intermediate Drawing: Fig. & Natural Forms (3)
- 09301 Intermediate Drawing: Thematic Development (3)
- 09305 Advanced Drawing (3)
- 09305 Advanced Drawing (3)
- OR
- 09400 Drawing Projects (3)
- 09343 Intermediate Painting (3)
- OR
- 09343 Intermediate Painting (3)
- 09344 Water Media/Collage (3)
- OR
- 09345 Advanced Painting (3)
- 09345 Advanced Painting (3)

- 09403 Contemporary Ideas in Painting (3)
- 09441 Senior Studio in Painting/Drawing I (3)
- 09442 Senior Studio in Painting/Drawing II (3)

Required cognate courses..... 6 credits

- 09XXX Any 200 or 300-level studio, 2-dimensional (outside of Painting/Drawing) (3)
- 09XXX Any 200 or 300-level studio, 3-dimensional (3)

Studio electives.....12 credits

Photography Major

Required option courses.....33 credits

- 09250 Basic Photography (3)
- 09308 Digital Photographic Imaging (3)
- 09331 The Photograph in Context (3) -- May be repeated for credit.
- 09332 The Large Format Image (3) -- May be repeated for credit.
- 09333 Photographic Print Workshop (3)
- 09334 Time-Based Projects (3) -- May be repeated for credit.
- 09350 The Constructed Image (3)
- 09450 The Document (3) -- May be repeated for credit.
- 09451 Contemporary Ideas (3) -- May be repeated for credit.
- 09452 Senior Studio in Photography I (3)
- 09453 Senior Studio in Photography II (3)

Required cognate courses..... 6 credits

- 09205 Computer-Aided Graphic Design (3)
- 09266 Basic Printmaking (3)

Studio electives.....12 credits

Printmaking Major

Required program courses.....33 credits

- 09280 Basic Printmaking (total) (3)
- 09380 Photo Silkscreen (3)
- 09385 Printmaking (total) (12)
- 09480 Senior Studio in Printmaking I (3)
- 09481 Senior Studio in Printmaking II (3)
- 094XX Printmaking (total) (9)

Studio electives.....18 credits

Sculpture Major

Required program courses.....27 credits

- 09270 Basic Sculpture (3)
- 09375 Sculpture (total) (18)
- 09471 Senior Studio in Sculpture I (3)
- 09472 Senior Studio in Sculpture II (3)

Required cognate courses..... 9 credits

- 09210 Basic Ceramics (3)
- 09220 Basic Metal (3)
- 09240 Basic Painting (3)

Studio electives.....15 credits

Visual Arts

Bachelor of Arts and Bachelor of Science

48 credits

Required foundation courses.....15 credits

- 09100 Drawing: Visual Thinking 1 (3)
- 09101 Drawing: Visual Thinking 2 (3)
- 09102 Integrated Design 1: Space and Form (3)
- 09103 Integrated Design 2: Forces (3)
- 09112 Art Seminar (3)

Liberal arts requirement.....60-90 credits

- Bachelor of Arts 90 credits
- Bachelor of Science 60 credits

Each major candidate must complete 60-90 liberal arts credits that include 18 credits of art history or art theory.

200-300 level studio courses.....18 credits

Any combination of basic 200-level studio courses (maximum of 5 courses) plus 300-level studio courses for a total of 18 credits. The 200-level course prerequisite must be met before any 300-level course may be taken.

Required liberal arts cognate courses.....18 credits

- 11201 Art of the Western World I (3)
- 11202 Art of the Western World II (3)

Any 4 300-500-level art history or art theory courses for a total of 12 credits.

Additional Requirements for Bachelor of Science in Visual Arts:

In addition to the above 48 credits required, students entering the B.S. in Visual Arts program are urged to obtain early advice on selecting 15 additional non-liberal arts credits (which may include courses in art studio, music, theatre arts, education, business and computer sciences) in order to organize an individual program in the best possible way.

Minor in Art Studio

18 credits

Acceptance Requirements:

Completion of 30 college credits with proof of minimum grade point average of 2.50 and approval of the Art Studio Department Chair.

The Art Studio Minor is available only to non-Art Studio Majors.

Course Sequence:

09105 Introduction to Drawing and Design is required of all minors and is prerequisite to courses in categories B and C. A course from category B must be taken in advance of or concurrently with category C courses.

Program Requirements:

Successful completion of 18 credits from the following categories:

A. 3-6 Credits from the following courses:

- 09105 Introduction to Drawing and Design I (3)
- 09110 Introduction to Ceramics (3)
- 09120 Introduction to Metal (3)
- 09150 Introduction to Photography (3)
- 09160 Introduction to Printmaking (3)
- 09170 Introduction to Sculpture (3)

B. 3-6 Credits from the following courses:

- 09102 Integrated Design 1: Space and Form (3)
- 09103 Integrated Design 2: Forces (3)

C. 6-12 Credits from the following courses:

- 09100 Drawing: Visual Thinking 1 (3)
- 09101 Drawing: Visual Thinking 2 (3)
- 09205 Computer-Aided Design (3)
- 09210 Basic Ceramics (3)
- 09220 Basic Metal (3)
- 09240 Basic Painting (3)
- 09250 Basic Photography (3)
- 09270 Basic Sculpture (3)
- 09280 Basic Printmaking (3)

Should students favor pursuing advanced level courses in any of the above areas, they may enroll with permission of instructor and the chair after satisfactory completion of the basic course.

Liberal Arts Designation

The following courses count toward the liberal arts requirement: 09105, 09110, 09120, 09150, 09160, 09170.

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

Course Descriptions:

09100 Drawing: Visual Thinking I (3)

This course is designed to present two basic attitudes towards drawing — first, that of drawing as preparation for larger works or ideas, and second, that of drawing as an end in itself. Prerequisite: Art

major.

09101 Drawing: Visual Thinking II (3)

Drawing: Visual Thinking II will build conceptually on Drawing: Visual Thinking I, but will place greater emphasis on experimental processes, independent problem solving, and the development of a personal vocabulary. Prerequisite: 09100 and art major.

09102 Integrated Design I: Space and Form (3)

Integrated Design I: Space and Form combines two and three-dimensional approaches to the concepts of space/scale, site/context, and color/light. Prerequisite: Art major.

09103 Integrated Design II: Forces (3)

This course combines three and four-dimensional (kinetic) approaches to the concepts of time/movement, gravity/weight, and process/materials. Prerequisite: Art major. MPL3 for GE2 students.

09105 Introduction to Drawing and Design I (3)

Specifically oriented for students who have had little or no formal art instruction, this course offers assistance in the development of artistic potential. Problems in drawing, painting and design using a variety of processes and materials. No previous art experience required. Prerequisite: Non-art major.

09110 Introduction to Ceramics (3)

Introduction to basic concepts, tools and methods to form, glaze, decorate and fire pottery and ceramics. Prerequisite: Non-art major.

09112 Art Seminar (3)

Art Seminar is a series of discussions and workshops. Through dialogue, writing, and independent projects students develop connections between critical thinking and their art studio work. Prerequisite: Art or pre-Art Education major.

09120 Introduction to Metal (3)

Introduction to the basic concepts, design and execution of jewelry and objects in a variety of metals requiring different techniques. Prerequisite: Non-art major.

09140 Introduction to Painting (3)

Basic course in the use of materials, organizational concepts in painting (use of light, value and color). Prerequisite: Non-art major.

09150 Introduction to Photography (3)

Introduction to black and white photographic concepts, the use of the camera, film types, processes and techniques. Prerequisite: Non-art major.

09160 Introduction to Printmaking (3)

Survey of studio experience covering basic printmaking processes. Prerequisite: Non-art major.

09170 Introduction to Sculpture (3)

Introduction to sculptural processes involving the use of tools, materials, fabrication techniques and organization of forms in space. Prerequisite: Non-art major.

09202 Color (3)

Explores the phenomena of color in their various manifestations including color as conceptual structure and as perceptual experience. Course work consists of lectures, discussions, presentations and studio projects in collage and water-based painting media. Prerequisite: Sophomore or higher standing in any of the major programs in art and theatre within the School of Fine and Performing Arts and PI and PC.

09205 Computer Aided Graphic Design (3)

Ghost in the Machine. An investigation of digital media; its application to and implications for Graphic Design. Prerequisite: 09100, 09101, 09102, 09103.

09210 Basic Ceramics (3)

Forming, glazing, decorating, and firing of pottery and ceramics. Sculptural possibilities of ceramics. An overview of ceramic history and contemporary work is researched and discussed. Prerequisite: 9100, 09101, 09102, 09103.

09220 Basic Metal (3)

Introduction to the broad range of materials, techniques and formats characteristic of metal art. Prerequisite: 09100, 09101, 09102, 09103.

09240 Basic Painting (3)

Introduction to the principal concepts, materials, and techniques of painting, with primary emphasis on painting from observation. Prerequisite: 09100, 09101, 09102, 09103.

09250 Basic Photography (3)

Introduction to techniques and concepts in photography as a visual language, including camera use, film and print processing and presentation. Creative uses and contemporary issues of ethics, semiotics and critical methodology are discussed. Students must have a 35mm camera. Prerequisite: 09100, 09101, 09102, 09103.

09260 Basic Wood Design (3)

Exploration of the distinctive characteristics and artistic possibilities of wood, utilizing the techniques of shaping and joining. Prerequisite: 09100, 09101, 09102, 09103.

09270 Basic Sculpture (3)

Introduction to the spatial concepts, materials and techniques utilized in sculpture. Prerequisite: 09100, 09101, 09102, 09103.

09280 Basic Printmaking (3)

Introduction to the printmaking processes in relief, intaglio, and lithograph. Historical development of each medium. Prerequisite: 09100, 09101, 09102, 09103.

09301 Intermediate Drawing (3)

Emphasis on continued development of observational drawing skills in general and topically focused sections. Introduction to a variety of drawing media and techniques and personal approaches to image development. May be repeated for credit. Prerequisite: 09100, 09101, 09102, 09103, or PI.

09305 Advanced Drawing (3)

Problems in drawing in all media, encompassing traditional and experimental concepts, techniques and approaches to image development. May be repeated for credit. Prerequisite: 09100, 09101, 09102, 09103 or PI.

09306 Visible Systems (3)

A hands-on historically-based exploration of the form and origins of written language. Students will work through a range of mark making processes including calligraphic and inscriptional lettering. May be repeated for credit. Prerequisite: 09100, 09101, 09102, 09103.

09307 Typography (3)

Writing Without a Pen. Covers technical, formal, and expressive aspects of type, the designer's primary vehicle for visual communications. May be repeated for credit. Prerequisite: 09205.

09308 Digital Photographic Imaging (3)

Techniques used in creating and manipulating photography in a digital environment are explored, including input methods, image quality, resolution, montage, and output techniques. The class also addresses how the meaning of photographs may be constructed or altered, issues of representation and veracity in digital photography, and questions of appropriation and authorship. Prerequisite: PI and 09205, 09250.

09309 Printed Books (3)

A hands-on involvement in producing books that contain sustained texts. Topics include book structures, sequential readings, materials and meanings, etc. Prerequisite: PI and 09280, 09307.

09310 Visual Language I (3)

An in-depth inquiry into a particular aspect of visual language. Topics vary each time the course is offered. May be repeated for credit. Prerequisite: PI and 09307.

09311 Graphic Design Applications (3)

Design applications combine studio and practical work. It is an opportunity for students to exercise design skills in a practical setting, with critiques and discussions of projects with faculty and peers. May be repeated for credit. Prerequisite: PI and 09307.

09314 Ceramic Materials (3)

Exploration and research with the nature and methodology of the materials used in ceramics. Prerequisite: 09210.

09315 Ceramics (3)

Concepts and techniques of ceramic fabrication, design, and theory are taught. Various hand and wheel production techniques, history, and firing methods are explored. May be repeated for credit. Prerequisite: 09210.

09318 Ceramic Sculpture (3)

Sculpture and architecturally oriented forms using clay as the medium and vehicle of expression. History and concepts explored. Prerequisite: 09210 and 09270.

09321 Construction and Fabrication (3)

Methods related to building with sheet metal; soldering and welding techniques, as well as mechanical connections. May be repeated for credit. Prerequisite: PI and 09220.

09322 Processes and Experimental Techniques I (3)

Exploration of non-traditional metal techniques, including electroforming and surface treatments. May be repeated for credit. Prerequisite: PI and 09220, 09321.

09323 Processes and Experimental Techniques II (3)

Continuation of 09322. Advanced level study involving casting and mold making. May be repeated for credit. Prerequisite: PI and 09220, 09321.

09324 Enameling (3)

The study of various enameling processes and formats including: Limoges, champleve, cloisonne, and basse taille methods. Prerequisite: PI and 09220.

09326 Metal Forming (3)

The use and application of metal forming techniques; including raising, forging, and die-forming. May be repeated for credit. Prerequisite: PI and 09220, 09321.

09331 The Photograph in Context (3)

This course investigates photography in relation to larger contexts and explores private and public space through juxtaposition, sequence and site. Varied photographic and mixed media techniques are used in artists' books, constructions, installations, and site-specific works. Prerequisite: 09250.

09332 The Large Format Image (3)

The course introduces the view camera and traditional photographic values. Techniques include camera controls, Zone System, fine printing in b/w and printing with hand applied emulsions. Traditional and innovative uses of the view camera are explored through student projects and the study of historical and contemporary examples. Cameras are provided. May be repeated for credit in color. Prerequisite: 09250; recommended 09350.

09333 Photographic Print Workshop (3)

This course focuses on printing techniques, technical research and experimentation in creative work, including printing color from negatives and digital files, experimental b/w processes and printing on non-traditional surfaces. Emphasis is on experience with a variety of materials, understanding technique and experimentation. Prerequisite: 09250.

09334 Time-Based Projects (3)

Investigates visual communication through the use of photographic images in time-based formats, utilizing slide projections, multimedia computer works and web sites. Issues addressed include linear and non-linear narrative structures, pacing, and the development of meaning through layering, narrative progression, repetition and sound. May be repeated for credit. Prerequisite: 09250, 09308.

09343 Intermediate Painting (3)

Further development of technical painting skills with emphasis on more complex treatments of color, form, and pictorial space. Introduction to a range of creative approaches to image development. May be

repeated for credit. Prerequisite: 09240.

09344 Water Media/Collage (3)

Watercolor, inks, goache, polymers, and/or collage materials may be explored separately or in combination, using a variety of subject matter. May be repeated for credit. Prerequisite: 09240.

09345 Advanced Painting (3)

Advanced-level study with emphasis on contemporary approaches to content, format, materials, and imagery. Changing topically-focused sections and challenging projects encourage development of a personal idiom. May be repeated for credit. Prerequisite: 09240, 09343.

09350 The Constructed Image (3)

Introduces the student to photographic lighting and the creation of constructed images. Techniques studied include studio lighting with hot lights, studio strobes, on-camera flash, specific lighting problems and close-ups. Creating set-ups and the construction of images are explored through projects investigating still-life, portraiture, tableau and illusion. May be repeated for credit. Prerequisite: 09250.

09361 Wood Design and Techniques (3)

Exploration of wood and its aesthetic potential using advanced techniques of shaping, joining, and finishing as related to design concepts: research and development of furniture forms, their function, fabrication, and relationship to interior spaces. May be repeated for credit. Prerequisite: PI or 09260.

09370 Book Arts (3)

Book Arts is an interdisciplinary course, designed to introduce students to the concepts and techniques used in making artists' books. Topics to be explored include the visualization of ideas in book form, the book as a physical object, the use of a variety of materials and forms, narrative progression, and combining text and images. Traditional book formats and binding techniques will be taught, but emphasis will be on innovative uses of the book as a vehicle for ideas. Prerequisite: PI or Art Studio major, junior or senior.

09375 Sculpture (3)

Problems in sculpture, fundamental problems in spatial concepts with instruction in varied material and techniques. Non-sequential courses are taught in specialized sections as needed: concentration on carving, construction, life-modeling, terra cotta, welding and brazing, foundry practice, and new media such as plastics and associated technologies. May be repeated for credit. Prerequisite: 09270.

09380 Photo Silkscreen (3)

The course will explore one of the most versatile of printmaking techniques, silkscreen. An emphasis will be placed on photo stencils, multi-color prints, registration, screen construction, all manner of mark making on screen, up scaling of digital imagery, editioning of prints, translation of images on to non-traditional supports. All materials will be water-soluble and non-toxic. The course may be repeated for credit. Prerequisite: 09280.

09381 Monotype Printmaking (3)

The course explores monotype the painterly print. Monotype is an exciting printmaking medium which involves painting, drawing and printmaking. Unique one of a kind images are developed using a variety of traditional, contemporary and innovative approaches. Prerequisite: 09100, 09101, 09102, 09103,

09385 Printmaking (3)

This course will explore the advanced techniques of hand drawn, photo, and/or digital lithography, intaglio, and relief, as well as monotype. Students may develop ideas in black and white and/or color. May be repeated for credit. Prerequisite: 09280.

09400 Drawing Projects (3)

Allows students with considerable drawing experience to focus on specific issues, topics or problems in depth. Emphasis on sustained development of bodies of related works, and their critical assessment in a contemporary context. May be repeated for credit. Prerequisite: Two 300-level drawing courses or PI.

09403 Contemporary Ideas in Painting (3)

Exploration of concerns in contemporary painting with emphasis on individual projects. Senior studio preparation. May be repeated for credit. Prerequisite: PI and two 300-level painting classes.

09405 Design Theory and Criticism (3)

This course focuses on the application of semiotics and critical theory to Graphic Design Practice. Classes are split between discussions of ideas, issues, and theory, and critiques of studio projects. May be repeated for credit. Prerequisite: PI or junior.

09406 Visual Language II (3)

An inquiry into advanced topics in design, emphasis on technological innovation, new ways of structuring and reading information. May be repeated for credit. Prerequisite: PI and 09307.

09407, 09408 Graphic Design Thesis I, II (3 each)

The design thesis is a focused exploration of a design idea or area. Students pursue their idea both verbally and visually. Their investigation positions students relative to conventional and contemporary practice. Both visuals and text are formally presented to the design program at the completion of the project. Prerequisite: PI and senior B.F.A. candidate.

09411, 09412 Senior Studio in Ceramics I, II (3 each)

Independent thesis study. Senior student researches and prepares a body of work for exhibition that is independent of any other course work and is reviewed by the ceramics faculty. Prerequisite: PI and senior B.F.A. candidate.

09416 Design and Production (3)

Students explore, through studio practice, technical and design concepts as they relate to multiple production problems. Course will include field experience where possible. Prerequisite: 09314.

09420 Contemporary Ideas in Metal (4)

Investigation of specific issues and ideas in metal. Critical evaluation of student's work in contemporary culture; Sr. Studio preparation. May be repeated for credit. Prerequisite: PI and 09220, 09321, 09322, 09323.

09421, 09422 Senior Studio in Metal I, II (3 each)

Student researches and creates a major body of work for exhibition that is reviewed by the metal faculty. Prerequisite: PI and B.F.A. candidate, fifteen credits in metal courses.

09441, 09442 Senior Studio in Painting I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work for exhibition. Prerequisite: PI and senior B.F.A. candidate.

09450 The Document (3)

Unmanipulated photography used for the communication of ideas about social issues and human conditions. Each student completes a major documentary project. Historic and contemporary issues and working strategies are explored through the work and writings of contemporary photographers and critics. May be repeated for credit. Prerequisite: 09250 and 09333.

09451 Contemporary Issues (3)

This course explores significant contemporary issues and critical viewpoints in photography. While specific content may vary, some topics might include the roles photography plays in politics and activism, advertising and consumerism, ethnic and sexual identity, and the documentation of family and personal life. The course is structured around readings, discussion and development of a major individual project. May be repeated for credit. Prerequisite: 09250 and 09333.

09452, 09453 Senior Studio in Photography I, II (3 each)

The final courses for completion of the BFA. A two-semester sequence, structured as an independent study, with weekly meetings held with one of the photography professors. The course is completed with an exhibition of the project, a paper, and slides. Prerequisite: PI and BFA major, completion of all other photography courses.

09471, 09472 Senior Studio in Sculpture I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work, for exhibition. Prerequisite: PI and senior BFA candidate.

09480, 09481 Senior Studio in Printmaking I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work, for exhibition. Prerequisite: PI and senior BFA candidate.

09490 Senior Art Seminar (3)

Required of all senior level BFA candidates and available as an elective to senior level BS and BA candidates as well as graduate students. The seminar explores the theoretical and practical issues that influence the art world and careers of artists. Organized on a topical basis, the course provides a link between theory and practice, school and the art and design professions. Prerequisite: PI for senior BFA/BS/BA in Art Studio.

Art Education

Phone: (845) 257-3850

Location: Smiley Art Building Room 204

The undergraduate program for art education provides a curriculum leading to the Bachelor of Science degree in Art Education. The curriculum plan includes course work in studio art, art criticism, art history, art education, and general education. Upon successful completion of the baccalaureate

program, students are eligible for New York State initial certification to teach art in the public schools. (For additional information about student teaching and certification, see the section on Teacher Education Programs in the front of this catalog.) Prerequisites to this major include acceptance to the Art Studio program and a cumulative grade point average of 2.75. To declare a major or pre-major in art education, applications are available in the art education office.

Major in Art Education
Bachelor of Science

82 credits

Art Education Requirements.....30 credits

- 10190 Foundations of Art (3)
- 10191 Field Observations in Art Education (1)
- 10200 Art Criticism (3)
- 10302 Curriculum and Instruction (3)
- 10303 Theory and Practice (3)
- 10305 Art for the Exceptional Child (3)
- 10391 Field Assistantship in Art Education (1)
- 10392 Internship in Art Education (1)
- 10405 Student Teaching in Art Pre-K-6 (6)
- 10406 Student Teaching in Art 7-12 (6)

Art Studio Requirement.....12 credits

- 09100 Drawing: Visual Thinking 1 (3)
- 09101 Drawing: Visual Thinking 2 (3)
- 09102 Integrated Design 1: Space and Form (3)
- 09103 Integrated Design 2: Forces (3)

Art History Requirement.....9-12 credits

- 11201 Art of the Western World I (3)
- 11202 Art of the Western World II (3)

Each major candidate is required to take three - six additional hours of upper-division art history credit under advisement by art education faculty.

Education Requirement..... 6 credits

Each major candidate is required to take six hours of courses offered by the Faculty of Education under advisement by art education faculty.

Required Art Studio or Art Education Electives.....24-30 credits

15-18 credits demonstrating breadth of two-dimensional and three-dimensional processes selected under advisement by art education faculty from the following:

- | | |
|-------------------------------|----------------|
| Art Education Selected Topics | Sculpture |
| Painting | Ceramics |
| Photography | Graphic Design |
| Printmaking | Metals |

In addition, 9-12 upper-division credits in one studio area are required.

Each major candidate must complete a minimum of 48 liberal arts credits as well as a minimum of 45 upper-division credits.

Liberal Arts Designation

The following courses count toward the liberal arts requirement: 10190, 10200, 11201, 11202.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

10190 Foundations of Art Education (3)

An introduction to the roles of art and art education in the United States through a survey of past and present philosophical, cultural and sociological influences. Examination of school art programs and studio materials and processes in pre-K through secondary settings. Prerequisite: PI.

10191 Field Observations in Art Education (1)

In this course, students will visit classrooms in area schools to examine teaching/learning environments, observe instructional strategies, and document student learning. The course fulfills 35 hours of New York State's 100-hour pre-student teaching fieldwork requirement for teaching certification. The course must be taken concurrently with 10190, Foundations of Art Education. Prerequisite: PI; co-requisite: 10190.

10200 Art Criticism (3)

Examination of problems in the description, analysis, interpretation, and evaluation of art. Focus on developing writing, reading and verbal interpretive skills for educational contexts. Attention is given to the history, purposes, theoretical bases, and techniques of criticism as well as to critical performance and evaluation. Prerequisite: PI.

10302 Curriculum and Instruction (3)

Design and evaluation of curriculum, instructional strategies and technologies, and rationales for teaching art in pre-K through secondary settings. Examination of artistic and literacy development in children and adolescents. Prerequisite: PI; co-requisite: 10391.

10303 Theory and Practice (3)

A focus on the development of professional foundations for teaching art. Content includes critical review of related literature, instructional approaches and planning, assessment of student learning, classroom organization and examination of child/adolescent art. Prerequisite: PI and 10302; co-requisite: 10392.

10305 Art for the Exceptional Child (3)

This course provides an overview of special populations: the thirteen classifications of disabilities and their characteristics. Behavior, management, and other considerations that the art teacher needs to be aware of in both the mainstreamed and self-contained classroom are discussed and researched. Lesson plans that address the important issues of these disabilities are explored. In addition, students conduct their own lessons at BOCES middle and high schools twice a semester.

10308 Art of Necessity (3)

This course investigates the multiple ways painting provides healing for those who have sustained brain and spinal cord injury. The course provides in-depth understanding of how art functions in healthcare settings. Students will do an internship with Bill Richards, art studio director of the Northeastern Center for Special Care facility. Bi-weekly seminars and research will be taught on campus. The purpose of the

course is to gain a non-theoretical understanding of this newly expanding field through direct observation and interaction with patients.

10385 Workshop for Arts in Education (3)

The arts play an integral role in education in both formal (K-12 public school) and informal (museums, community) settings. Procedures and materials for effective teaching of art.

10391 Field Assistantship in Art Education (1)

Through assisting art teachers at various levels, students will engage in such instructional activities as preparation and organization of lesson materials and supplies, small-group instruction, and exhibition of student artwork in school. The course fulfills 35 hours of New York State's 100-hour pre-student teaching fieldwork for teaching certification. The course must be taken concurrently with 10302, Curriculum and Instruction in Art Education. Prerequisite: PI. Co-requisite: 10302

10392 Internship in Art Education (1)

In collaboration with a cooperating teacher, students will design and teach lessons for young people in area schools. The course fulfills 35 hours of New York State's 100-hour pre-student teaching fieldwork requirement for teaching certification. The course must be taken concurrently with 10303, Theory and Practice in Art Education. Prerequisite: PI; 10190, 10191, 10302, 10391; co-requisite: 10303.

10400 Theory of Art Education (3)

Examination of alternative concepts of art education, broad problems and practices in the field, curriculum goals, content and organization. Prerequisite: 10301 and 10302.

10405 Student Teaching in Art Pre-K-6 (6)

A full-time experience in the major areas of the art teachers' responsibility in the elementary school. A minimum of 30 hours per week for at least 8 weeks. Prerequisite: PC and completed curriculum plan, faculty recommendation, 2.75 cumulative grade point average.

10406 Student Teaching in Art 7-12 (6)

A full-time experience in the major areas of the art teachers' responsibility in the high school. A minimum of 30 hours per week for at least 8 weeks. Prerequisite: PC and completed curriculum plan, faculty recommendation, 2.75 cumulative grade point average.

Art History

Phone: (845) 257-3875

Location: Old Main Building Room 5

Web address: www.newpaltz.edu/arthistory

Art History Major

33 credits

Required courses..... 6 credits

11201 Art of the Western World I (3)

11202 Art of the Western World II (3)

Electives.....27 credits

Each major candidate must complete at least one course in each of the following six areas:

1. Classical art
2. Medieval art
3. Renaissance or Baroque art
4. Eighteenth- or Nineteenth-Century art
5. Twentieth-Century art
6. Asian art

Art History Minor

21 credits

These 21 credits may be distributed over a broad spectrum of art history courses through advisement, or may be a concentration of courses in one or more areas that relate to the student's major field and career goals. The required 7 art history courses must include at least 4 upper-division art history courses and at least 3 art courses not already used to satisfy the requirements of the student's major.

Honors Program in Art History

Art History majors pursuing a Bachelor of Arts degree are encouraged to apply for admission to the Art History Honors Program if they meet all the following criteria: a cumulative average in all course work at the college of 3.0 or above, an average in Art History course work at the college of 3.5 or above, and completion of 21 or more credits in Art History. Application must be made at the beginning of the last semester of the junior year.

Admission to the Honors Program will permit students to enroll in 11461 and 11462, Honors Thesis in Art History I and II (three credits each). Credit for 11461 will not be allowed unless 11462 is completed; only three of these six credits may be used toward completion of the 33-credit major.

Students admitted to the Honors Program will undertake independent study and write a thesis on a subject chosen by the student in consultation with the faculty, approved by the department chair, and supervised by the appropriate member of the faculty. Successful completion of the thesis -- indicated by a grade of B+ or better in 11461 and 11462 -- will result in the student graduating with honors in Art History, a distinction that will appear on the college transcript.

Questions regarding this Honors Program should be directed to the chair of the Art History Department.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork or internships, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

11200 Introduction to the Visual Arts (3)

Introduction to the visual language of art and architecture, formal artistic means, art historical and critical terms. Comparison of major art styles and periods in Western and non-Western art.

11201 Art of the Western World I (3)

Introductory survey of the history of Western art from the Paleolithic era to the end of the Middle Ages.

11202 Art of the Western World II (3)

Continuation of 11201. Renaissance to the present day.

11205 The History of Film I (3)

Historic development of film: the silent classics from the early works of Lumiere and Melies through the technical and ideological evolutions created by American, German, and Russian filmmakers.

11206 The History of Film II (3)

Historic development of film: tracing the growth of film from the expressive realism of the silents through the various aspects of film realism in the sound era including social realism, Italian neorealism, French new wave, genre, and personal (auteur) approaches.

11207 Film Aesthetics and Criticism I (3)

Aesthetic and critical functions of film within two primary structural models: film as illusion vs. film as reality. Critical references from numerous stances: formalist, psychological, symbolist, existential, sociological, semiotic.

11208 Film Aesthetics and Criticism II (3)

Continuation of 11207. Works of selected film critics. Film showing at each class. Prerequisite: 11207.

11340 The Arts of Early China (3)

Survey of Chinese art from neolithic times to around A.D. 900. Archaeology, mortuary and religious art and secular traditions will be included as well as the entrance of Buddhism and the beginnings of landscape painting.

11341 The Arts of Later China (3)

Survey of Chinese Art from the Tenth Century to the present including landscape painting, literati painting, garden art, calligraphy, and ceramics.

11342 The Arts of Japan (3)

Survey of Japanese art from neolithic times to the 19th century. Wide range of media, including ceramics, sculpture, painting, architecture, and calligraphy.

11356 Architecture of New York City (3)

The architectural history of the five boroughs from the earliest Dutch buildings of the 17th century to the most recent skyscrapers.

11357 American Art and Society 1900-1950 (3)

American painting and sculpture (with some reference to photography, architecture, and the decorative arts) from 1900 to 1950 as part of the fabric of American society.

11358 Early Twentieth-Century Art (3)

Major artists and artistic movements in Europe and Russia from the beginning of the century up to the outbreak of World War II.

11359 Art of the Later Twentieth Century (3)

Theory and criticism of developments in art since 1940 such as Abstract Expressionism, Pop, Op, Color Field, Minimal, Earth Art, Conceptual, Superrealism and Neo Expressionism. Prerequisite: PI or 11358.

11360 Arts of Asia I: The Formative Periods (3)

An introduction to the arts of China, India and Japan; the Neolithic Age through the seventh century. Origins of the individual cultures followed by the shared imagery of the Buddhist faith.

11361 Art of the Renaissance in Italy (3)

Architecture, sculpture and painting in Italy during the 15th and 16th centuries, with emphasis upon the Early and High Renaissance.

11362 Northern European Painting from Van Eyck to Bruegel (3)

Religious and secular painting in the Low Countries, France and Germany during the 15th and 16th centuries. Prerequisite: PI or one art history course.

11363 Early Medieval Art (3)

European art from the fall of the Roman Empire through the barbarian invasions and Carolingian Revival to the end of the Romanesque period.

11364 Later Medieval Art: Gothic (3)

The evolution of the Gothic style in architecture and sculpture in France during the 12th century. The iconography of programs in portal sculpture and stained glass. The dissemination of the Gothic style in Europe to the end of the 15th century. Prerequisite: 11201 or 11363.

11365 Early Greek Art (3)

Greek art from ca. 900 B.C. to the end of the Archaic period.

11366 Later Greek Art (3)

Focus on the art of the Classical and Hellenistic periods, 5th to 1st centuries B.C.

11367 The Art of Ancient Rome (3)

The art and architecture of the Roman Republic and Empire from the 1st century B.C. to the 4th century A.D.

11368 History of Photography (3)

A survey of the art and techniques of photography from the earliest forms in the 1840's. The mutual influences between photography and painting, especially in the nineteenth century. The development of cameras and films. The work of individual photographers and the language of criticism of photographs.

11369 History of Modern Design (3)

Ideas and influences that have shaped designed objects in the twentieth century with some emphasis on the rise of industrial design. In addition to furniture, ceramics, metalwork, glass, textiles, and graphics, other forms such as ships, automobiles, domestic appliances, office equipment and other industrial classic designs.

11370 Art of the Hudson Valley (3)

Survey of painting and architecture in the Hudson Valley from the Colonial period to 1940; some

references to sculpture and the decorative arts.

11371 Introduction to Nineteenth-Century Architecture (3)

The development of the picturesque eclectic building styles in Europe and America including Romantic Classicism, Renaissance, Gothic, Queen Anne, Romanesque and Colonial Revivals. Some examination also of the influence of technology on architecture. Prerequisite: PI or 11201 or 11202.

11372 Introduction to Twentieth-Century Architecture (3)

The development of new forms before World War II by theorists such as Wright, Gropius, Mies, and LeCorbusier. The dissemination of these ideas, especially in America during the 1950's. The antiformalist reaction of the 1960's. Contemporary Post-Modernism and eclecticism. Prerequisite: At least one previous art history course recommended.

11373 From Sketch to Masterwork (3)

The processes through which major painters and sculptors have developed their artistic concepts in various art media for painting, sculpture, prints, decorative objects and architecture from the preparatory sketches to the final work.

11374 Prints: Renaissance to Modern (3)

Various graphic media, such as the woodcut, engraving, etching and lithography, in both Western and Far Eastern art from antiquity to the present. Prerequisite: PI or one art history course.

11375 History of Decorative Arts (3)

From the general categories of furniture, metalwork, ceramics, glass, textiles and interior design, the instructor selects certain media and historical periods.

11376 Ink and Brush in China and Japan (3)

The painting styles of China and Japan with special reference to landscape painting, painting in the service of Buddhism, and the influence of Chinese painting on other Asian styles. Prerequisite: PI or one art history course.

11377 Indian Painting: the Mughal and Rajput Schools (3)

An overview of the major schools of north Indian painting from the 16th to the 19th centuries.

11378 Sacred Spaces, Divine Images (3)

The visual and philosophical dimensions of Indian art and architecture from about 2500 B.C. to A.D. 500.

11379 Ceramics of the Far East (3)

A survey of the major ceramic traditions of the Far East from Neolithic times to the early 19th century.

11380 Decorative Arts of Asia (3)

A survey of the ceramic, metal, lacquer, jade, ivory and textile arts of Asia.

11381 Arts of Asia II: The Continuing Tradition (3)

The arts of China, India and Japan; seventh century to the present. Hindu sculpture and architecture;

Chinese painting and ceramics; the imagery of Zen Buddhism; Asian responses to the West.

11382 American Art (3)

American architecture, painting, and sculpture from the Colonial period to the present.

11383 Baroque and Rococo Art (3)

Painting, sculpture and architecture in Italy, France, the Netherlands, Germany, England, and Spain, ca. 1600 to ca. 1750.

11384 Art of the Nineteenth Century (3)

Major directions in European art such as Neoclassicism, Romanticism, Academic art, the Pre-Raphaelites, Realism, and Impressionism.

11386 Art of Ancient Egypt (3)

Development of Egyptian art from the Pre-Dynastic Era through the end of the Late Period.

11387 Art of the Islamic World (3)

A survey of Islamic art in Persia, Syria, Egypt, North Africa, Spain, and India.

11388 Introduction to the Native Arts of Africa, Oceania & North America (3)

Traditional sculpture, painting, building and crafts of the indigenous peoples of Africa, the islands of the South Pacific, and North America.

11389 Art of Pre-Columbian America (3)

The art and architecture of ancient Mexico, Central America, Colombia, Ecuador, and Peru before the Spanish conquest.

11390 Italian Renaissance Painting (3)

Painting from the early 15th through the mid-16th century in central Italy, especially Florence and Rome, and in Venice and other northern centers, covering the Early and High Renaissance and Mannerism. Prerequisite: PI or one art history course

11391 Baroque Painting (3)

The development of the national schools of painting in Italy, the Low Countries, Spain, France, and England in the seventeenth and eighteenth centuries. Prerequisite: PI or one art history course.

11392 Japanese Prints (3)

An overview of the major Japanese print artists and genres from the 17th to the 19th centuries.

11401 Art of the Ancient Near East (3)

The art and architecture of Asia Minor, Mesopotamia, and Iran from the Neolithic era to the Achaemenian Persian Empire studied in relation to myth, religion and social structure.

11410 Art of the Byzantine Empire (3)

This course examines selected topics in the Byzantine art from its foundations in the art of the early Christians to its final flowering under the Palaeologan dynasty.

11440 Italian Art of the Sixteenth Century (3)

Italian painting, sculpture and architecture of the High Renaissance through Late Mannerism: the works of major artists including Leonardo, Michelangelo, Raphael, Titian, and Tintoretto; the sculptors Cellini and Giovanni da Bologna; the architecture of Palladio. Prerequisite: PI or one art history course.

11442 Eighteenth-Century Arts (3)

The era from Louis XIV to Napoleon in painting, sculpture, architecture, and the decorative arts.

11444 Impressionism and Post-Impressionism (3)

Covers development of art in late 19th century France and various approaches represented by Manet, Renoir, Degas, Morisot, and others. Avant-garde movements in the wake of Impressionism includes discussion of Seurat, Van Gogh, Gauguin, and Cezanne. Prerequisite: PI or one art history course.

11450 History of Modern Drawing (3)

Drawings using various materials and techniques by painters and sculptors of the 19th and 20th centuries: e.g., Ingres, Degas, Toulouse-Lautrec, Rodin, Picasso, Matisse and other more recent artists.

11451 Introduction to Museum Studies (3)

Historical development of art museums and their function, including the related fields of public art education, arts administration, art conservation, etc. Career options in the field. Prerequisite: PI or one art history course.

11461 Honors Thesis in Art History I (3)

Independent study and writing of a thesis under faculty supervision on a topic selected by the student in consultation with the faculty. Open to qualified Art History majors who have been admitted to the Art History honors program. Credit for 11461 is not allowed unless 11462 is completed. Prerequisite: PC.

11462 Honors Thesis in Art History II (3)

Continuation of 11461. Prerequisite: PC and 11461.

Music

Phone: (845) 257-2700

Location: College Hall G Room 100

Major in Music

60-61 credits

Required courses for all Music majors except Music Therapy and Jazz Studies.....39 credits

66141-145 Participation in Major Music Organization (4 semesters) (8)*+

66150 Concert Series Attendance (8 semesters) (0)

66XXX 3 semesters of Piano (6)**

66203 Theory I (3)

66204 Theory II (3)

66231 Sight Singing and Ear Training I (1)

66232 Sight Singing and Ear Training II (1)

66303 Theory III (3)

66320 Keyboard Harmony (2)

66331 Music of the Middle Ages and Renaissance (3)

- 66332 Music of the Baroque and Classical Periods (3)
- 66333 Music of the Romantic and Contemporary Periods (3)
- 66364 Form and Analysis (3)

* *Any credits in excess of 8 can be used to fulfill music elective requirements. A minimum of three semesters of ensemble participation must be taken in residence.*

** *Piano I, II, III.*

+ *Minimum -- must be taken every semester in residence.*

One of the concentrations below:

21-24 credits

Music History and Literature

Required courses.....21 credits

- 66221-222 Applied Music (begins in Sophomore year) (4)
- 66365 Instrumentation (3)
- 66366 Counterpoint (3)
- 66430 Bibliographic Research in Music (3)
- 66490 Senior Project (0)
- Electives in Music (8)

Performance

Required courses.....22 credits

- 66221-422 Applied Music (8 semesters) (16)
- 66483 Senior Recital (0)
- Electives in Music (6)

Music Theory and Composition

Required courses.....21 credits

- 66221-222 Applied Music (begins in Sophomore year) (4)
- 66310 Jazz Theory I (3)
- 66350 Computer and Electronic Music (3)
- 66365 Instrumentation (3)
- 66366 Counterpoint (3)
- 66367 Techniques of Composition (3)
- 66490 Senior Project (0)
- Electives in Music (2)

Recommended Elective in Music..... 3 credits

- 66346 Conducting (3)

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Jazz Studies

62 credits

Required Courses.....62 credits

- Participation in Major Music Organization (6 semesters) (12)*
- 66150 Concert Series Attendance (8 semesters) (0)+
 - 66160 History of Jazz (3)
 - 66201 Piano I (2)
 - 66202 Piano II (2)
 - 66203 Theory I (3)
 - 66204 Theory II (3)
 - 66210 Jazz Improvisation Workshop (2)
 - 66221-422 Applied Music (8 semesters) (16)
 - 66231 Sight Singing and Ear Training I (1)
 - 66232 Sight Singing and Ear Training II (1)
 - 66310 Jazz Theory I (3)
 - 66311 Jazz Theory II (3)
 - 66332 Music of the Baroque and Classical Periods (3)
 - 66333 Music of the Romantic and Contemporary Periods (3)
 - 66365 Instrumentation (3)
 - 66410 Jazz Improvisation Workshop (2)
 - 66483 Senior Recital (0)

Recommended Electives in Music

- 66207-208 Jazz Piano I & II (2 each)
- 66210-410 Jazz Improvisation Workshop (2) -- (May be repeated for credit.)
- 66350 Computer and Electronic Music (3)

* *To be chosen from the following courses: Jazz Ensemble, Chamber Jazz Ensembles, Vocal Jazz Ensemble, Musical Theatre Orchestra.*

+ *Minimum -- must be taken every semester in residence.*

NOTE: *A student granted a waiver of any music course(s) must take an equivalent number of other music course(s) as electives.*

Music Therapy

127-133 credits

Required courses in Music.....54-60 credits

- 66141-145 Participation in Major Music Organization (4 semesters) (8)*
- 66150 Concert Series Attendance (8 semesters) (0)+
- 66XXX 3 semesters of Piano (6)**
- 66203 Theory I (3)
- 66204 Theory II (3)
- 66205 Voice I (2)
- 66217 Guitar I (2)
- 66218 Guitar II (2)
- 66221-422 Applied Music (begins in Sophomore year) (8)
- 66231 Sight Singing and Ear Training I (1)
- 66232 Sight Singing and Ear Training II (1)
- 66303 Theory III (3)
- 66320 Keyboard Harmony (2)

Choose 2 out of 3:

- 66331 Music of the Middle Ages and Renaissance (3)
- 66332 Music of the Baroque and Classical Periods (3)
- 66333 Music of the Romantic and Contemporary Periods (3)
- 66346 Conducting (3)
- 66364 Form and Analysis (3)
- 66365 Instrumentation (3)
- Electives in Music (4)

* *Any credits in excess of 8 can be used to fulfill music elective requirements. A minimum of three semesters of ensemble participation must be taken in residence.*

** *Piano I, II, III.*

+ *Minimum -- must be taken every semester in residence.*

Required courses in Music Therapy.....24 credits

- 66240 Introduction to Music Therapy (3)
- 66340 Music Therapy Methods and Materials (3)
- 66345 Psychology of Music (3)
- 66440 Music in Therapy (3)
- 66441 Problems and Issues in Music Therapy (3)
- 66442 Experimental Research in Music and Music Therapy (3)
- 66480 Music Therapy Practicum (3 semesters) (6)

A fourth semester of Practicum may be used to fulfill 2 credits of General College Elective.

Required related courses.....19 credits

- 07481 Transcultural Health (3)
- 15116 Biological World (4)
- 15170 Human Biology (3)
- 39210 Psychology of Exceptional Children (3)
- 80272 General Psychology (3)
- 80412 Abnormal Psychology (3)

College requirements must be met and additional courses taken to total a minimum of 127-133 credits, as required by AMTA.

After completing the required academic courses each Board Certification candidate is required to complete a six-month internship at an American Music Therapy Association, Inc.-approved clinical facility.

Upon successful completion of the internship, the student must pass the examination of the certification board for Music Therapists, Inc. in order to be a Board Certified Music Therapist.

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Minor in Music

25 credits

Required courses.....25 credits

- 66106 Fundamentals of Theory or 66203 Theory I (3)*
66203 Theory I or 66204 Theory II (3)*
66141-145 Participation in Major Music Organization (2 semesters) (4)
66201 Piano I (2)
66202 Piano II (2)

Choose 2 out of 3:

- 66331 Music of the Middle Ages and Renaissance (3)
66332 Music of the Baroque and Classical Periods (3)
66333 Music of the Romantic and Contemporary Periods (3)
Electives in Music (5)

* Entrance by placement exam.

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Liberal Arts Designation

All courses in music theory and music history count towards the liberal arts requirements. The following courses in music therapy also count towards the liberal arts requirements: 66240, 66345, 66441, 66442. The other courses in music therapy and all courses in applied music and performance do not count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

66100 The World of Music (3)

A broad-based survey course for the non-major designed to illustrate the elements of the art and the cultural styles employed, with numerous examples of both functional and professional application. Team-taught, there will be lectures and live performances by the entire Music faculty. Not open to music majors.

66106 Fundamentals of Music Theory (3)

Working knowledge of the rudiments of music, e.g., scales, keys, intervals, chords, and basic principles of rhythm, melody, harmony and form. Knowledge applied in sight singing, ear training, keyboard, and creative activities.

66109 Introduction to Music (3)

Music of the world as a form of communication. Attend weekly live performances preceded by a seminar to enhance the listener's understanding of the techniques employed by composers and performers. May not be counted toward the music major.

66141 College/Youth Symphony of the Hudson Valley (2)

The orchestra performs primarily classical works throughout the mid-Hudson region with selected students and guest artists as soloists. Consultation with the director is recommended before registering. May be repeated for credit.

66142 College-Community Chorale (2)

The largest combined choral ensemble of the College. Open to all students, faculty and community members on a non-audition basis. Consultation with the director is recommended before registering. May be repeated for credit.

66143 Symphonic Band (2)

Performs the highest quality wind band music ranging from classical to popular. Student and guest soloists appear. Consultation with the director is recommended before registering. May be repeated for credit.

66144 Concert Choir (2)

The major performing choral ensemble of the College. Membership is open to college students (both music and non-music majors) by audition. Commitment is for the academic year, September to May. May be repeated for credit.

66145 Collegium Musicum (2)

A performance course, primarily of Medieval, Renaissance and Baroque music. Study of vocal and instrumental performance practices of these periods. Early instruments are used as much as possible. Consultation with the director is recommended before registering. May be repeated for credit. Prerequisite: Ability to read music.

66146 Chamber Singers (2)

A vocal chamber ensemble of students selected from Concert Choir that sings primarily madrigal literature of various periods. Advanced singers gain ensemble experience in a select group of 16 to 20 performers. Commitment is for the academic year, September to May. Consultation with the director is required before registering. May not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: 66144 and PI.

66149 Vocal Jazz Ensemble (2)

The focus of this course is on the preparation and performance of various styles of vocal jazz literature. There is training in solo and ensemble vocal improvisation. At least one major concert is presented each semester. Except for vocal jazz majors, may not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: PI and audition.

66150 Concert Series Attendance (0)

Required of all declared music majors. Students will fulfill this requirement by attending a minimum of eight approved concerts each semester in attendance at New Paltz. Prerequisite: Music major.

66160 History of Jazz (3)

History of jazz as a musical and sociocultural development of the twentieth century. In addition to analyzing the development of jazz styles in musical terms, this course traces the effect of cultural forces on this uniquely American music.

66162 Chamber Jazz Ensembles (2)

Rehearsal and performance of instrumental and vocal jazz literature for the small jazz ensemble (2-8 performers). Focus on developing ensemble awareness, familiarity with jazz performance practices, improvisation, and stylistic distinctions. Placement in a group of students with similar levels of experience based upon an entry audition. At least one major concert is presented each semester. Prerequisite: PI.

66201 Piano I (2)

For beginners. Class instruction to develop the ability to play elementary pieces and to gain a concept of the basic requirements of a performing technique. Special emphasis on basic keyboard harmony skills. Not for applied piano majors.

66202 Piano II (2)

Continuation of Piano I. Not for applied piano majors. Prerequisite: 66201 or PI.

66203 Theory I (3)

The basic principles of rhythm, melody and harmony are applied to partwriting. Cadences, harmonic progressions, non-harmonic tones, inversions, analysis and creative activities. Prerequisite: Placement exam. Co-requisite: 66231.

66204 Theory II (3)

Continuation of Theory I. Harmonic sequence, dominant and non-dominant seventh chords, modulation, additional non-harmonic tones, melodic construction, accompaniments, small binary and ternary forms, analysis and creative activities. Prerequisite: 66203 and a grade of C or better in 66231. Co-requisite: 66202 and 66232. MPL 3 for GE2 students.

66205 Voice I (2)

Class instruction for students with little or no previous vocal training. Emphasis on basic vocal techniques--breath control, posture and focus--through vocalises. Study of Italian diction, early Italian songs and simple songs in English. Not for applied voice majors.

66206 Voice II (2)

Continuation of the study of vocal technique. Repertoire will be selected from songs in Italian and English. Prerequisite: 66205 or PI.

66207 Jazz Piano I (2)

An introduction to jazz techniques, tricks, and styles of piano playing. Included in the course of study will be: formation of jazz melodies, using jazz riffs, scales and arpeggios; chords and chord substitutions; chord progressions, including the 2-5-1 progression, blues progression, turn-arounds, and cycle-of-fifths; styles of various jazz pianists; and the application of the above techniques and styles to the playing of popular and jazz standards. Prerequisite: 66204 and PI.

66208 Jazz Piano II (2)

Continuation of 66207 Jazz Piano I. Prerequisite: 66204, 66207 and PI.

66210 Jazz Improvisation Workshop (2)

Instruction in jazz style improvisation in traditional and contemporary jazz literature. Solo and ensemble improvisation exercises to develop improvisational skill and technique in all styles. Emphasis on concepts of scale selection, melodic balance and contour, tension and release, and development of an individual voice as a jazz improviser. Assigned projects in analysis, preparation, and in-class performance of selected jazz literature. Prerequisite: 66203.

66211, 66212, 66213 Applied Jazz (2 each)

Individual weekly lessons in jazz voice, piano, string, wind, brass, and percussion instruments. For music

majors only. 66211 Fall only. 61212 Spring only. 66213 Summer only. Prerequisite: PI and music major.

66217 Guitar I (2)

An introduction to the folk guitar, focusing on chords, runs, strums, picking patterns and repertoire development. Prerequisite: Music major or PI.

66218 Guitar II (2)

For music therapy majors, continuation of Guitar I, with emphasis on barre chords, picking and strumming patterns, and repertoire development. Required for guitar performance proficiency. Prerequisite: 66217 or PI.

66221, 66222, 66223 Applied Music (2 each)

Individual weekly lessons in voice, piano, string, wind, brass and percussion instruments. Student will also participate in four chamber music rehearsal sessions. For music majors only. 66221 Fall only. 66222 Spring only. 66223 Summer only. Prerequisite: PI and declared music major.

66228 Applied Studio Class (2)

Applied voice students develop performance skills in workshop setting, performing regularly and observing one another. Analysis of individual performances guided by the instructor. Students also receive weekly half-hour coaching with an accompanist assigned by the professor. Co-requisite: 66221 or 66222, Applied Voice.

66231 Sight Singing and Ear Training I (1)

Basic training through musical activity exercises: action in time (rhythm and meter); action in space (pitch and intervals, scales); and coordinated action (combining time and space). Prerequisite: Music major or PC. Co-requisite: 66203.

66232 Sight Singing and Ear Training II (1)

Continuation of Sight Singing and Ear Training I. Prerequisite: Music major or PC. Co-requisite: 66204.

66240 Introduction to Music Therapy (3)

An overview of the field of music therapy that focuses on the role of the music therapist with psychiatric, geriatric, physically handicapped and developmentally disabled populations. Clinical observations at public and private rehabilitation centers.

66300 Explorations: The Lively Arts in New York City (6)

A look behind the scenes at the creative process in the arts. Interviews in New York City with composers, directors, sculptors, actors, painters, etc. followed by visits to museums and galleries, theatre productions, and musical performances. Preparation for each visit will take place during regularly scheduled class meetings on campus at New Paltz. Prerequisite: PI and 3.00 GPA.

66301 Piano III (2)

Continuation of Piano II. May not be counted toward the liberal studies piano major. May be repeated for credit. Prerequisite: 66202 or PI.

66303 Theory III (3)

Continuation of Theory II. Diminished sevenths and half-diminished sevenths, altered chords, advanced modulation, ninth chords, analysis and creative activities. Prerequisite: 66204 and a grade of C

or better in 66232.

66310 Jazz Theory I (3)

Fundamentals of jazz harmony. Chord voicings, alterations, and progressions. Use of scales and modes in jazz improvisation. Written and keyboard exercises, transcription of jazz solos, melodic and rhythmic dictation of jazz literature. Prerequisite: 66201, 66203 and 66204 or PI.

66311 Jazz Theory II (3)

A continued study of the vocabulary and structures of the jazz language. Emphasis on composition and arranging and the study of specific theories of harmony, melody and improvisation, including the work of Jerry Coker, Yusef Lateef, David Liebman, George Russel, Bill Dobbins, Mark Levine, and others. Prerequisite: 66310 or PI.

66315 Musical Theater Orchestra (3)

A performance ensemble associated with musical theater production. Students are admitted only by permission of the instructor and may be required to audition if not known to the instructor. The ensemble meets weekly to prepare an orchestration for a musical production and performs in the theater in as many as twelve performances. Prerequisite: PI.

66320 Keyboard Harmony and Improvisation (2)

This course is designed to supplement courses in written theory, sight-singing, and ear-training. It will develop skills in sight-reading, transposition, accompaniment, and improvisation at the keyboard. Prerequisite: 66301 and 66303.

66326 Diction for Singers I (3)

Study and application of the rules of Italian diction for singing; pronunciation learned through drill work and applied to songs sung in class. Voice prerequisite may be taken concurrently. At least one semester of a language other than English recommended. Prerequisite: Applied Voice or PI.

66327 Diction for Singers II (3)

Continuation of Diction for Singers I, with emphasis on French and German diction for singing. Prerequisite: 66326 or PI.

66330 Music Cultures of the World (3)

Students will study five music cultures: African Ewe, Black America, Central/Southeast Europe, Japan, and Ecuador. (Choice of cultures may change from semester to semester.) Each of these provides a unique approach to a music culture that could serve as a reference for the student's own course related fieldwork. The goal of the course is to help the student develop the ability to experience and explore unfamiliar music cultures on their own. Parallel with each music culture, the course deals with theoretical issues such as: the function of music, the preservation of the world's music, the theory and method of fieldwork, perspectives of insiders and outsiders of music, and gender and sexuality in music. Student will also study how to conduct and document field projects.

66331 Music of the Middle Ages and Renaissance (3)

A study of the history of Western music from ancient Grecian civilization to 1600.

66332 Music of the Baroque and Classical Periods (3)

A study of the history of Western music from 1600 to early Beethoven.

66333 Music of the Romantic and Contemporary Periods (3)

A study of the history of Western music from the middle period of Beethoven's compositions to the present time.

66334 The Symphony (3)

Development of the symphonic form in terms of historical significance and problems of interpretation. Works by composers such as D. Scarlatti, C.P.E. Bach, Haydn, Mozart, Beethoven, Brahms, Milhaud and others are analyzed. Current concerts and media programs are studied.

66335 The Opera (3)

Representative opera from the seventeenth century to the present, and cultural and intellectual forces involved. Use of recordings, tapes, media programs, movies and, where possible, live performance. Course is sometimes team-taught.

66336 The Art Song (3)

Origins and growth of the art song from the early Italian school to the present in recorded and live performances and in printed score.

66338 History of Chamber Music (3)

Evolution and growth of the sonata from its seventeenth-century backgrounds to the present through the study of the score and listening to recorded and live performances.

66340 Music Therapy Methods and Materials (3)

Plan, demonstrate and evaluate music activities for specific patient populations served by music therapists. Skills in circle and square dancing, leading group music activities, playing non-symphonic instruments and basic improvisation. Prerequisite: Music major or PI.

66345 Psychology of Music (3)

Introduction to the psychology of music. Focuses on psychological and physiological aspects of music behavior.

66346 Conducting (3)

Basic skills and training in rudimentary rehearsal techniques. Practical conducting experience with small vocal and instrumental ensembles in class and, where possible, with major ensembles. Prerequisite: 66303 and 66364.

66349 Piano Improvisation (3)

Organized approach to creating music spontaneously, i.e., improvising; manipulation of the various elements of music; exposure to a variety of approaches and settings for improvisation. Piano and other sound sources and stimuli. Prerequisite: 66204 and PI.

66350 Computer and Electronic Music (3)

This course provides the student with training in multiple instrument digital interface (midi) and computer-driven electronic music processes. Exploration of electro-acoustic music through a historical/analytical and hands-on approach.

66364 Form and Analysis (3)

Principal forms and compositional devices employed in music. Various masterpieces studied from the score. Rhythmic, structural, harmonic and contrapuntal factors. Prerequisite: 66303.

66365 Instrumentation (3)

Characteristics of the instruments and how they are employed in scoring for full orchestra or band. Prerequisite: 66303.

66366 Counterpoint (3)

Two-part writing in the eighteenth-century style. Imitative forms such as the canon and invention. Various contrapuntal devices and techniques. Prerequisite: 66303.

66367 Techniques of Composition (3)

Composers' techniques and their written application to the shaping of musical content and form. Prerequisite: 66366.

66379 Arts Administration Internship (2)

An opportunity for students to gain "hands-on" arts administration skills through work experience. Students will be assigned to arts offices both on and off-campus by the Director of Arts Services and will assist with production, planning, marketing, advertising, box office, record-keeping and so forth. Prerequisite: 66370, 66373, and PI.

66383 Junior Recital (0)

Recital opportunity for junior-level students in applied music. Program planned with and approved by the applied music instructor. Prerequisite: PI and PC.

66410 Jazz Improvisation Workshop (2)

Instruction in jazz style improvisation in traditional and contemporary jazz literature. Solo and ensemble improvisation exercises to develop improvisational skill and technique in all styles. Emphasis on concepts of scale selection, melodic balance and contour, tension and release, and development of an individual voice as a jazz improviser. Assigned projects in analysis, preparation, and in-class performance of selected jazz literature. Prerequisite: 66203.

66411, 66412, 66413 Applied Jazz (2 each)

Individual weekly lessons in jazz voice, piano, string, wind, brass, and percussion instruments. For music majors only. 66411 Fall only. 66412 Spring only. 66413 Summer only. Prerequisite: PI and music major.

66421, 66422, 66423 Applied Music (2 each)

Individual weekly lessons in voice, piano, string, wind, brass and percussion instruments. Student will also participate in four chamber music rehearsal sessions. For music majors only. 66421 Fall only. 66422 Spring only. 66423 Summer only. Prerequisite: PI and declared Music major.

66428 Applied Studio Class (2)

Applied voice students develop performance skills in workshop setting, performing regularly and observing one another. Analysis of individual performances guided by the instructor. Students also receive weekly half-hour coaching with an accompanist assigned by the professor. Co-requisite: 66421 or 66422, Applied Voice.

66430 Bibliographic Research in Music (3)

Exploration of research methods, sources, critical theories, and problems in musicology. Investigation of performance practices. Development of Senior Project thesis. Weekly projects, presentations, and reports required. Prerequisite: 66331, 66332, or 66333.

66440 Music in Therapy (3)

Advanced clinical techniques in music therapy are analyzed in terms of the needs of various populations. Prerequisite: 66340 and 66345.

66441 Problems and Issues in Music Therapy (3)

Legal, ethical and moral issues affecting music therapists. Topics include: the client's right to treatment or habilitation, therapist accountability and advocacy issues. Prerequisite: 66440.

66442 An Introduction to Experimental Research in Music and Music Therapy (3)

An introductory course in experimental research strategies and tactics appropriate to the field of music designed to aid the student in reading research articles. Topics of study include: physical, perceptual and psychological bases for music experimentation, major research designs in group and single-subject research, typical statistics reported in group research, structure of research questions and their implications, and parameters of given studies in terms of measurement and observation procedures. Prerequisite: 66345 recommended.

66480 Music Therapy Practicum I (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor and seminar attendance. Three semesters required of music therapy majors. Prerequisite: PI.

66481 Music Therapy Practicum II (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor, and seminar attendance. Three semester required of music therapy majors. Prerequisite: PI.

66482 Music Therapy Practicum III (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor, and seminar attendance. Three semesters required of music therapy majors. Prerequisite: PI.

66483 Senior Recital (0)

Equivalent of Senior Project (66490) for Applied majors only. Program planned with and approved by the applied instructor. Prerequisite: PI and PC.

66490 Senior Project (0)

The nature of the research and/or creative activity is determined by the student and his project advisor and approved by the chair. The project may be analytical, historical or creative. Required of History/Literature and Theory/Composition majors in their senior year. Prerequisite: PI, PC, and Senior.

Theatre Arts

Phone: (845) 257-3865

Location: College Theatre Room 102

Major in Theatre Arts

52 credits

NOTE: Theatre Arts Participation, 91301, must be taken four times for a total of 4 credits.

** Special Note: A grade of "C-" or better must be earned in all theatre courses to earn credit toward a theatre major.*

Substitutions for courses in any specific area of the program may be approved by the Departmental Chair.

Theatre Core Requirements.....31 credits

- 91231 Acting I (3)
- 91251 Theatre One (3)
- 91252 Introduction to Theatre Technology (3)
- 91253 Costume Construction I (3)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)

Concentration Requirements.....18 credits

Supportive Requirement..... 3 credits

In addition to the above listed core courses, students must complete a 9 credit requirement in a selected concentration (Design/Technical or the Performance) **AND** an additional 9 credits of electives in that concentration. The additional 3 credit supportive requirement must be earned by completing an elective in the other area.

Performance Concentration Requirement..... 9 credits

- 91303 Voice for Theatre I (3)
- OR
- 91334 Speech for the Stage (3)

- 91332 Acting II (3)

- 91337 Introduction to Dance/Movement (3)
- OR
- 91339 Jazz I (3)

Design/Technical Concentration Requirement..... 9 credits

91352 Introduction to Computer Assisted Design (3)
91354 Scene Design I (3)
91XXX

*Theatre Electives: Performance = P; Design/Technical =DT; * = entrance by audition/interview*

91211	Rehearsal and Production (1)	P/DT	
91212	Rehearsal and Production (2)	P/DT	
91213	Rehearsal and Production (3)	P/DT	
91241	Mind and Movement (2)	P/DT	
91295	Independent Study in TA (3)	P/DT	
91303	Voice for Theatre I (3)	P	
91304	Voice for Theatre II (3)	P	
91305	Musical Theatre Workshop I (3)	P*	
91306	Musical Theatre Workshop II (3)	P*	
91310	Live Theatre Experience (3)	P/DT	
91325	Playmaking (3)	P	
91332	Acting II (3)	P	
91333	Acting III (3)	P*	
91334	Speech for the Stage (3)	P	
91335	Stage Makeup I (3)	P/DT	
91336	Stage Makeup II (3)	P/DT*	
91337	Introduction to Dance/Movement (3)	P	
91338	Tap Dance I (3)	P	
91339	Jazz I (3)	P	
91341	Dialects for the Stage (3)	P*	
91342	Stage Management (3)	DT	
91343	Scene Painting (3)	DT*	
91345	Jazz Dance II (3)	P*	
91346	Tap Dance II (3)	P*	
91347	Choreography for Musical Theatre (3)	P*	
91351	Drafting for the Theatre (3)	DT	
91352	Introduction to Computer Assisted Design (3)		DT
91353	Costume Construction 2 (3)	DT	
91354	Scene Design 1 (3)	DT	
91362	Improvisation and Performance (3)	P	
91363	Scene Study (3)	P*	
91364	A Modern Approach to Ballet (2)		
91365	Theatrical Movement Technique (2)		
91371	Text Analysis for the Actor (3)	P*	
91411	Rehearsal and Production (1)	P/DT	
91412	Rehearsal and Production (2)	P/DT	
91413	Rehearsal and Production (3)	P/DT	
91420	American Musical Theatre (3)	P	
91425	Multiculturalism and Theatre (3)	P/DT	
91432	Acting IV (3)	P*	
91441	Directing I (3)	P/DT	
91442	Directing II (3)	P*	

91451	Portfolio Development Seminar (3)	DT*
91453	Costume Crafts (3)	DT*
91454	Scene Design 2 (3)	DT*
91455	Costume Design 2 (3)	DT*
91456	Lighting Design 2 (3)	DT*
91490	Senior Project in Theatre (3)	
91492	Fieldwork in Professional Theatre (3)	DT*
91494	Fieldwork in Theatre (3-15)	P/DT*
91495	Independent Study in TA (2-4)	P/DT*
91594	Fieldwork in TA (3-15)	P/DT*
91293, 91393, 91493	Selected Topics (1-3)	

Some of the titles recently offered as Selected Topics:

- Introduction to Autocad (3)
- Broadway Dance Styles (3)
- History of Costume (3)
- Making Dance (3)
- Stage Combat (2)
- Mask and Mime (2)
- Lighting Design I (3)
- Movement in Asian Theatre (2)
- Russian Ballet Technique (3)

Major in Scenography

Bachelor of Fine Arts

70 credits

Required core courses for Scenography.....52 credits

- 09100 Freshman Drawing I (3)
- 09101 Freshman Drawing II (3)
- 91231 Acting I (3)
- 91252 Introduction to Theatre Technology (3)
- 91253 Costume Construction I (3)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)
- 91351 Drafting for the Theatre (3)
- 91352 Introduction to Computer Assisted Design (3)
- 91353 Costume Construction 2 (3)
- 91354 Scene Design 1 (3)
- 91490 Senior Project T.A. (3)

Art History component..... 6 credits

Two courses to be selected by advisement.

- 11201 Art History I (3)

11202 Art History II (3)

Theatre Electives.....12 credits

Any four of the following courses to be selected by advisement.

- 91251 Theatre I (3)
- 91335 Stage Makeup I (3)
- 91336 Stage Makeup II (3)
- 91451 Portfolio Development Seminar (3)
- 91453 Costume Crafts (3)
- 91454 Scene Design 2 (3)
- 91455 Costume Design 2 (3)
- 91456 Lighting Design 2 (3)

Minor in Theatre Arts

24 credits

Required courses.....15 credits

- 91330 Introduction to Theatre (3)
- 91252 Introduction to Theatre Technology (3)
- 91253 Costume Construction I (3)

Any two of the following:

- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)

Electives..... 9 credits

The remaining 9 credits must be selected from existing Theatre courses and/or Departmental Selected Topics, in consultation with the student's advisor. Students should attempt to find a specific theatre focus within the electives category.

Liberal Arts Designation

The following courses count toward the liberal arts requirement:

- 91211, 91212, 91213, 91252, 91254, 91310, 91321, 91322, 91323, 91324, 91325, 91330, 91334, 91338, 91339, 91341, 91342, 91353, 91354, 91362, 91363, 91411, 91412, 91413, 91420, 91425, 91441, 91442, 91453, 91456, 91490, 91595.

Courses

In addition to the following, Selected Topics, Fieldwork, Independent Study and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

91211 Rehearsal and Production (1)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation.

Prerequisite: PI.

91212 Rehearsal and Production (2)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PI.

91213 Rehearsal and Production (3)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PI.

91230 Introduction to Acting (3)

Through active participation in physical and mental exercises, some of the training of the actor is experienced. Through active participation in class discussion, a better understanding and appreciation of the actor and acting will develop.

91231 Acting I (3)

Practical exploration of the art and craft of acting, with emphasis on the body, voice and the actor's imagination. Prerequisite: Majors only with PI.

91241 Mind and Movement (2)

This course is a gentle in-depth approach to help the student know the body from the inside out. Starting with an understanding of anatomy, students will work to replace movement habits with intelligent choices.

91251 Theatre One (3)

The craftsmanship of the playwright, the director, the actor, the designers, the technicians, depends on an idea of what theatrical art is and how it works. This course explores theatrical ideas as a preparation for imaginative and creative work in the theatre, and culminates in a small production. Prerequisite: Theatre major or PI.

91252 Introduction to Theater Technology (3)

Introduction to basic materials and techniques used in technical theater production. This course will include the study of Stagecraft, Lighting Technology and Audio Engineering techniques in current use. Practical application in departmental productions. Prerequisite: Theater Major or PI.

91253 Costume Construction I (3)

An introduction to the costume shop, its equipment and its use. Projects to develop basic skills and techniques used in costume construction. Prerequisite: PI.

91260 Introduction to Design (3)

A fundamental course examining basic techniques and methods employed in theatrical design. This course will explore the principles and elements of design as applied to scenic, lighting, costume and sound design (Scenographic technique). Prerequisite: Theater Major or PI

91301 Theatre Arts Participation (1)

Advanced participation in theatre activities; supervised laboratory experiences in the areas of design, technical theatre, management, acting, directing. Prerequisite: 91252, 91253, 91254 or PC.

91303 Voice for Theatre I (3)

A basic course designed to help the singing actor improve vocal techniques used in musical theatre. Exercises are chosen to develop tone, breath, diction, resonance, projection, and dramatic expression. Theatre music style will be studied by selecting songs from the 1890's to the 1940's. Students will prepare and perform assigned pieces for class critique and evaluation. Prerequisite: Theatre major or PI.

91304 Voice for Theatre II (3)

Continuation of 91303. The same format of exercises and class presentations will be used. Theatre music style will be studied by selecting songs from the 1950's to the 1990's. Prerequisite: 91303, 66205, Theatre major or PI.

91305 Musical Theatre Workshop I (3)

Development of fundamental skills necessary for performing in musical theater. Focus will be on individual vocal performance of classical musical theater material, supplemented by movement and scene work, and the development of a portfolio of songs for each student. Chronological study of classic and contemporary composers. Prerequisite: 91303 or PI.

91306 Musical Theatre Workshop II (3)

Continuation of 91305 with an emphasis on ensemble performance. Students will perform selected vocal and dance ensemble pieces (duets, trios, quartets, etc.) with other members of the class; exercises, games, and improvisation which deal with problems of blocking, choreography, vocal techniques, timing, and rhythm. An ensemble piece may result, depending on class enrollment. Prerequisite: 91305 or PI.

91310 Live Theatre Experience (3)

Students witness New York City theatre productions and New Paltz productions. Through lectures, discussions, and written assignments, the course examines the appeal and ingredients of live theatrical presentations. Focus will be on plays rather than on opera and dance. Prerequisite: PI and fee for tickets and transportation.

91314 Period Styles (3)

This course covers material culture (domestic, architecture, decorative arts, furniture, fashion and music), as well as significant points of social history from the late Middle Ages through the 20th century. Prerequisite: 91260.

91321 Theatre History I (3)

Historic survey of the theories and techniques of staging and performing plays from ancient Greece to 1650. Prerequisite: PI.

91322 Theatre History II (3)

Continuation of 91321. From 1650 to 1915. Prerequisite: PI.

91323 World Drama I (3)

A survey of drama from the Greeks through the Romantic period. Examination of classical dramatic literature and its relevance in modern theatre. Prerequisite: PI.

91324 World Drama II (3)

A survey of plays and playwrights from Henrik Ibsen and the introduction of Realism through movements of the twentieth century to the present day. Examination of dramatic literature as the basis for making theatre. Prerequisite: PI.

91325 Playmaking (3)

An exploration, through lectures, improvisation and exercises, of the process of creating structured performance vehicles for the theatre. Various methods of playmaking will be examined. Prerequisite: 91324 or PI.

91330 Introduction to Theatre (3)

This team-taught course introduces the structure of drama, paying particular attention to the audience's point of view. Also introduced and discussed are the duties and responsibilities of the various members of a production team.

91332 Acting II (3)

Continuation of 91231. Understanding of the basic craft of acting through fundamental technique based on methods of Stanislavski and Meisner. Attention to rehearsal process as applied to scene work in realism. Prerequisite: 91231 and PI. May be repeated for credit.

91333 Acting III (3)

Continuation of 91332. Preparation of students who wish to enter the theatre as actors. The class functions as a diagnostic of the actor's strengths and problems, and expands the range of the actor's work to include various classical styles with emphasis on Shakespeare. Prerequisite: 91332 PI.

91334 Speech for the Stage (3)

Positive conditioning and heightened perception of the entire body as the actor's vocal instrument. Developing a clear understanding of the mechanics of strong, effective voice and speech for the stage, using Linklater, Lessac, and Berry techniques. Prerequisite: 91231 or PI.

91335 Stage Makeup I (3)

Studio course in the fundamentals of theater makeup techniques and design skills as they relate to the creation of characters for the stage. Includes realistic and non-realistic, 2-dimensional and basic 3-dimensional makeup. Prerequisite: 91231 (may be taken concurrently).

91337 Introduction to Dance/Movement (3)

An introduction to specific movement and performance skills such as broadsword, ballet, jazz and tap dance.

91338 Tap Dance (3)

A series of technical basics developed to orient the student to the foundation of tap dance and the progression of sounds that constitute the art of the discipline. Prerequisite: 91337 (may be taken concurrently) or PI.

91339 Jazz (3)

A series of technical experiences in the jazz form of dance. Prerequisite: 91337 or concurrent enrollment or PI.

91341 Dialects for the Stage (3)

Exploration and study of foreign dialects for use in stage productions. Initial emphasis on mastery of International Phonetic Alphabet for dialect transcription. Presentation/performance of scripted material using selected dialects. Prerequisite: 91334 or PI.

91342 Stage Management (3)

A study of organizational methods and working procedures currently in use by stage managers in all venues of production. This course will involve practical as well as theoretical work. Prerequisite: 91231, 91251, 91252, and 91253.

91343 Scene Painting (3)

To learn broad techniques employed in scene painting. Starts from realistic style as the foundation for gradually approaching the styles that support the emotional qualities of plays. Prerequisite: 91252, 91260.

91345 Jazz Dance (3)

Introduction to styles of modern jazz dance and techniques developed by choreographers in the 20th century for use in musicals, television and films. Prerequisite: 91339 or PI.

91346 Tap Dance II (3)

A series of technique experiences in tap dance designed for the development of a high level of performance skill. Prerequisite: 91338 or PI.

91347 Choreography for Musical Theatre (3)

Participation in the creation and rehearsal of choreographed movement specifically designed for a musical theatre production, culminating in public performances. Prerequisite: Casting in the Spring Musical and PI.

91351 Drafting for the Theater (3)

Studio course in theatrical drafting. A study of the graphic communications language and mechanical drawing skills for the theater. Prerequisite: 91252, 91260.

91352 Introduction to Computer Assisted Design (3)

Computer Assisted Design employing software currently in use by industry professionals. Prerequisite: 91252, 91260, 91351.

91353 Costume Construction II (3)

Advanced study of the patterns and construction methods used during the major periods in costume history and their adaptation for theatrical costume. Prerequisite: 91253.

91354 Scene Design I (3)

The course will explore the complex nature of scene design for Theater, utilize the principles and elements of design, and develop an ability in translating verbal concepts into the visual and graphic medium. Prerequisite: 91260.

91355 Costume Design 1 (3)

The techniques and practices of theatrical costume design, including play analysis, research, color theory, drawing, use of different artists' media, and creative thinking. Class work will result in renderings and other portfolio materials. Prerequisite: 91260.

91356 Lighting Design 1 (3)

An introduction to Stage Lighting Design. Study of equipment and media available to the theatrical lighting designer. Lighting laboratory exercises culminate in basic lighting designs using standard graphic conventions. Prerequisite: 91260.

91357 Sound Design 1 (3)

Application of the elements of design, script analysis and research techniques to create sound designs for theatrical production. Prerequisite: 91251, 91260.

91358 Audio Engineering 1 (3)

Examination of current techniques employed by systems engineers for creating, editing and recording sound effects for theatrical production. Prerequisite: 91251, 91260, 91351 or 91352.

91359 Theater Drawing 1 (1)

This course will address drawing styles and materials most useful to Design and Technical Theater students. The course will include perspective drawing, rendering, 3-D effects and figure drawing among other techniques (light/shadow relationships and color).

Prerequisite: 91260.

91360 Computer Rendering for the Stage (3)

Rendering and three-dimensional modeling technique employing software currently in use by industry professionals. Prerequisite: 91354 or 91355 or 91356.

91362 Improvisation and Performance (3)

Exploration of the theory and practice of improvisation as a performance form in the tradition of Chicago's Second City. Development of specialized skills, with emphasis on imagination, spontaneity, teamwork, and on-the-spot creativity. Prerequisite: PI.

91363 Scene Study (3)

Continuation and refinement of technique begun in Acting II, with intensified application of technique to selected scene material. Content includes understanding demands of text and meeting challenges of different dramatic material. Special attention to scoring the scene. Prerequisite: 91332 and PI.

91364 A Modern Approach to Ballet (2)

This course is for the beginning to intermediate dancer interested in Modern, Ballet or Jazz Dance. Ballet is used as a foundation stressing skeletal alignment and movement efficiency.

91365 Theatrical Movement Technique (2)

This course is designed as an introduction to movement as used for theatrical expression. We will explore the elements of time, space, and energy through the synthesis of movement technique and improvisation.

91371 Text Analysis for the Actor (3)

The course seeks to identify the clues a playwright provides on the page to help the actor fully express the written word. Beginning with Shakespearean verse scansion and progressing to contemporary texts, punctuation, syntax, imagery and tone are explored; selections are orally presented. Prerequisite: 91332 and PI.

91411 Rehearsal and Production (1)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation.

Prerequisite: PI.

91412 Rehearsal and Production (2)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation.

Prerequisite: PI.

91413 Rehearsal and Production (3)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation.

Prerequisite: PI.

91420 American Musical Theatre (3)

A study of the origins and development of the American musical theatre from FLORA in 1735 to the most recent openings on Broadway. An analysis of the American musical theatre as a unique contribution to the art of theatre.

91425 Multiculturalism and Theater (3)

A study of that segment of the American theatre that reflects the lives of minority groups in our pluralistic culture. Major focus on three groups: African-American, women, and gay/lesbian with some consideration of Latino and Asian. As a result of the political and cultural movements of the last thirty years, strong minority identities have evolved in our society. The artistic expressions of these groups have had an important impact upon traditional mainstream theatre. Exploration through reading, viewing, lecture, and discussion. Prerequisite: Two freshmen English courses.

91432 Acting IV (3)

Advanced phase of the acting program for those students who have chosen to enter the theatre as actors. Extends the actor's work in character and play analysis, and in preparation of audition materials, resume, pictures, approaching agents, Actor's Equity, etc. Prerequisite: 91333 or PI.

91441 Directing I (3)

The director's analysis of a script, the use of space as environment, the elements of composition and movement, emotional key and tempo, casting, rehearsal techniques, and the director's relationship to the other artists of the theatre. Prerequisite: 91231 or PI.

91442 Directing II (3)

Continuation of 91441 with emphasis upon interpretation, theatrical styles, and the director-actor relationship. Each student's class activities culminate in the preparation, rehearsal, and presentation of a one-act play. Prerequisite: 91441 or PI.

91451 Portfolio Development Seminar (3)

Seminar course directed toward content of portfolio and resume development. This course will focus on preparing students for graduate school interviews or to gain employment in the professional industry.

Prerequisite: 91354 or 91355 or 91356.

91452 Materials and Techniques (3)

Advanced study of technical problems in Theater Technology, with an emphasis on the use of new materials and techniques. Prerequisite: 91252, 91351 or 91352.

91453 Costume Crafts (3)

Techniques in dyeing, painting and surface decoration of fabric, use of foam and other non-woven materials and millinery. Prerequisite: 91353

91454 Scene Design 2 (3)

A continuation of Scene Design 1. Recognize and explore the complex nature of scenography for the Theater. Sharpen theatrical sensitivities and develop conceptual design skills. Prerequisite: 91351, 91354, 91359.

91455 Costume Design 2 (3)

An advanced look at techniques and challenges of the costume designer. This course includes advanced artists' techniques, as well as research, and will result in more in-depth projects than Costume Design 1. Prerequisite: 91355, 91359.

91456 Lighting Design 2 (3)

Advanced exploration of the artistic process of lighting design. Study and practice of hand drafted plots and sectionals. CAD drafted plots and sectionals, industry standard paperwork, and boards. Prerequisite: 91351, 91356, 91359.

91457 Sound Design 2 (3)

An advanced study of sound design within a project based course. Students will submit production concept statements and recording for the production in a quality format. Special focus will be on original composition for theatrical production. All work will be formally submitted for evaluation. Prerequisite: 91251, 91260, 91357.

91458 Audio Engineering 2 (3)

Examination of current techniques employed by systems engineers regarding reinforcement techniques for live theatrical events. Emphasis will be on microphone use for vocal and instrumental reinforcement in musical theater, and the use of vocal amplification in non-musical situations. Prerequisite: 91358.

91459 Theater Drawing 2 (1)

A continuation of Theater Drawing 1 with increased emphasis in graphic communication. Prerequisite: 91260, 91359.

91460 Introduction to Scenography (3)

A culmination of all design courses where the student functions as scenographer in the European tradition. Students will conceptualize and design all of the elements of a series of plays.

Prerequisite: 91454, 91455, 91456.

91490 Senior Project in Theatre (3)

Advanced work on an individual basis, awarded to a theatre major, subject to approval of instructor. Prerequisite: PI.

91492 Fieldwork in Professional Theatre (3)

The course is offered to theatre students recommended into the internship program created by an agreement between The College and Middletown Union Local 311 of the International Alliance of Theatrical Stage Employees (I.A.T.S.E.). Successful completion of this course allows students to make application for membership into the Union. Prerequisites: 91252, 91253, 91254, 91352, 91414, or PI.

College of Liberal Arts and Sciences

Gerald Benjamin, Dean
Stacie S. Nunes, Associate Dean
Richard Varbero, Associate Dean

Anthropology

Phone: (845) 257-2990

Location: Wooster Science Building Room 124

Web address: www.newpaltz.edu/anthropology

Courses in the Department of Anthropology deal with three areas. Physical anthropology is concerned with the evolution of human beings as biological organisms and with the physical variation within contemporary human populations. Archaeology and prehistory explore the extinct cultures of the past and attempt to elucidate the processes involved in their development. Sociocultural anthropology is involved with the comparative analysis of socially learned behavior patterns and institutions of contemporary populations from all areas of the world.

Archaeology Field School

The department offers a summer program that affords students with the opportunity to participate in an actual archaeological excavation. Emphasis is placed on excavation techniques, methods of classification and analysis, and anthropological interpretation. At present, efforts are concentrated on Paleo-Indian Archaic, Woodland and historic contact sites in the mid-Hudson region of New York.

Major in Anthropology

36 credits

Required courses.....21 credits

- 07211 General Anthropology (3)
- 07213 Introduction to Archaeology (3)
- 07214 Cultural Anthropology (3)
- 07301 Human Evolution (3)
- 07400 Development of Anthropological Thought (3)
- 07401 Comparative Social Organization (3)
- 07402 Research Methods in Anthropology (3)

Electives.....15 credits

Each major candidate is required to complete, by advisement, 5 upper-division anthropology courses at least two of which shall be from two different geographic areas.

Majors are encouraged to go beyond the 36-hour program in order to develop greater concentrations in the particular sub-fields of anthropology. In addition to taking more courses within the anthropology curriculum, they are encouraged to study in the related fields.

Minor in Anthropology

18 credits

Required courses.....12 credits

One of the following:

07211 General Anthropology (3)

07214 Cultural Anthropology (3)

One of the following:

07213 Introduction to Archaeology (3)

07301 Human Evolution (3)

Plus:

Another 300-level course (3)

One 400-level course (or above) (3)

Electives..... 6 credits

Two courses at any level.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the courses listed below, the Department of Anthropology has developed a number of selected topics courses on the 200, 300 and 400 level that meet major and minor requirements. Students are advised to look at the Schedule of Classes for recently introduced courses.

07101 The Modern World (4)

Survey of world societies, rise of the west, capitalist world system and challenges to it, cultural and material interchanges among major world civilizations, formation of industrial-urban societies, the political and ideological foundations of present global civilizations.

07211 General Anthropology (3)

Introduction to the theories, methods, and major areas of anthropology.

07213 Introduction to Archaeology (3)

Method and theory of archaeology as a branch of anthropology; survey of major archaeological discoveries and sequences of world prehistory.

07214 Cultural Anthropology (3)

Principal concepts, data, and generalizations about the behavior systems of human groups with emphasis on non-Western cultures.

07240 Field Archaeology (3)

Practical exposure to the study of archaeology. Field methods; techniques of data recovery in the field and analysis of archaeological materials in the laboratory. Lab practice; fieldwork on Saturdays for half of the semester in the New Paltz area.

07301 Human Evolution (3)

The modern synthetic theory of evolution. The origin and development of life. The rise of our non-human ancestors; fossil man; the concept of race and the fallacy of racism.

07303 Indians of North America (3)

Survey of cultures north of Mexico; description and analysis of institutional changes resulting from Indian and non-Indian contacts; role of anthropological theories in the selection of research problems and analysis of North American Indian cultures.

07304 Ancient Mesoamerica (3)

A survey of the cultural development in Ancient Mesoamerica prior to the Spanish conquest, with particular focus upon the Maya and Aztecs.

07308 Caribbean Ethnography (3)

A survey of important aspects of culture and social organization of various Caribbean populations from historical and contemporary perspectives.

07312 North American Archaeology (3)

An archaeological survey of early man in North America.

07314 New York State Archaeology (3)

Major prehistoric developments in New York State; evolution of the resident aboriginal cultures from the post-Pleistocene appearance of the Paleo-Indians through late Woodland (Iroquois) times.

07315 Historical Archaeology (3)

The purpose of this course is to provide a working knowledge of American historical archaeology from both a practical and theoretical perspective. Subject areas covered include archeological excavation methods and strategies, artifact analysis, current research and theory, and how historical archeology can answer questions about past human behavior. Prerequisite: One course in anthropology recommended.

07361 Exploring the Unknown (3)

An exploration of the "great mysteries" which have captured the popular imagination. A rational evaluation of the facts and hypotheses that surround such mysteries as Bigfoot, the Loch Ness Monster, UFOs, the ancient astronauts of von Daniken, the Bermuda Triangle, the legends of Atlantis and Mu, and the construction of the Egyptian pyramids. A research paper is required.

07362 Race, Ethnicity and Inequality (3)

Investigation of the nature of the system of racial and ethnic classification that prevails in the contemporary United States and of the socio-historical processes that have generated this cultural taxonomy. Exploration of the impact of our ideas and understandings about racial and ethnic differences on selected aspects of U.S. social life.

07378 Cultures of India (3)

The culture of the Indian subcontinent in terms of population, languages, social institutions, and cultural patterns; changing cultural patterns.

07380 Cultures of Africa (3)

Introduction to social and cultural institutions of sub-Saharan Africa. Emphasis on traditional society but consideration given to social change.

07383 Culture of China (3)

An introduction to the culture and society of China including an exploration of traditional Chinese village life. The restructuring of society and culture in post-revolutionary times is examined in

relationship to continuity and change with the past.

07400 Development of Anthropological Thought (3)

Examination of the major theoretical positions in contemporary anthropology, and of their development in the broader context of the history of ideas. Prerequisite: One course in anthropology or PI.

07401 Comparative Social Organization (3)

A review of basic principles of kinship organization and an examination of major theories of kinship. A consideration of important dimensions of extra-familial social organization. Prerequisite: One course in anthropology or PI.

07402 Research Methods in Anthropology (3)

A consideration and study of the methods critical to anthropological research. Methods and techniques common to the social sciences and those unique to anthropology are discussed. Basic statistical concepts and experimental design. Prerequisite: One course in anthropology or PI.

07403 Religion and Culture (3)

Religion and its relationships to culture in different societies. Systems of belief and their translation into ritual and behavior. The role of religion in the value systems of different societies. Prerequisite: One course in anthropology or PI.

07405 Theories of Culture Change (3)

Current theories of culture change and social evolution and an evaluation of some of the problems provoked by situations of rapid social change, especially in the developing countries. Prerequisite: One course in anthropology or PI.

07408 Cultural Resource Management (3)

A practical introduction to the field of cultural resource management. The history and philosophy of cultural resource conservation. Cultural resources and the law; sampling and survey techniques and the preparation of environmental impact statements. Prerequisite: One course in anthropology or PI.

07409 Psychological Anthropology (3)

Principal aspects of the influence of culture on personality. Anthropological investigation of normal and abnormal behavior in diverse cultural contexts; the development and place of the individual in pre-industrial and modern societies. Prerequisite: One course in anthropology or PI.

07410 Applied Anthropology (3)

Applied anthropology attempts to solve human problems and to facilitate change by drawing upon the knowledge about the culture or subculture for which these solutions and innovations are to be designed.

Discussed are agricultural, social, educational and health programs that were conducted in the United States and in other countries, ethical and legal issues, and the organization of work. Prerequisite: 07214 or PI.

07411 World Peasantry (3)

The nature of peasantry as a social and community type explored through existent theory and detailed ethnographic materials from diverse areas of the world. Prerequisite: One course in anthropology or PI.

07412 Problems of the Third World (3)

A historical review of the factors that led to the economic disparity that exists between what is called the Developed World and the Third World. Consideration of internal and external factors hindering or promoting development. Prerequisite: One course in anthropology or PI.

07413 Urban Anthropology (3)

Issues of urban living and development from an anthropological point of view; cross-cultural comparisons of urban settings; relationship between cultural traditions and style of urbanization. Prerequisite: One course in anthropology or PI.

07421 Cross-Cultural Perspective on the Status of Women (3)

A study of the historical and contemporary position of women in society in a variety of cultures. A theoretical overview and presentations by guest lecturers.

07430 Suicide and Culture (3)

Description and analysis of attitudes towards suicide in various cultures. Understanding of each attitude within its cultural context. Transcultural generalizations about cognitive, social and political dimensions of attitudes.

07434 Archaeological Field School (9)

Archaeological excavation to train students in the practical application of archaeological theory and method. Prerequisite: PI.

07450 Medical Anthropology (3)

Social and cultural factors that affect variations in disease incidence, illness-related behavior, and therapeutic procedures; cross-cultural examination of differences and similarities among various medical traditions; consequences of contact in medical settings among individuals not sharing the same medical traditions and expectations; effect of disease on human evolution; problems of ethics in medicine as they relate to culturally diverse contexts. Prerequisite: One course in anthropology or PI.

07461 Seminar in Magic, Witchcraft and Sorcery (3)

Beliefs in magic and particularly in witchcraft are placed into general cosmological systems in their cultural contexts so that they are seen to have sociological and psychological functions. Prerequisite: One course in anthropology or PI.

07470 Ethnographic Fieldwork (3)

An examination of processes and problems involved in conducting qualitative ethnographic fieldwork, and a consideration of the feasibility of using traditional ethnographic research techniques to study U.S. culture. Each student will formulate and conduct a limited ethnographic field project in consultation with the instructor. Prerequisite: 07214 or PI.

07481 Transcultural Health (3)

Examination of aspects of culture that affect bio-physical and psychological health status, illness, and therapeutic behavior in diverse and multi-cultural settings. The application of anthropological research and methods to understanding and instituting change in medical systems. Designed for advanced level students without prior training in anthropology.

Asian Studies

Phone: (845) 257-3546

Location: JFT 922

Web address: www.newpaltz.edu/asianstudies

The Asian Studies program offers students the opportunity to deepen their international outlook through interdisciplinary study of East Asia and South Asia. In conjunction with Chinese or Japanese language study, students may choose from several dozen courses offered by faculty in over ten departments. Areas of expertise include Asian art, the anthropology of South Asia, intercultural communication with China, the history and politics of East Asia, U.S.-China relations, the modern history of Vietnam, Asian philosophies, the film of China, Asian American literature, and Chinese women.

Students in Asian Studies often, though not always, elect to combine theory study of Asia with another major or minor in a particular discipline.

Instruction is greatly augmented by study abroad opportunities in China and Japan, a superb library collection of books and periodicals on Asia, and by the resources of a newly designed language laboratory.

Graduates with expertise in East Asia are sought by employers in a wide range of professions, including academia, business, government and think tanks, international companies and organizations, libraries and museums, media, non-profit organizations, and language teaching abroad.

Contract Major in Asian Studies

36-38 credits

A contract major in Asian Studies can be individually designed to in close consultation with a contract committee, composed of the Program Director and two additional members of the Asian Studies Faculty.

Required courses.....16 credits

Two years of language study in either Chinese or Japanese. Students with a high degree of language proficiency in these or other Asian languages may take 16 credits in other Asian Studies courses.

Content Courses on Asia.....20 credits

Two courses in the civilization or culture of the area whose language is studied, and additional courses in Asian Studies to total 20 credits.

Minor in Asian Studies

18 credits

The minor provides an introduction to the study of Asian languages and culture. To students of Asian descent it also serves to provide a better appreciation of themselves and of their heritage.

Required courses..... 8 credits

One year of language study in either Chinese or Japanese. Students with language proficiency in these or other Asian languages may take 8 credits in other Asian Studies courses.

Content Courses on Asia.....10 credits

One course in the civilization or culture of the country whose language is being studied, and additional courses in Asian Studies to total 10 credits.

Courses

In addition to the Asia-content courses listed under individual department, selected topics, fieldwork, independent study, and modular courses may be offered. See “Academic Policies and Procedures” in the Student Advising Handbook.

Students interested in a minor or contract major in Asian Studies should consult with the Asian Studies Program Director in the Department of History.

Biology

Phone: (845) 257-3770

Location: Coykendall Science Building Room 106

Web address: www.newpaltz.edu/biology

There are two tracks within the liberal arts biology curriculum: (1) Organismal/Environmental Biology and (2) Cell/Molecular Biology. In each track there is a requirement for a year of General Biology and for the appropriate chemistry, physics, and math courses. Although the tracks differ in their course requirements, all lead to the B.S. or B.A. degree in biology. However, most medical, dental, and veterinary schools require one year of General Biology (with lab), two years of chemistry through organic chemistry (with lab), one year of physics (with lab), one year of math, and one year of English. Biochemistry is suggested for medical schools. Most graduate schools require two years of chemistry through organic chemistry (with lab), one year of physics (with lab), calculus, statistics, and reading knowledge of a foreign language. For graduate study in cell or molecular biology, a full year of biochemistry is recommended.

The biology program places great value on the quality of the learning experience; classes are small and lab courses offer hands-on training in valuable research methods. These include transmission and scanning electron microscopy, electrophoresis of protein and DNA, restriction mapping, microbiological techniques, identification of plant pathogens, and much more. Our location also provides exceptional opportunity for investigations in ecology, ornithology and field biology.

Majors in Organismal/Environmental Biology

62-69 credits

Students in the Organismal/Environmental Biology track are required to take in addition to General Biology I and II, five core courses (Genetics, Ecology, Plant Morphology or Comparative Vertebrate Anatomy, General Microbiology, General Physiology or Plant Physiology) and three biology electives.

Required biology courses.....36-42 credits

- 15201 General Biology I (4)*
- 15202 General Biology II (4)*
- 15320 Genetics (4)
- 15340 Ecology (4)
- 15350 General Microbiology (4)
- 15413 General Physiology (3)**
- OR

- 15425 Plant Physiology (4)
- 15305 Plant Morphology (4)
- OR
- 15307 Comparative Vertebrate Anatomy (5)

Biology electives..... 9-13 credits

Each major candidate is required to complete 3 upper-division courses in biology, with at least one at the 400 level or above.

Required cognate courses.....26-27 credits***

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 22318 Organic Chemistry I (4)
- 64241 Introduction to Statistics (3)
- 64245 Basic Calculus (4)
- OR
- 64251 Calculus I (4)
- 75221 Fundamental Physics I (4)
- OR
- 75201 General Physics I (4)
- AND*
- 22319 Organic Chemistry II (4)
- OR
- 15318 Biological Chemistry (3)

Cell/Molecular Biology

61-66 credits

Students in the Cell/Molecular Biology track are required to take in addition to General Biology I and II, five core courses (Genetics, General Microbiology, Developmental Plant Anatomy or Developmental Biology, Molecular Biology and Cell Biology) and three biology electives.

Required biology courses.....35-39 credits

- 15201 General Biology I (4)*
- 15202 General Biology II (4)*
- 15320 Genetics (4)
- 15325 Principles of Cell Biology (3)
- 15350 General Microbiology (4)
- 15516 Molecular Biology (3)

One of the following:

- 15311 Developmental Plant Anatomy (4)
- 15313 Developmental Biology (4)

Biology electives..... 9-13 credits

Each student is required to take 3 upper-division electives, at least one of which is at the 400 level or above.

Required cognate courses.....26-27 credits***

- 22201 General Chemistry I (4)

- 22202 General Chemistry II (4)
 22318 Organic Chemistry I (5)
 64241 Introduction to Statistics (3)
 64245 Basic Calculus (4)
 OR
 64251 Calculus I (4)
 75201 General Physics I (4)
 OR
 75221 Fundamental Physics I (4)
 AND

Either Organic Chemistry II lecture with lab or Biological Chemistry:

- 22319 Organic Chemistry II (4)
 OR
 15318 Biological Chemistry (3)

* *Should be completed in freshman year, in the sequence indicated.*

** *15415 (General Physiology Lab) is strongly recommended to complement the lecture course, 15413.*

*** *Should be completed prior to senior year.*

Minor in Biology

Minimum of 18 credits

Required courses..... 8 credits

- 15201 General Biology I (4)*
 15202 General Biology II (4)*

A minimum of 10 upper-division credits chosen by advisement.....10 credits

The college also offers an Interdisciplinary minor in Environmental Science. See index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

15111 Introduction to Animal Life (3)

A survey of the animal phyla including the study of structure, metamorphosis, adaptations, and behavior. The development of the students' sensitivity and awareness of what can be learned from careful observations in natural field situations will be emphasized. Designed for non-science majors; does not count toward biology major.

15112 Biology Today (3)

The course will start with a cellular approach to living things and then proceed to organization of cells in multicellular organisms. A consideration of how structure relates to function in plant and animal tissues will follow. Designed for non-science majors; does not count toward biology major.

15115 An Introduction to Plant Life (3)

Introduction to the form and function of plants. The student should acquire an appreciation for plants as living organisms in a biological world, and their economic importance to human beings. Designed for

non-science majors; does not count toward biology major.

15170 Human Biology (3)

A survey in several phases of human biology. Normal life processes will first be explored followed by the alteration and relationship of alterations to life styles. Subject matter will include human physiology, genetics, evolution and behavior. Designed for non-science majors; does not count toward biology major.

15201 General Biology I (4)

An introduction to modern biology: molecular and cellular organization of living systems, energy transformations and metabolism, the principles of classical and molecular genetics, and the basic embryological changes during the development of an organism.

15202 General Biology II (4)

An introduction to modern biology: diversity of life forms, the process of evolution, and the interactions of organisms with their environment and with each other.

15210 Introductory Biology (4)

A one-semester lecture/laboratory general biology course covering most topics discussed in General Biology I and II and serving the same prerequisite role for electives within the Biology Department. Introductory Biology is designed for part-time and transfer students contemplating a major in biology and for students in other disciplines where a foundation in basic biological principles would be helpful. For prospective biology majors to enroll, they must be part-time or transfer students. This course is not open to students who have completed 15201 or 15202.

15301 Field Biology (3)

Diversity in the plant and animal kingdom; sound scientific methods of observation; interrelationships of organisms to each other and to their environment. Importance of the flora and fauna in our economic and cultural life and the need for conservation practices. Field trips are devoted to the study of several ecological units during fall. Identifications of the common plants and animals and the ability to interpret the signs, sounds, and behavior patterns of organisms.

15302 Field Biology (3)

Same general pattern as 15301, but concerns winter and spring phenomena in nature.

15303 Field Biology (3)

Same general pattern as 15301, 15302, but concerns organisms available only during the summer as well as the summer stages in development of plants and animals found during other seasons.

15305 Plant Morphology (4)

Comparative study of life histories, morphology, and phylogenetic relationships of the major plant groups. Prerequisite: PI or 15201 and 15202.

15307 Comparative Vertebrate Anatomy (5)

Gross anatomy and functions of systems of representative vertebrates. Skeletal, muscular, circulatory, digestive, respiratory, excretory, reproductive, nerve, and endocrine systems. Dissection is required. Prerequisite: PI or 15201 and 15202.

15311 Developmental Plant Anatomy (4)

Developmental phenomena and anatomical characteristics of plant cells, tissues, and organs. Prerequisite: PI or 15201 and 15202.

15312 Invertebrate Zoology (4)

Morphology, reproduction, behavior, physiology, geographical distribution, evolution, and economic importance of the main invertebrate phyla.

15313 Developmental Biology (4)

Structural development of an organism from a fertilized egg to the differentiation of organs. Lectures also include regeneration, aging, and cancer. Laboratory work devoted mainly to embryology of the chick. Prerequisite: PI or 15201 and 15202.

15315 Vertebrate Zoology (4)

Morphology, reproduction, behavior, physiology, geographical distribution, evolution, and economic importance of the vertebrate classes. Field and laboratory work devoted to methods of studying and identifying local species.

15318 Biological Chemistry (3)

Study of the chemistry of biologically significant compounds; enzymes and metabolic reactions involved in energy transformations. Prerequisite: 15201, 15202, and 22305.

15320 Genetics (4)

A study of the principles of heredity from classical experiments with *Drosophila* to current research in molecular genetics utilizing recombinant DNA and gene cloning methodologies. The organization, function, and behavior of the genetic material are discussed on the molecular, chromosomal and population levels. The laboratory examines the genetic systems of a variety of organisms. Prerequisite: PI or 15201, 15202, and 22201.

15325 Principles of Cell Biology (3)

An introduction to the structure and function of cells and their organelles. Prerequisite: PI or 15201, 15202, and 22318.

15335 Entomology (3)

Study of insects; their origin, evolution morphology, classification, distribution habits, ecology, and economic importance. Field and laboratory work devoted to methods of collecting, mounting, preserving, and identifying local species.

15340 Ecology (4)

A study of principles and concepts of ecology at the ecosystem, community, population, and organism levels of organization. Laboratory and fieldwork emphasize methods of acquiring, analyzing, and interpreting ecological data. Prerequisite: PI or 15201 and 15202.

15350 General Microbiology (4)

Morphological, biochemical, physiological, and genetic aspects of microbial growth, especially bacteria. Bacterial classification, growth control, and roles in environment and health also considered. Laboratory teaches essential techniques. Prerequisite: PI or 15201 and 15202.

15381 Introduction to Ornithology (3)

Knowledge of birds: their evolution, structure, habits, songs, ecology, and economic importance. Laboratory periods devoted to bird anatomy, life history studies, method of preparing study skins, bird photography, and identification of local species.

15399 Pre-osteopathic Seminar (1)

Third year students participate in-patient care including performing patient interviews and some routine medical procedures, to the extent allowed by state law. Third year students visit the NYCOM campus in the fall for their final interview with the NYCOM admissions committee.

15412 Evolutionary Theory (3)

A survey of evolutionary theory, including population genetics, drift, adaptive mechanisms and application to modern biology. The historical development of the subject will illustrate the philosophy of science. Prerequisite: PI or 15201 and 15202.

15413 General Physiology (3)

Animal physiology is the study of how living animals function. This course is designed to give students a basic understanding of physiological principles relating to cells, organs, and organ systems and the integration of animals (particularly humans) with their environment. Material presented will use several comparative animal models to demonstrate general physiological concepts. Prerequisite: PI or 15201, 15202, 22201 and 22202.

15415 Laboratory Exercises in General Physiology (1)

Laboratory exercises and simulations in animal physiology will explore tissue to organism level physiological processes using animal and human model systems. These exercises involve the practical application of principles discussed in General Physiology (15413) and the demonstration of these principles. The exercises are also designed to introduce the collection, analysis and presentation of physiological data. Prerequisite: 15201, 15202; Co-requisite: 15413.

15418 Animal Behavior (4)

The mechanistic and evolutionary aspects of animal behavior. A survey of systems that illustrate the control, development and function of behavior in a wide variety of animals, including humans. Prerequisite: PI or 15201 and 15202.

15425 Plant Physiology (4)

The principles of plant physiology, development, biochemistry and reproduction. Among the topics examined are: photosynthesis, flowering and reproduction, the control of plant growth and development, hormone and light responses, applications to genetic engineering, plants and civilization, pathology, defense mechanisms and stress physiology. Prerequisite: PI or 15201 and 15202.

15430 Principles of Cell Biology (3)

An introduction to the structure and function of cells and their organelles. Prerequisite: PI or 15201, 15202, and 22318.

15443 Pharmacology (3)

For students in health-related science, the basic principles of drug action, metabolism, interactions, and adverse reactions, and surveys the specifics of the major drug classes. Prerequisite: PI or enrolled in Nursing Program (BSN) or 15201 and 15202.

15445 Pathophysiology (3)

Basic physiology of major organ-systems and major alterations in physiology that lead to pathology. Homeostatic mechanisms and their aberrations are emphasized as the framework of health and disease. Prerequisite: PI or enrolled in Nursing Program (BSN) or 15201 and 15202.

15490 Seminar in Biology (3)

The Seminar course is designed to introduce the advanced student to the process of organizing, writing, and orally presenting selected biological material. Prerequisite: Junior or senior status.

15491 Senior Research in Biology (3)

Individual laboratory and field research under the supervision of a faculty member, resulting in a written report, and an oral presentation to biology faculty and students. Prerequisite: PI and senior status.

Black Studies

Phone: (845) 257-2760

Location: Faculty Office Building West 2

Web address: www.newpaltz.edu/blackstudies

The Black Studies curriculum is multidisciplinary with courses drawn from history, humanities, sociology, psychology, political science, and economics. There is no language requirement, but students interested in travel or study in Africa are encouraged to acquire reading and/or speaking ability in an African language. KiSwahili is offered each semester. The department also offers for credit (for a maximum of three semesters) Voices of Unity, a gospel choir.

Although fieldwork is not required, students majoring in Black Studies are strongly urged to participate for credit in a field activity or internship with organizations and agencies that impact upon the lives of Blacks.

Major in Black Studies

33 credits

Required courses.....12 credits

- 17100 Introduction to Black Studies (3)
- 17201 Black History I (3)
- 17202 Black History II (3)
- 17490 Seminar in Black Studies (3)

Four courses.....12 credits

One each from the historical, humanities, sociopsychological, and political-economic cores.

Historical Core:

- 17101 The Modern World (4)
- 17200 Introduction to Africa (3)
- 17231 The Development of Afro-Latin American Civilization 1492-1825 (3)
- 17232 Contemporary Afro-American Civilization Since 1825 (3)
- 17301 Pre-colonial Africa to 1800 (3)

- 17302 Contemporary Africa: 19th Century to the Present (3)
- 17309 Introduction to Afro-Brazilian History (3)
- 17311 Blacks in the Caribbean, 1492-Present (3)
- 17325 History of Slavery in the Americas (3)
- 17347 History of South Africa (3)
- 17364 History of Black Political Thought (3)
- 17450 The Portuguese in Africa (3)
- 17460 West African Kingdoms in the 19th Century (3)

Humanities Core:

- 17260 Essence of Black Music (3)
- 17263 Black Dance (3)
- 17265 African American Art (3)
- 17267 Survey of Black American Literature (3)
- 17269 Black Poetry and Drama (3)
- 17300 Gospel Choir: Voices of Unity (2)
- 17310 Communications and the Black Community (3)
- 17320 Contemporary Black American Literature (3)
- 17323 Black Poetry (3)
- 17328 Black Drama in America (3)
- 17333 Black Rhetoric (3)
- 17396 Black English: Language and Culture (3)
- 17412 Critical Analysis/Black American Literature (3)
- 17415 Recurrent Themes in Black Literature (3)
- 17493 Selected Topics (1-3)
- 17494 Fieldwork in Black Studies (1-3)
- 17495 Independent Study in Black Studies (2-4)
- 55101 Elementary KiSwahili I (3)
- 55102 Elementary KiSwahili II (3)

Socio-Psychological Core:

- 17221 The Black Woman (3)
- 17271 Black Sociology (3)
- 17340 Psychological Studies of Black Americans (3)
- 17350 Contemporary Social Issues in the Black Community (3)
- 17355 The Black Family (3)
- 17357 Psychology of the Black Child (3)
- 17370 Education in the Black Community (3)
- 17420 Counseling Under-represented Students (3)

Political-Economic Core:

- 17175 Issues in the Education of Under-represented College Students (3)
- 17250 Malcolm X: The Man and His Times (3)
- 17275 Advocacy Journalism in the Black Community (3)
- 17290 The Political Economy of Black America (3)
- 17330 Race and Racism (3)
- 17360 Politics of the U.S.A. and the Black Community (3)
- 17364 History of Black Political Thought (3)

- 17430 Black Organization and Movements in the Twentieth Century (3)
- 17435 Blacks and American Law (3)

Electives..... 9 credits

Each major candidate is required to complete, by advisement, 3 additional Black Studies courses.

Minor in Black Studies

18 credits

Required course..... 3 credits

- 17100 Introduction to Black Studies (3)

Electives.....15 credits

Each minor candidate is required to complete at least 5 courses chosen from at least 2 of the core areas.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

17100 Introduction to Black Studies (3)

Introductory survey course designed to acquaint the student with the methods of research, bibliographies, and key issues pertaining to the Black experience.

17101 The Modern World (4)

Survey of world societies, rise of the west, capitalist world system and challenges to it, cultural and material interchanges among major world civilizations, formation of industrial-urban societies, the political and ideological foundations of current global civilizations.

17175 Issues in the Education of Under-represented College Students (3)

Study of issues related to education of students from under-represented groups. Research data on achievement behavior; academic and social adjustment, and self-examination.

17200 Introduction to Africa (3)

An interdisciplinary approach to the examination of Black America's African heritage to exemplify the methods of historical inquiry and analysis, and the issues raised by conflicting interpretations. Prerequisite: Freshman or sophomore.

17201 Black History I (3)

A survey of Black history from Africa to the 20th century; Americans of African ancestry and the development of their unique status and relationship to American history, as well as to African, Caribbean, and world developments.

17202 Black History II (3)

A continuation of 17201, covering the period from the beginning of the 20th century to the present. May be taken prior to or concurrently with 17201.

17221 The Black Woman (3)

Historical, interdisciplinary examination of the life situation of the Black woman, principally in America. Contributions made by Black women in education, politics, business, and literature. Problems faced by the Black woman, her view of herself, her relation to the Black family, community, other women, and American society.

17231 Development of Afro-Latin American Civilizations (1492-1825) (3)

New World Communities in the Americas initiated by Spain and Portugal from 1492 to 1825. Black contributions to the growth and development of such nations as Columbia, Panama, Venezuela, Ecuador, Argentina, Peru, and Brazil.

17232 Contemporary Afro-American Civilizations Since 1825 (3)

A survey of Afro-Latin American communities since Emancipation and the rise of national racial philosophies after the 1850's in Peru, Argentina, Colombia, and Venezuela. Black participation in politics, literary circles, and labor groups will also be examined.

17250 Malcolm X: Man and Times (3)

A study of the life of Malcolm X as a contemporary Black every man, including an exploration of connections to essential themes in Afro-American and U.S. history.

17260 Essence of Black Music (3)

Survey of the music created and performed by Black people, beginning with its roots in Africa and extending to blues, gospel, jazz, rhythm and blues, and contemporary popular music in the Americas.

17263 Black Dance (3)

Theoretical and practical study of Black dance in Africa, the United States, the Caribbean, and South America. Examination of historical and contemporary forms within a cultural framework.

17265 African American Art (3)

A survey of the contributions of Afro-Americans to painting, sculpture, and other visual arts with a discussion of the African antecedents.

17267 Survey of Black American Literature (3)

A survey of the works of major Black American writers with emphasis on fiction and the essay, but including also biography, poetry, and drama.

17269 Black Poetry and Drama (3)

Critical study and oral reading of Black poetry and drama. Works of representative writers, such as Langston Hughes, Lorraine Hansberry, Wole Soyinka, Dennis Brutus, Gwendolyn Brooks, and Don L. Lee. Themes, styles, and aesthetic philosophies, and impact of both the oral and written traditions in the works.

17271 Black Sociology (3)

From the Black perspective, the sociology of power, racism, and privilege as they affect Black people.

17275 Advocacy Journalism in the Black Community (3)

Journalistic techniques used to communicate with various advocacy groups; to explore and expose community problems and suggest solutions to those problems.

17290 The Political Economy of Black America (3)

The economic base of the Black community and its role in establishing the political agenda of Black America.

17300 Gospel Choir (Voices of Unity) (2)

Contemporary gospel music, emphasizing voice techniques, solo and group performances, and the study of the roots of spiritualism and how it impacts on each individual performer. (Credit bearing limited to three semesters, although participation may continue without acquisition of credit.) Prerequisite: PI (Audition).

17301 Survey of Pre-Colonial Africa to 1800 (3)

African initiatives in the development of sub-Saharan African society, from the coming of the Europeans in the sixteenth century to the decline of the slave trade and the increase in Euro-Asian intrusions in the eighteenth and nineteenth centuries.

17302 Survey of Contemporary Africa: Nineteenth Century to Present (3)

An examination of political and economic change in nineteenth-century Africa, European for Africa, colonialism and under-development, the African drive for independence in the twentieth century, the establishment of independent nation-states, the modernization of African societies, and the liberation movements in southern Africa.

17309 Introduction to Afro-Brazilian History (3)

Introduction to Afro-Brazilian History; contributions of Blacks to Brazilian society from the time of discovery to the present. The slavery and abolition of slavery period will receive considerable attention, as will politics, journalism, culture, and language, and religion.

17310 Communications and the Black Community (3)

Examination of mass communications media as they pertain to the Black community with special emphasis on the historical and contemporary role of the Black press.

17311 Blacks in the Caribbean, 1492-Present (3)

Topics in this history course include slavery, abolition, creolization, Afro-Caribbean traditions in languages, religions, and politics. Belize, Jamaica, Grenada, Barbados, and Martinique, etc.

17320 Contemporary Black American Literature (3)

A sociological, political, and esthetic view of current works by Afro-American poets, prose and dramatic artists.

17323 Black Poetry (3)

Introductory course designed to acquaint students with over 200 years of Black American poetry.

17325 History of Slavery in the Americas (3)

An intensive and comparative study of the institutions of slavery in North and South America.

17328 Black Drama in America (3)

Investigation of the Black contribution to the American stage and the continuing artistic development within the perspective of the changing political, economic, and social scene.

17330 Race and Racism (3)

An examination of race and racism in United States history and their impact on race relations. Early European thought on race is assessed as a foundation stone for a similar mindset that took hold in the United States.

17333 Black Rhetoric (3)

Study and analysis of the speaking of Black leaders, past and present, such as Frederick Douglass, Sojourner Truth, Booker T. Washington, Malcolm X, Martin Luther King, Stokely Carmichael, Eldridge Cleaver, Adam Clayton Powell, Julian Bond, Roy Wilkins, Whitney Young, A. Philip Randolph, and Jesse Jackson.

17340 Psychological Studies of Black Americans (3)

A consideration of investigations and experimentation in the field of human behavior with Black people in America as subjects.

17347 History of South Africa (3)

Socioeconomic and political development of the South African state from 1652 to the present. Particular attention to the interrelationships of the Khoisan and Bantu with Anglo-Dutch; the entrenchment of the apartheid ideology and the rise of African nationalism.

17350 Contemporary Social Issues in the Black Community (3)

Key issues that affect the Black community; social science research that analyzes the problems and suggests solutions.

17355 The Black Family (3)

A socio-psychological analysis of the Black family; its African origins, adaptations to American experience, and strategies for aiding the survival and advancement of its members.

17357 Psychology of the Black Child (3)

By utilizing observations and research the course explores the special cultural, political, and economic forces that shape the physical, cognitive, and emotional development of Black children. The course assumes that Black children are, in general, subject to forces that cause their psychological development to differ from that of the middle class American child studied in traditional child psychology courses.

17360 Politics of the U.S.A. and the Black Community (3)

The relationship of the community to the broader politics of America viewed in historical perspective. Also includes an examination of contemporary techniques for social, political, and economic change in the Black American community.

17364 History of Black Political Thought (3)

Comparative and historical study of the development of Black political thought from the seventeenth century to the present.

17370 Education in the Black Community (3)

Sociological, political and psychological issues that impact upon the educational goals, resources, and results of Black Americans; various meanings, functions, and goals of education for the Black community.

17396 Black English: Language and Culture (3)

Theories of origin, structure, and semantics of Black English in America; comparisons with Standard American English and African-based English languages of Africa and the Caribbean; Black English and related lifestyles, such as the oral tradition, as cultural phenomena; language use and public policy.

17412 Critical Analysis of Black American Literature (3)

Methods and tools of criticism of literature by or about Black Americans.

17415 Recurrent Themes in Black Literature (3)

Examination of the themes of man/womanhood, identity, and alienation as they have been developed in African-American literature. Development of these themes in oral and written literature in various generations.

17420 Counseling Under-represented Students (3)

Peer counseling of freshman students of under-represented groups. Study of theories and approaches to counseling; achievement behavior; goal setting; academic and social adjustment; and self-examination. Students study and discuss the literature and interact with freshmen assigned to them.

17430 Black Organization and Movements in the Twentieth Century (3)

Historical development of various tendencies in the Black people's movement from the Dubois-Washington controversy, the organization of the Niagara Movement, the NAACP, the Garvey Movement, the Urban League, Brotherhood of Sleeping Car Porters, Blacks in the CIO, National Negro Congress, CORE, SNCC, Black Muslims, Southern Christian Leadership Conference, and Black Panthers to possible perspectives for the twenty-first century.

17435 Blacks and American Law (3)

Analysis of major judicial decisions, legislation, and constitutional rights affecting Blacks in relation to the historical and contemporary bases and ramifications of the denial of their rights. Prerequisite: 17100.

17450 The Portuguese in Africa (3)

A seminar on Portuguese expansion and involvement in Africa from the 15th century to the present. Examination of the motivating factors from the initial Portuguese expansion into Africa, giving consideration to Portugal's position in Medieval Europe, her uneconomic exploits along the East African Coast, historical basis for entrenchment in Mozambique and Angola, African reaction against Portuguese intrusion, and problems of development of Portuguese-speaking/African independent nation-states.

17460 West African Kingdoms in the Nineteenth Century (3)

A seminar in the historiography of West African Kingdoms in the nineteenth century. Resilience and dynamism implicit in African economic and political institutions in a century that has been characterized as very revolutionary. Prerequisite: PI or 17301 or 17302.

17490 Seminar in Black Studies (3)

Topics and faculty vary from semester to semester. Emphasis on student research and the writing of a major seminar paper. Required of Black Studies majors. Prerequisite: 17100, 17201, and 17202.

Communication and Media

Phone: (845) 257-3450

Location: Coykendall Science Building Room 51

Web address: www.newpaltz.edu/comm_media

The Department of Communication and Media consists of distinct majors in Communication, Journalism, Public Relations, and Radio and Television (Electronic Media). All the Department's majors lead to either the bachelor of arts or bachelor of science degree, blending technical and theoretical courses that can lead to graduate study or a variety of careers, from journalism to radio-television to public relations to corporate and public communication.

Students wishing to declare a major in any area of this department must have completed a minimum of 30 credits of college-level work and have at least a 2.00 GPA. Acceptance into the Radio/Television Production and Public Relations area is limited. See the Department office, web page, or Admissions for specific requirements and deadlines.

The Journalism and Radio/Television programs are housed in a building wing with two computer labs for writing; one computer lab for editing and graphics; two video editing suites, including computers for multi-media production; and two audio studios complete with editing facilities. There are also two lounges and a reading-seminar room for students taking courses in Communication and Media.

Students may not receive a grade lower than "C-" in any course considered part of the student's major program.

For more information about the Journalism and Public Relations majors look under "Journalism Program".

Majors in Communication

40 credits

The major in Communication emphasizes an understanding of communication principles and humanistic approaches to communication studies as well as the development of skills in political, organizational, and interpersonal contexts. The major provides a foundation for graduate work or for a career in any profession that deals with the public, such as politics, law, business, social work, or teaching. Students majoring in Communication may focus their course work by choosing one or more of the following concentrations: Public Communication, Organizational Communication, or Interpersonal-Intercultural Communication.

Required Introductory Courses..... 6 credits

- 90102 Introduction to Communication (3)
- 90104 Public Speaking (3)

Required Intermediate Courses..... 6 credits

Choose two:

- 90202 Interpersonal Communication (3)
- 90204 Discussion (3)
- 90213 Performance of Literature (3)
- 90357 Argumentation (3)

Required Theory Courses..... 4 credits

Choose one:

- 90353 Theories of Persuasion (4)
- 90354 Communication Research Methods (4)

Concentration.....12 credits

Majors must complete one concentration including a seminar that is considered the capstone course.

Concentration 1: Public Communication

Select 3 courses in addition to the seminar.

- 77319 Politics and Media (3)
- 90356 Communication and Dissenting Voices (3)
- 90433 Aesthetics and Criticism of Television (3)
- 90451 Political Communication (3)
- 90452 Communication and Gender (3)
- 90453 Contemporary Communication Seminar (3)

Concentration 2: Organizational Communication

Select 3 courses in addition to the seminar.

- 53315 Public Relations 1 (3)
- 90221 Introduction to Advertising (3)
- 90359 Communication Among Cultures (3)
- 90360 Organizational Communication I (3)
- 90431 Electronic Media Sales and Promotion (3)
- 90450 Negotiation (3)
- 90454 Organizational Communication Seminar (3)

Concentration 3: Interpersonal-Intercultural Communication

Select 3 courses in addition to the seminar.

- 07215 Cultural Anthropology (3)
- 87379 Sociology of Interpersonal Relationships (3)
- 90355 Non-verbal Communication (3)
- 90358 Conflict Management (3)
- 90359 Communication Among Cultures (3)
- 90452 Communication and Gender (3)
- 90455 Interpersonal Communication Seminar (3)

Elective Communication Courses.....12 credits

(at least 6 upper-division credits)

Radio/Television (Electronic Media)

40 credits

Majors in Radio/Television Production may choose from one of two tracks: management or production. Management majors prepare in areas such as advertising, global media systems, law, research, and programming. For management positions across the various media. Majors in the production track learn how to use the tools necessary to create mediated messages, but more importantly they learn how the technology allows them to communicate effectively. Acceptance to the

Production major is limited. You must have 30 credits, completed or be in the process of completing the core and have a 2.50 GPA before you can apply.

Transfer students are reminded that at least one-half of the major course work (a minimum of 20 credits) must be completed at New Paltz. Our internship program also requires applicants to maintain a 2.50 GPA, both overall and within the major. No grade lower than a "C-" will count toward the major requirements.

Management Track

Core Courses.....12 credits

- 90101 Media and Society (3)
- 90224 Media Management and Economics (3)
- 90319 Electronic Media Writing (3)

Select one of the following:

- 90104 Public Speaking (3)
- 90203 Radio & Television Performance (3)
- 90204 Discussion (3)
- 90357 Argumentation (3)
- 91334 Speech for the Stage (3)

Required Courses.....14 credits

- 90322 Electronic Media Programming (4)
- 90323 Communication Technology (3)
- 90350 Media Research Methods (4)

OR

- 90354 Communication Research Methods (4)

Select one of the following:

- 90431 Advertising Sales (3) [Prerequisite: 90221]
- 90433 Aesthetics and Criticism of TV (3)
- 90434 International Media Systems (3)
- 90454 Organizational Communication Seminar (3) [Prerequisite: 90353 or 90354]

Select three of the following courses:..... 9 credits

- 53452 Mass Media Law (3)
- 90331 Broadcast and Cable History (3)
- 90353 Theories of Persuasion (4)
- 90370 Organizational Communication (3)
- 90431 Advertising Sales (3)
- 90432 TV in American Culture (3)
- 90434 International Media Systems (3)
- 90450 Negotiation (3)

Elective Courses..... 6 credits

Three (3) credits must be upper division, up to three (3) may be from outside the department given advisor approval, and up to three (3) credits of internship can count as electives.

Production Track

Core Courses.....12 credits

- 90101 Media and Society (3)
- 90224 Media Management and Economics (3)
- 90319 Electronic Media Writing (3)

Select one of the following:

- 90104 Public Speaking (3)
- 90203 Radio & Television Performance (3)
- 90204 Discussion (3)
- 90357 Argumentation (3)
- 91334 Speech for the Stage (3)

Required Courses (to be taken in sequence).....16 credits

- 90320 Audio Production (4)
- 90340 Studio Video Production (4)
- 90440 Portable Video Production (4)
- 90445 Seminar in Production (4)

Elective Courses.....12 credits

Nine credits must be upper division and only three credits may come from an internship. Electives are to be chosen from the following:

- 90221 Introduction to Advertising (3)
- 90322 Electronic Media Programming (4)
- 90323 Communication Technology (3)
- 90331 Broadcast & Cable History (3)
- OR
- 53347 Media Ethics (3)
- 90339 Electronic Media Law & Regulations (3)
- OR
- 53452 Mass Media Law (3)
- 90350 Media Research Methods (4)
- 90419 Screenwriting (3)
- 90432 TV in American Culture (3)
- 90433 Aesthetics & Criticism of TV (3)
- 90434 International Media Systems (3)
- 90490 Internship in Communication/Media (1-14)
- 90491 Internship Seminar (1)

Minor in Communication

18 credits

Required Courses..... 6 credits

Select one of the following:

- 90101 Media and Society (3)
- 90102 Introduction to Communication (3)

Select one of the following:

- 90104 Public Speaking (3)

- 90201 Voice and Articulation (3)
90202 Interpersonal Communication (3)
90213 Performance of Literature (3)

Elective Courses.....12 credits

Select any four communication courses by advisement; three of these must be upper-division level.

Communication and Media

Liberal Arts Designation

The following courses may not be counted toward the liberal arts requirement: 90320, 90340, 90440, 90445, 90490.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

90101 Media and Society (3)

Introduction to the history, content, economics, regulation and effects of the major American mass media (books, newspapers, magazines, film, radio, sound recordings and television) and new media, including the Internet.

90102 Introduction to Communication (3)

Survey of the study of human communication including: the classical origins of the discipline; the value and impact of symbols; the role of communication in human behavior.

90104 Public Speaking (3)

Communicating an idea successfully to an audience in a one-to-many speaking situation. Emphasis on creating, researching, organizing, and presenting speeches.

90202 Interpersonal Communication (3)

Communicating successfully in personal and social relationships. Survey of the human element in communication with a focus on skills in self assertion, listening, perception, and understanding relationships.

90203 Radio-Television Performance (3)

Theory and practice of performance using the technology of radio and television, including announcing, interviewing, news casting, and discussion. Prerequisite: PC.

90204 Discussion (3)

Problem solving in decision-making committees. Survey of group processes in task-oriented contexts. Practice in the techniques of organizing, leading, and participating in effective group discussions.

90213 Performance of Literature I (3)

Introduction to performance reading. The student selects, edits, explicates and prepares orally for performance, works of prose, poetry and dramatic literature.

90221 Introduction to Advertising (3)

Principles, practices, and theories of modern advertising communication ranging from planning and execution to research and social effects. Prerequisite: 90101 or PI.

90224 Electronic Media Management and Economics (3)

Principles, functions, and elements of media management and economics. Emphasis on broadcast, cable, film, music, satellite, and the web. Topics range from finance to regulation and ownership patterns to technological impact. Prerequisite: 90101.

90319 Electronic Media Writing (3)

Theory and practice in copy writing, electronic journalism, and radio/television drama. Includes commercials, program promotions, teleplay and television series writing. Prerequisite: PC and 41160, 41180 and 90101.

90320 Audio Production (4)

Lecture and practical application of techniques and procedures in audio production for radio and audio for video, including tape formats, audio consoles, microphones, and digital editing. Prerequisite: Media Core and PC. Majors only.

90322 Electronic Media Programming (4)

Analysis of broadcast and cable network and station programming. Includes coverage of program development, research, scheduling, evaluation, networks, stations, syndication, and business practices. Prerequisite: Media Core and PC. Majors only.

90323 Communication Technology (3)

A survey of the new communication technologies in broadcasting, cable, consumer electronics, satellites, fiber optics, digital, telephony, wireless, and the Internet. Course covers basic operation, application, and integration of various media technologies in both business and consumer environments. Prerequisite: 90224.

90331 Broadcast and Cable History (3)

A survey of the history of radio, broadcast television, and cable. This course focuses on the political, economic, social and cultural forces that influenced their evolution and development, as well as contemporary trends and issues. Prerequisite: 90101.

90339 Electronic Media Law and Regulations (3)

Introduction to the legal and regulatory concerns of the electronic media. Topics include F.C.C. and other government regulatory agencies, public interest, copyright, indecency, professional organizations and self-regulation. Prerequisite: PI or 90101.

90340 Studio Video Production (4)

Creative approaches and techniques of television production, emphasizing studio lighting, camera movement, directing and technical directing. Analysis, discussion, and practice in aesthetics and content quality. Prerequisite: Core, 90320, and PC. Majors only.

90341 Cultural Diversity in U.S. Film (3)

American films will be viewed from social, historical and cultural perspectives. Films portraying various cultural groups will be compared and analyzed to reveal changes in 20th century representations. Current trends will be emphasized. Prerequisite: Two freshman English

courses.

90350 Media Research Methods (4)

Theory, design, and analysis of research in mass media. Includes coverage of surveys, ratings, statistics, reporting, and computer usage. Prerequisite: Media Core and PC.

90353 Theories of Persuasion (4)

Analysis of social aspects of persuasion, cultural bases for belief, and theories of attitude change. Principles and processes of motivating human behavior in a variety of contexts.

90354 Communication Research Methods (4)

A survey of the diverse methods of inquiry that are most commonly used by researchers in communication studies including the Internet.

90355 Non-verbal Communication (3)

Survey of the vocabulary, theoretical principles and research in non-verbal communication. Topics include: physical appearance; gesture; posture; touch; facial expressions; eye behavior; vocal cues; and the use of time and territory.

90356 Communication and Dissenting Voices (3)

Study and analysis of the discourse of minority leaders, past and present. The course treats the public dialogue between dominant and marginalized voices in American society.

90357 Argumentation (3)

Principles and techniques of advocacy, including the establishment of claims, the requirements of proof and the standards of evidence. Surveys the field of argumentation in social and philosophical settings.

90358 Conflict Management (3)

Exploration of antecedents, processes, and outcomes associated with conflict communication in friendships, courtships, marriages, divorces and the workplace.

90359 Communication Among Cultures (3)

Understanding how culture shapes our perceptions and communication behaviors. Strategies for effective cross-cultural and intercultural communication.

90360 Organizational Communication I (3)

Overview of communication processes in large-scale, hierarchical organizations. Emphasis on interviewing, committee decision-making, and developing business/professional presentations.

90413 Sociolinguistics (3)

This course will examine the relationships between language and society, and language and culture. It will investigate how language varieties interact with other social characteristics such as class, gender, ethnicity, race, and age. To accomplish this the course will have an interdisciplinary focus. Students will explore topics on regional and social variation in language usage; language change, maintenance and shifts; boundary markers and identity formation; language usage in multilingual communities; the nature of speech and discourse communities; and discourse analysis. In addition, the course will examine

specific topics in macro-sociolinguistics such as national languages and language planning, as well as applied issues such as the relationships between sociolinguistics and education.

90419 Screenwriting (3)

Essential steps for creating screenplays for film and television. Visual thinking, critical analysis, character, plot, structure, dialogue, and rewriting to create treatments and scripts. Prerequisite: 41160, Freshman Composition I, 41180, Freshman Composition II, and 90319, Electronic Media Writing or PI.

90431 Advertising Sales and Promotion (3)

Theory, research, and practice of media advertising sales and promotion. Analysis and development of sales presentations and electronic media marketing campaigns. Special attention to marketing research, ratings, and circulation. Prerequisite: 90221 or PI.

90432 Television in American Culture (3)

Survey of research, concepts and problems associated with television viewing. Interaction of TV effects with audience uses and gratifications, construction of meaning.

90433 Aesthetics and Criticism of Television (3)

Analysis of major critical communication theories as they apply to television programming.

90434 International Media Systems (3)

An examination of the media systems of other countries, with special emphasis on the effects geo-political and cultural forces have on the development of specific mass communication channels throughout the world. Prerequisite: 90101.

90440 Portable Video Production (4)

Creative and technical approaches to portable video production and post-production editing. Includes discussion and practice of preproduction planning for location work, technology and use of equipment, production aesthetics, and related business/legal considerations. Prerequisite: Core, 90320, 90340 and PC. Majors only.

90445 Seminar in Production (4)

Capstone course in radio/television production. Emphasis on program proposals, writing, producing, advanced production techniques and post-production using digital technology. Students will complete a production thesis such as a documentary or short drama. Prerequisite: Media Core, 90320, 90340, 90440, and PC. Majors only.

90450 Negotiation (3)

Communication strategies for surviving conflicts in organizational settings. Analysis and application of theoretical models of conflict management.

90451 Political Communication (3)

Examines the principles and practices of political communication by exploring the structure and strategies of presidential and legislative discourse. Topics include the impact of mass-mediated political messages and the rhetorical functions of political campaigns.

90452 Communication and Gender (3)

Influences of gender on language, speech and communication pragmatics. Topics discussed within a

variety of communication contexts.

90453 Contemporary Communication Seminar (3)

Critical methods and new directions in the interpretation of rhetorical discourse. Nature and function of criticism. Analysis of rhetorical situations and collective rhetoric. Survey of neo-Aristotelian, generic, and dramatic critical orientations. Prerequisite: 90353 or 90354.

90454 Organizational Communication Seminar (3)

Synthesis of research regarding the role of communication in large, complex organizations. Study and application of research methods for analyzing organizational variables that affect communication behavior. Prerequisite: 90353 or 90354.

90455 Interpersonal Communication Seminar (3)

Synthesis of research regarding the role of communication in interpersonal relationships. Study and application of research methods for analyzing interpersonal variables that affect communication behaviors. Prerequisite: 90353 or 90354.

90490 Internship in Communication/Media (variable credit)

Internship in communication, electronic media, advertising, public relations, and journalism. Satisfactory/Fail. Prerequisite: 2.50 GPA and 18 credits in communication and PI. Must apply term before. Co-requisite: 90491.

90491 Internship Seminar (1)

The analytical component to internship experience. Students produce daily logs, professional article reviews, and a final project with accompanying analysis. Co-requisite: 90490.

Communication Disorders

Phone: (845) 257-3620

Location: Humanities Room 14A

Web address: www.newpaltz.edu/commdis

Undergraduate programs in Communication Disorders have been offered at SUNY New Paltz since 1969. These programs prepare students for careers in speech-language pathology, audiology, and related areas such as deaf education. The department offers both a liberal arts major program and a speech education major program that leads to a New York State teaching certificate. The department also offers ASHA-accredited graduate programs in Communication Disorders, with concentrations in Speech-Language Pathology, Speech and Language Disabilities (with teaching certificate) and Audiology.

The department provides pre-major advisement. Students who are potentially interested in majoring in Communication Disorders are urged to contact the department early in their academic careers.

Facilities

The newly renovated SUNY New Paltz Speech and Hearing Center serves the community while providing students with on-site clinical training. The Center serves over 1,000 individuals each year, providing a full range of diagnostic and therapy services in both speech-language pathology and audiology. Services are coordinated by full-time supervisory staff. All supervisors hold ASHA

certification and NYS licensure.

Facilities for Speech-Language Pathology include five speech therapy suites and a diagnosis room with audio and video observation systems, as well as a student preparation room. The Center has a comprehensive collection of therapy materials and diagnostic tests, and computer-based instrumentation systems for diagnosis and therapy.

The Audiology clinic includes two sound-proofed audiometric test suites, intake and hearing aid dispensing areas, a room for auditory-evoked potential testing, and a hearing aid dispensing area. Equipment is state-of-the-art, including audiometers, immittance bridges, evoked potential units, otoacoustic emissions, and real-ear measurement system. A PC-based system is used in the dispensing of programmable digital hearing aids.

The Center also has a pleasant waiting room with areas for adults and children, a classroom (with one-way observation into the diagnostics room) and a computer classroom with nine Pentium PCs and a network printer.

Additional resources may be found in the Sojourner Truth Library, which holds an extensive collection of books, journals, and clinical test materials. The library also subscribes to relevant electronic databases.

Major Plans

Major plans and additional information are listed below. The department provides pre-major advisement. Students who are potentially interested in majoring in Communication Disorders are urged to contact the department early in their academic careers.

Academic Track

48 credits

The Communication Disorders “Academic Track” (major code 588) is a liberal arts major which prepares students for graduate study in speech-language pathology, audiology or related areas. Electives in American Sign Language and deaf studies are available. Students may begin this 48-credit major prior to or during the fall of the junior year. A minimum grade point average of 2.80 is required for entrance into the major.

Communication Disorders

48 credits

Required Core Courses.....27 credits

- 88301 Speech Science (3)
- 88302 Phonetics (3)
- 88305 Hearing Science (3)
- 88306 Language Development in Children (3)
- 88310 Anatomy & Physiology of the Speech and Hearing Mechanism (4)
- 88312 Introduction to Communication Disorders (3)
- 88401 Observations in Communication Disorders (2)
- 88405 Tests and Assessments (3)
- 88417 Audiology (3)

Additional Required Courses.....12 credits

- 88409 Introduction to Aural Rehabilitation (3)
- 88415 Disorders of Child Language (3)
- 88416 Articulatory and Motor Speech Disorders (3)
- 88418 Disorders of Prosody and Voice (3)

Elective Courses..... 6 credits

To be selected from:

- 88202 Deaf Culture and Heritage (3)
- 88260 Sign Language I (3)
- 88361 Sign Language II (3)
- 88407 Speech Perception and Hearing Impairment (WI) (3)
- Other - by advisement

Communication Skills Elective Course..... 3 credits

To be selected from:

- 90104 Public Speaking (3)
- 90202 Interpersonal Communication (3)
- 90204 Discussion (3)
- 90213 Performance Literature (3)

NOTES:

1. A 2.8 grade point average is the minimum criterion for admission to the major.
2. Grades below C- in Communication Disorders courses are not accepted.
3. A 2.0 Communication Disorders course average is required for degree application.

Certification Track

85 credits—(61 undergrad & 24 graduate)

The Speech and Language Disabilities “Certification Track” (major code 790) leads to the New York State initial certificate as a Teacher of Students with Speech and Language Disabilities. This unique program is linked to the graduate program in Communication Disorders. Students begin in the “Academic Track” (588) major, and apply for admission to the certification track major during the spring of the junior year. Students who are accepted are guaranteed admission to the graduate program as long as academic and clinical performance remain satisfactory. The bachelors degree and initial certificate are awarded en route to the masters degree, allowing students to work in area schools while completing the program. A minimum grade point average of 3.00 is required for entrance into the major.

Students who wish to enter the 790 major must first declare the 588 “Academic Track” major and complete a core of prerequisite course work. After completing this core, students may either apply to the 790 program, or continue on to complete the 588 major program. Applications to the 790 program are due in the department office by March 1 of the junior year. The application includes a personal statement, three letters of reference, GRE or MAT scores, and transcripts.

During the senior year, students in the 790 major track take a mixture of undergraduate and graduate courses, including pedagogy course work, the clinical participation sequence (88402, 88403), and six communication disorders courses (three undergraduate and three graduate). During the year beyond what would normally be graduation with the bachelors degree, students complete two more graduate education courses and two pedagogy-based courses in speech-language pathology (Early Intervention and Augmentative Communication). Additional clinical practicum on campus and the off-campus student teaching placement (with seminar) also are completed during this year.

Students receive the bachelors degree and are recommended for the initial certificate (T.S.S.L.D.) At the end of this year, and are matriculated as graduate students (program code 090). Thereafter, students complete a 30-credit graduate major plan, which can be done through part-time study if the student choose to work under the initial certificate — (T.S.S.L.D.). A synopsis of a typical time-table for completion of the program and proposed major plan follow.

Communication Disorders

85 credits

Speech and Language Disabilities

Prerequisite Courses.....30 credits

- 88301 Speech Science (3)
- 88302 Phonetics (3)
- 88305 Hearing Science (3)
- 88306 Language Development in Children (3)
- 88310 Anatomy & Physiology of the Speech and Hearing Mechanism (4)
- 88312 Introduction to Communication Disorders (3)
- 88401 Observations in Communication Disorders (2)
- 88405 Tests and Assessments (3)
- 88415 Disorders of Child Language (3)
- 88417 Audiology (3)

Required Courses.....19 credits

A. Science Requirement (6)

- 88508 Speech Physiology (3)
- 88509 Articulary Phonetics (3)

B. Speech, Language, and Hearing Disorders (13)

- 88406 Diagnosis in Speech-Language Pathology (4)
- 88409 Aural Rehabilitation (3)
- 88418 Disorders of Prosody and Voice (3)
- 88504 Phonological Disorders (3)

Elective Courses..... 3 credits

- 90104 Public Speaking (3)
- 90202 Interpersonal Communication (3)
- 90204 Discussion (3)
- 90213 Performance of Literature (3)

Education Courses.....20 credits

- 38340 Sociological and Philosophical Foundations of Education (3)
- 38371 Child Psychology and Development (3)
- 3X5XX Literacy Course (see list of approved courses) (3)
- 88510 Organization of Speech, Language, and Hearing Programs in the Educational Setting (2)
- 88520 Augmentative Communication (3)
- 88521 Early Intervention (3)

Clinical Practicum.....13 credits

- 88402 Clinical Participation I (2)
- 88403 Clinical Participation II (2)

- 88411 Student Teaching — Speech and Language Disabilities (8)
 88503 Practicum in Speech Language-Pathology (1)

NOTES:

1. Admission into this major is by application only, during the semester in which the prerequisite courses are completed (March 1 of the junior year). A minimum 3.0 GPA is required for admission to the major.
2. Acceptance into this major GUARANTEES the student a place in the graduate program leading to the M.S. in Communication Disorders (Speech-Language Disabilities Concentration), as long as academic and clinical performance are satisfactory (3.0 minimum GPA, grades of S in Clinical Participation I & II).
3. Grades below C- in Communication Disorders courses are not accepted.
4. Students who fall below a 3.0 minimum GPA in Communication Disorders courses will be ineligible for the student teaching placement and will graduate at the end of the senior year under the 588 “academic track” major.
5. NYS Department of Education Examinations: Liberal Arts & Sciences Exam (LAST) and Assessment of Teaching Skills - Written (ATS-W) must be taken during the last year of the program.
6. Seminars in Child Abuse Prevention and School Safety must be taken during the last year of the program.

**Timetable for Completion of the Linked B.A./M.S. in
 Communication Disorders – Speech and Language Disabilities**

Time Line Relative to Matriculation (Freshman Yr)	Program/Activity
Freshman/Sophomore Yrs	General Education requirement at SUNY New Paltz or other institution
Spring, Sophomore Yr	Declare undergraduate 588 “academic track” major or gain acceptance into this major as a transfer for the fall of the junior year (minimum G.P.A. of 2.8)
Junior Yr	Take 30 credits prerequisites course work as a 588 “academic track” major
March 1, Junior Yr	Application for linked program B.A./M.S. in Speech and Language Disabilities due in Department Office (minimum G.P.A. of 3.0)
Senior Yr	Matriculate in linked B.A./M.S. Take courses in Comm. Dis. & Education, start on-campus practica.
Year 5	Continue with program and practica, complete student teaching placement if eligible. (If academic and clinical performance are not satisfactory, the student graduates at the end of year 4 or the first semester of year 5 in the 588 “academic track” major.)
May, Year 5	B.A. awarded, student recommended to NYSED for initial certificate (T.S.S.L.D.)
Year 6 Or Years 6-8	Students may continue in the program full time and complete all remaining requirements for the M.S. within one year. OR Students may continue in the program while working under the initial certificate (T.S.S.L.D.). First year must be in a mentored teaching situation.)
Completion of all requirements for M.S. (30 credits)	M.S. awarded. Graduate recommended for: (1) Professional Certificate (T.S.S.L.D.), (2) N.Y.S. Licensure in Speech-Language Pathology, (3) A.S.H.A. certification

Major Plans

Major plans and additional information are available in the department office. The department also offers pre-major advisement. Students who are potentially interested in majoring in Communication Disorders are urged to contact the department early in their academic careers.

Liberal Arts Designation

The following courses may not be counted toward the liberal arts requirement: 88201, 88402, 88403, 88410, 88411.

Courses

88201 Voice and Articulation (3)

Based on elementary study of the structure and function of the speech mechanism, provides training for the improvement of voice production and speech sound formation. Does not count toward the major.

88202 Deaf Culture and Heritage (3)

Through readings, films, discussions and assignments, students will gain an appreciation for the nature and evolution of Deaf Culture and the challenges faced by the deaf in society, both in the past and currently. The course also provides background on the history of American Sign language and on trends in deaf education in the U.S.A.

88260 Sign Language I (3)

An investigation of visual-gestural communication systems used by deaf and hearing impaired people. Vocabulary building and communication skill practice in the American Sign Language.

88301 Speech Science (3)

Principles of acoustic phonetics and speech perception. Prerequisite: 88310.

88302 Phonetics (3)

The sounds of speech, their manner of production, their combinations and diacritical marks, and phonetic symbols. Training in the use of the International Phonetic Alphabet.

88305 Hearing Science (3)

The physics of sound, the decibel, physiology of hearing, and psychoacoustics. Prerequisite: 88310.

88306 Language Development in Children (3)

The nature of speech and language development in young children.

88310 Anatomy & Physiology of the Speech and Hearing Mechanism (4)

Basic anatomy and embryological development of the speech and auditory systems. The course also provides basic understanding of the physiology of respiration, articulation, phonation, and hearing.

88312 Introduction to Communication Disorders (3)

Survey of the field of speech-language pathology. Nature and etiology of disordered speech and language and basic principles of rehabilitation.

88361 Sign Language II (3)

American Sign Language communication skills at the intermediate level. Small group discussion, conversational practice, and signed public address. Class conduct partially in A.S.L. Prerequisite: 88260.

88401 Observations in Communication Disorders (2)

An introduction to clinical procedures, policies and theories of Communication Disorders. Clinical observations in the New Paltz Speech and Hearing Center and off-campus. Prerequisite: PI. Co-requisite: 88312.

88402 Clinical Participation I (2)

Therapeutic procedures in the management of disorders of oral communication. First level direct clinical experience through assisting student teachers and graduate students in individual therapy programs at the New Paltz Speech and Hearing Center. Planning of long- and short-term goals, development of lesson plans, selection of appropriate materials and clinical procedures, use of clinical instrumentation, ongoing diagnosis, and accurate written reporting of these experiences. Prerequisite: PI and matriculated status (788).

88403 Clinical Participation II (3)

Therapeutic procedures in the management of disorders of oral communication. Participation in the management of a variety of speech and language disorders, including planning programs of individual therapy, evaluation of therapeutic progress. Grading is pass/fail. Prerequisite: PI and matriculated status (788).

88405 Tests and Assessment of Communication Disorders (3)

An introduction to assessment of communication disorders. Students will be provided an overview of purposes and methods of speech/language evaluation. Standardized published tests will be critically examined. Students will practice administering, scoring, and writing summaries of these and of alternative assessment procedures. Prerequisite: 88302, 88306, 88312.

88406 Diagnosis in Speech-Language Pathology (4)

Philosophical and scientific considerations; basic principles and selected methods of diagnosis and appraisal of speech disorders; interprofessional relationship and referral procedures. Prerequisite: PC.

88407 Speech Perception and Hearing Impairment (3)

The effects of hearing impairment on the perception and production of speech. Prerequisite: 88302 and 88305.

88409 Introduction to Aural Rehabilitation (3)

Audiologic management of hearing impairment, with emphasis on children. Rehabilitation strategies including early intervention, counseling, hearing aids, FM systems, assistive devices, cochlear implants, tactile aids; speech and language training; educational issues. Prerequisite: 88417 or PI.

88411 Student Teaching and Clinical Practice in Speech and Hearing (13)

Supervised experience in teaching children with speech and language disabilities. Includes conferences on teaching problems and speech/language improvements. Prerequisite: PI and matriculated status (788). Co-requisite: 88510.

88415 Disorders of Child Language (3)

Study of the etiology and nature of language disorders. Preliminary assessment and treatment principles and techniques. Emphasis on physiological, morphological, syntactical, and pragmatic disorders in children. Prerequisite: 88302, 88306, 88312.

88416 Articulatory and Motor Speech Disorders (3)

This course begins by exploring the development of the articulation in children. The developmental and non-developmental phonological processes, by which children simplify speech, are studied in both the typical and atypical language learners. In addition, normal development and disorders of the motor speech system will be investigated. Apraxia and the various dysarthrias will be discussed in detail in terms of etiology, assessment techniques, differential diagnosis and techniques for remediation.

88417 Audiology (3)

The etiology of hearing disorders; principles and methods of audiometric assessment including pure tone and speech audiometry, screening, tympanometry, and acoustic reflex assessment; the interpretation of audiometric test results; audiologic management and follow up. Prerequisite: 88310 or PI.

88418 Disorders of Prosody and Voice (3)

Critical evaluation of etiological concepts. Basic principles and selected methods of appraisal and treatment of prosody and voice disorders in children and adults. Prerequisite: 88312.

88462 Sign Language III (3)

Advanced instruction in American Sign Language and deaf culture. Prerequisite: 88260 and 88361.

Economics

Phone: (845) 257-2969

FAX: (845) 257-3581

Location: Jacobsen Faculty Tower Room 814

Web address: www.newpaltz.edu/economics

The Department of Economics offers a program leading to a Bachelor of Arts/Bachelor of Science in Economics. It is designed to prepare students for graduate work in economics and in business administration as well as for entry-level professional jobs in industry, government, and non-profit organizations.

Within the economics program students may concentrate in Business Economics or International Economics, or they may choose a General Economics program. Students intending to pursue graduate study in either economics or business administration are advised to follow the general program. Since graduate programs expect competence in mathematics we strongly recommend that students complete Calculus I and II.

The concentration areas within the program are specifically designed to enable students to combine a liberal arts orientation with their individual graduate work/career objectives. Prospective majors in economics are strongly advised to seek faculty advice in planning their program consistent with their career goals and objectives.

Students should be aware of prerequisite requirements on all courses and may not register for courses when the prerequisite requirements have not been met. Senior Seminar in Economics is a capstone for the majors, thus all of the core requirements should be completed prior to taking it.

Major in Economics

42-43 credits

Core Requirements.....27-28 credits

20309 Statistics for Business and Economics I (3)

20311 Statistics for Business and Economics II (3)

25XXX An introductory Computer Course (3 or 4)

33206 Introduction to Microeconomics (3)

- 33207 Introduction to Macroeconomics (3)
- 33306 Theory of Price (3)
- 33307 National Income Analysis (3)
- 33351 History of Economic Thought (3)
- 33450 Senior Seminar in Economics (3)

Concentration

15 credits

All students must select one of the following concentrations:

General Economics

Any five upper-division economics courses not already used to satisfy the core requirement.*

* 20341 Fundamentals of Corporate Finance may be substituted for one of the Economics courses.

Business Economics

Three of the following:

- 20341 Fundamentals of Corporate Finance (3)
- 33303 Money and Banking (3)
- 33304 Public Finance (3)
- OR
- 33305 State and Local Public Finance (3)
- 33312 Labor Economics (3)
- 33404 Economics of Regulation and Antitrust (3)

AND

Any two upper-division economics courses not already used to satisfy the above.

International Economics

Required:

- 33401 International Trade and Finance (3)
- AND**
- 33302 Comparative Economic Systems (3)
- 33418 Economics of Development (3)

* Certain selected topics courses such as Economic Development of Pacific Asia may be substituted.

Two of the following:

Any upper division economics course not already used to satisfy the above.

Minors in Economics (General)

15 credits

Required:

- 33206 Introduction to Microeconomics (3)
- 33207 Introduction to Macroeconomics (3)
- Choice of three of the following:*
- 33303 Money and Banking (3)
- 33304 Public Finance (3)
- 33306 Theory of Price (3)
- 33307 National Income Analysis (3)
- 33351 History of Economic Thought (3)

33401 International Trade and Finance (3)

Economics (International Trade and Development)

15 credits

Required:

33206 Introduction to Microeconomics (3)

33207 Introduction to Macroeconomics (3)

Choice of three of the following:

33302 Comparative Economic Systems (3)

33401 International Trade and Finance (3)

33418 Economics of Development (3)

33X93 Certain selected topics courses such as Economic Development of Pacific Asia may be submitted.

Economics (Government and Public Policy)

15 credits

Required:

33206 Introduction to Microeconomics (3)

33207 Introduction to Macroeconomics (3)

Choice of three of the following:

33303 Money and Banking (3)

33304 Public Finance (3)

33305 State and Local Public Finance (3)

33307 National Income Analysis (3)

33312 Labor Economics (3)

33404 Economics of Regulation and Antitrust (3)

Economics (Monetary Economics)

15 credits

Required:

33206 Introduction to Microeconomics (3)

33207 Introduction to Macroeconomics (3)

And:

33303 Money and Banking (3)

33307 National Income Analysis (3)

33401 International Trade and Finance (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

33100 American Economic Development (3)

A comprehensive chronology of American economic development from the colonial period to the present. An examination of institutional and structural changes in the process of growth. It includes a knowledge of unity and diversity in American society and how these forces have affected different

groups. How economic development in America has evolved into a relationship with the rest of the world, which provides the foundation for understanding of contemporary globalization of capital and the emerging world economic organization.

33200 Current Economics Issues (3)

Introduction to economics through a study of selected contemporary issues in areas of growth, unemployment, inflation, income distribution and poverty, price systems and efficiency of resource allocation in the U.S. economy. Principles are introduced to help critically analyze real world problems and point out alternative policy solutions. Not for majors in economics or business.

33206 Microeconomics (3)

Introduction of economic analysis for management decisions and evaluation of merits of selected public policies. The study of choices made by households, firms, and government and how these choices affect the markets for goods and services. Prediction of how individual prices are set, what determines the price of limited supply of land, labor and other resources. Prerequisite: C- in 64050 or MPL 3.

33207 Macroeconomics (3)

Study of general economic principles and examination of the performance of the national economy. The goals and problems of high employment, price stability, growth, and the balance of payments are analyzed. Introduction to monetary and banking institutions. Application of monetary and fiscal policy analysis to current domestic and international macroeconomic issues. Prerequisite: 33206 with a grade of C- or better.

33302 Comparative Economic Systems (3)

A comparative study of the goals and methods of various economic systems, including competitive capitalism, centrally-planned state-managed economies, and workers' self-management. Topics include each system's ideological foundations, institutional structure, and economic decision-making mechanisms. Historical analysis of economic performance and efficiency concerns. Examination of developments and issues associated with the post-Soviet transitional economies within a global context. Prerequisite: One economics course with a grade of C- or better.

33303 Money and Banking (3)

A general study of the nature of money and interest rates. The organization and operations of financial markets and financial intermediaries in the U.S. The structure of the Federal Reserve System. Instruments and methods of monetary policy and its effect on both domestic and international economic policy goals. Provides a global perspective by introducing the European monetary union, and examining the recent financial crisis in Asia. Explorations of recent international institutional developments to address global financial crises. Prerequisite: 33207 with a grade of C- or better.

33304 Public Finance (3)

Public sector economics focuses largely on taxing and spending activities of the federal government and their influence on allocation of national resources and distribution of income. Policy perspective and an international comparison integrate the economic analysis with the real world, in a global context. The current budget of U.S. is examined in a historical context, focusing on how changes in its specific items reallocate resources. Prerequisite: 33207 with a grade of C- or better.

33305 State and Local Public Finance (3)

Examination of tax and spending activities of the state and municipal governments and their effect on allocation of resources on local communities and regions. Analysis of the effect of regional diversity with population and capital mobility that is unique and distinct from the study of public sector economics at the federal level. Current issues in intergovernmental tax sharing, education finance, local economic development and its connection with a growing global economy. Integrates the real world data in a computer simulation (Regional Economic Modeling “REM”) to predict the long-run impact of the local public budget on the economy of a region. Provides a global perspective by comparing the U.S. fiscal federalism with that of Canada, the European Union and Japan. Prerequisite: 33206 and C- in 33207.

33306 Theory of Price (3)

Microeconomic analysis of pricing, cost and production for optimization, forecasting and planning. Focuses on demand forecasting, cost and production and optimization methods in the context of the structure of the industry. Integrates data and computer application for active learning and a real world emphasis. Prerequisite: 33207 with a grade of C- or better.

33307 National Income Analysis (3)

Introduction and analysis of the national income and product accounts. Study of the determinants of the level of national income, employment, investments, economic growth, and the price level. Classical, Keynesian, and post-Keynesian explanations of unemployment and inflation. Theories of business cycles. Monetary and fiscal policy evaluations via computer simulations of the IS-LM and AD-AS models. Theoretical and applied analysis of the impact of international linkages. Prerequisite: 33207 with a grade of C- or better.

33312 Labor Economics and Labor Relations (3)

History of unionism and the practice of collective bargaining. Wage determination and wage structures; issues in bargaining impact of the government on labor-management relations. Prerequisite: 33207 with a grade of C- or better.

33351 History of Economic Thought (3)

Study of the origin and development of economic theories that have influenced western civilization. Major economists and schools of economic theory from Mercantilists and Keynes. Inquiries into the core methodological issues and debates among the contending theories. Prerequisite: 33207 with a grade of C- or better.

33401 International Trade and Finance (3)

Foreign exchange rates and international capital markets. The international balance of payments. Processes correcting surpluses and deficits. International monetary policy. Classical and modern explanations of trade and commercial policy. Economic integration. Prerequisite: 33207 with a grade of C- or better.

33404 Economics of Regulation & Antitrust (3)

An analysis of basic market characteristics that are inherent to the products, or the result of policy manipulation. The number of sellers and their size distribution, product differentiation, advertising and conditions of entry and their relation to profits. Government policies on price fixing, price discrimination, false advertising and other anti-competitive conducts. Landmark antitrust cases and current events integrates the real world with theory. Prerequisite: 33207 with a grade of C- or better.

33418 Economics of Development (3)

Analytical study of the problems of countries in early stages of economic development. Prerequisite: One economics course with a grade of C- or better.

33422 Urban Economic Problems (3)

The economic aspect of contemporary urban problems such as housing, education, welfare, transportation, finance, and industrial location. Prerequisite: 33207 with a grade of C- or better.

33425 Managerial Economics (3)

An integrative framework for analyzing business decision problems through application of the tools and techniques of economic analysis and decision sciences. Topics include demand forecasting, techniques of optimization relating to production and pricing and capital budgeting. Prerequisite: 33207, 20309 and 64245 with grades of C- or better.

33450 Senior Seminar in Economics (3)

This course is the capstone for economic majors that prepares them for either graduate school or a career track. Focuses on developing student's skills in research methods, use of the Internet and data analysis software such as Excel or SPSS, as well as professional writing and oral presentations. Systematic analysis of a selected topic on a current economic issue. Appropriate guided readings, analytical method and data inference. Fulfills the writing-intensive credit requirement. Prerequisite: 33306, 33307, with a C- or better, and senior status.

English

Phone: (845) 257-2720

Location: Jacobsen Faculty Tower Room 714

Web address: www.newpaltz.edu/english

The Department of English offers several programs designed to give students a knowledge of their linguistic and literary heritage and to develop their skills as writers and critics. Each of the tracks within the major has its own requirements. These programs prepare students for careers in teaching, publishing and business as well as for graduate work in English and a variety of other disciplines in which effective reading and writing skills are important. At least half the work toward the major must be completed at New Paltz. Students must earn a grade of "C-" or better in courses used for an English major or minor. Freshman English courses do not count toward the major, nor do courses taken under the pass/fail option. Students who hope to become teachers must earn at least a grade of "C" in both freshman English courses.

English Honors Program

English majors may apply for the English honors program if they have a grade point average of 3.50 in at least six English courses (exclusive of Freshman English). They must make application to the Chair of English during the second semester of their junior year. During their senior year, they will write an honors thesis that will be judged by a three-person committee. They may earn three credits for this work, which can count as an elective in their major program. Successful completion of the honors program entitles the student to graduate with honors in English -- acknowledged on their college transcript. For further details, ask at the English Department office for the English Honors Information Sheet.

Majors in English (Liberal Arts)

43 credits

Required Courses.....22 credits

- 41301 English Literature I (4)
- 41302 English Literature II (4)
- 41331 American Literature I (4)
- 41332 American Literature II (4)

One of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

One of the following:

- 41420 Literary Criticism (3)
- 41423 Major Trends in Twentieth-Century Criticism (3)

Elective Courses.....21 credits

Seven English courses. At least **six** of these courses must be in literature, and at least **four** of these literature courses must be at the 400 or 500 level. Most 400- and 500-level elective courses have 300-level survey course prerequisites (i.e., 41301, 41302, 41331, 41332) and therefore can be taken only after completion of the relevant 300-level course or courses (see individual course listings for details). 500-level courses are subject to the same prerequisites, and are open by permission of the instructor only. Students are strongly advised to maintain regular contact with their advisors as they plan their course selections.(See the Graduate Catalog for descriptions of 500-level courses.)

English (Graduate Preparatory)

55 credits

Required Courses.....22 credits

- 41301 English Literature I (4)
- 41302 English Literature II (4)
- 41331 American Literature I (4)
- 41332 American Literature II (4)

One of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

One of the following:

- 41420 Literary Criticism (3)
- 41423 Major Trends in Twentieth-Century Criticism (3)

Required..... 3 credits

- 41451 Senior Seminar (3)

Elective Courses.....18 credits

Six English courses, at least **five** of these courses must be in literature, at least **three** of these literature courses must be at the 400- or 500-level. Senior Seminar (41451) is usually taken in the last or penultimate semester. Most 400- and 500-level elective courses have 300-level survey course prerequisites (i.e., 41301, 41302, 41331, 41332) and therefore can be taken only after completion of the relevant 300-course or courses (see individual course listings for details). 500-level courses are subject to the same prerequisites, and are open by permission of the instructor only. Students are strongly advised to maintain regular contact with their advisors as they plan their course selections and consider their readiness to undertake graduate studies.

Foreign Language Requirement.....12 credits

Graduate Preparatory majors are required to complete at least 4 college-level courses in a foreign language, or to demonstrate an equivalent reading knowledge of the language through examination.

English (Creative Writing)

43 credits

Required Courses.....28 credits

- 41301 English Literature I (4)
- 41302 English Literature II (4)
- 41331 American Literature I (4)
- 41332 American Literature II (4)
- 41345 Creative Writing Workshop I (3)
- 41445 Creative Writing Workshop II (3)
- 41446 Creative Writing Workshop III (3)
- 41447 Creative Writing Workshop IV (3)

Electives.....15 credits

Five English courses. At least **four** of these courses must be in literature, at least **three** of these literature courses must be at the 400- or 500-level. Most 400- and 500-level elective courses have 300-level survey course prerequisites (i.e., 41301, 41302, 41331, 41332) and therefore can be taken only after completion of the relevant 300-course or courses (see individual course listings for details). 500-level courses are subject to the same prerequisites, and are open by permission of the instructor only. Students are strongly advised to maintain regular contact with their advisors as they plan their course selections.

English (Creative Writing for the Theatre)

51 credits

This option is open to students who have demonstrated a command of written English by the achievement of grades "B" or better in two freshman English courses or by publication of their work in other than a school or college journal and who have an interest in writing for the theatre.

Required Courses.....18 credits

- 41200 Analysis and Interpretation of Literature (3)
- 41301 English Literature I (3)
- 41302 English Literature II (3)
- 41331 American Literature I (3)
- 41332 American Literature II (3)

One of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

Required Elective Courses.....24 credits

Eight courses in English/Theatre Arts, of which at least 4 must be at the 400 level, are to be chosen from the list below with the approval of the department advisor:

- 41343 Literature and Western Culture (3)
- 41345 Creative Writing I (3)
- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

- 41420 Literary Criticism (3)
- 41423 Major Trends in 20th-Century Criticism (3)
- 41445 Creative Writing II (3)
- 41446 Creative Writing III (3)
- 91231 Acting I (3)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)
- 91325 Playmaking (3)
- 91420 American Musical Theatre (3)
- 91441 Directing I (3)

Elective Courses..... 9 credits

Three courses must be elected from the following:

- 41447 Creative Writing Workshop IV (3)*
- 41506 English Drama to the Jacobean Period (3)
- 41511 Restoration and 18th-Century Drama (3)
- 91424 Contemporary Theatre (3)
- 91442 Directing II (3)
- 91493 Advanced Playwriting (3)*

** Creative Writing Workshop IV or Advanced Playwriting requires an independent thesis, consisting of a one-act play that has a public performance or reading.*

Minor in English

19-21 credits

Required Courses.....10-11 credits

One of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

Any two of the following:

- 41200 Analysis and Interpretation of Literature (3)
- 41301 English Literature I (4)
- 41302 English Literature II (4)
- 41331 American Literature I (4)
- 41332 American Literature II (4)

Three Elective courses in English.....9-10 credits

With the approval of the department advisor, two at the 400 or 500 level. Not more than one of these may be a non-literature course.

Creative Writing for Non-English Majors

20-21 credits

Required Courses..... 9 credits

- 41345 Creative Writing Workshop I (3)
- 41445 Creative Writing Workshop II (3)
- 41446 Creative Writing Workshop III (3)

Elective Courses.....11-12 credits

Any three courses from the following:

- 41301 English Literature I (4)
41302 English Literature II (4)
41331 American Literature I (4)
41332 American Literature II (4)
41447 Creative Writing Workshop IV (3)

Creative Writing for L.A. English Majors

12 credits

Required Courses

(None of these courses may be used simultaneously to fulfill the requirements in the major.)

- 41345 Creative Writing Workshop I (3)
41445 Creative Writing Workshop II (3)
41446 Creative Writing Workshop III (3)
41447 Creative Writing Workshop IV (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Freshman English Courses

Normally, students must complete the College composition requirement during their freshman year. See "Academic Policies and Procedures" in the Student Advising Handbook.

41160 Freshman Composition 1 (3)

Training in critical reading, the process of composing academic forms of writing, and computer literacy. Movement from expressive to expository writing. Papers assigned to develop particular writing techniques. A first-semester English course.

41180 Freshman Composition 2 (3)

Training in critical reading and academic writing, particularly research, critical analysis, and argumentation. Oral presentation and library component. Papers assigned to develop academic writing skills, including the research essay. Prerequisite: 41160.

Other Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

41200 Analysis and Interpretation of Literature (3)

Introduction to close reading of literature, including prose and poetry. Prerequisite: 41160.

41205 General Honors English I (3)

A writing course based on thematically related readings in literature, the arts, and sciences designed for intellectually curious and industrious students who have demonstrated writing proficiency. May be substituted for Freshman Composition 1. Prerequisite: PC.

41206 General Honors English II (3)

A writing course based on thematically related readings in literature, the arts, and sciences. Designed for intellectually curious and industrious students who have demonstrated writing proficiency. May be substituted for Freshman Composition 2. Prerequisite: PC.

41207 Intermediate Composition (3)

Designed to prepare students for college writing assignments in various disciplines. Offers opportunities to enhance critical reading, writing, and thinking skills. Prerequisite: 41160 and 41180.

41210 Great Books (Western) (3)

Examination of Great Books which have shaped cultures and values, or represent ways of life in the Western tradition in classical, medieval, and modern times, such as Iliad, Aeneid, Bible, Divine Comedy, Prince, Don Quixote, Faust. Prerequisite: 41160.

41211 Great Books (Asian Classics) (3)

Examination of Great Books of India, China, and Japan which have shaped cultures and values or represent ways of life in Asian traditions in classical, medieval, and modern times, such as: Mahabharata, Upanishads, Tripitaka, Analects, Tao Teh Ching, Genji, and Monkey. Prerequisite: 41160.

41224 Expository Writing (3)

Intensive practice and guidance in the technique of expository prose, with emphasis on clarity and logic; reading of selected essays; class discussion of student writing. Prerequisite: 41160 and 41180.

41226 Practical Grammar (3)

Traditional grammar of good English: of contemporary, standard American writing for effective, graceful style; grammatical categories (e.g., verb, verb phrase) and grammatical functions (e.g., subject, complement) and kinds of sentences. Prerequisite: 41160.

41254 Modern Asian Literature (3)

Selected Asian great books that represent values and themes which have become popular in America or which bear upon problems of value in contemporary life. Prerequisite: 41160.

41255 Contemporary Issues and Literature (3)

Examination of such themes as love, war, parent-child relationships in works by contemporary American writers: e.g., Plath, Morrison, Gordon, Bellow, O'Brien, Lowell, Rich, Baldwin, Vonnegut, and Walker. Readings include novels, short stories, poetry, and drama. Prerequisite: 41160.

41301 English Literature I (4)

Representative works from Beowulf through Milton. Prerequisite: 41160 and 41180.

41302 English Literature II (4)

Representative works from the Restoration (1660) to the present. Prerequisite: 41160 and 41180.

41305 Science Fiction (3)

Study of the genre from Verne and Wells to the present. Selected works from each period of science fiction. The pioneers, Verne and Wells; the space operas of the 1920's and 1930's; the technological interests of the 1940's and 1950's; the sociological interests of the 1950's and 1960's; and the stylistic interests of the New Wave. Prerequisite: 41160 and 41180.

41306 Modern Fantasy (3)

Study of the genre from the Grimms to the present. Selected works from each period. Romantics and Victorians, pulp writers, and the renaissance after Tolkien. Prerequisite: 41160 and 41180.

41307 The Novel (3)

The novel as a genre through reading of both contemporary and classic novels selected by the instructor. Prerequisite: 41160 and 41180.

41308 The Short Story (3)

The short story as genre through reading of both contemporary and classic stories. Prerequisite: 41160 and 41180.

41309 American Humor (3)

American humorists from Mark Twain to Woody Allen, including such authors as S.J. Perelman, Ogden Nash, James Thurber, Dick Gregory, Elaine May, Dorothy Parker plus occasional comparisons with British humorists. Prerequisite: 41160 and 41180.

41310 Studies in Drama (3)

An introduction to drama as a literary genre through reading of both contemporary and classic plays. Prerequisite: 41160 and 41180.

41323 Women in Literature: A Contemporary View (3)

Women's experience viewed through selected literary works (novels, poems, plays, etc.) from past and present. Discussion of literature as art and as a window on the history of women. Prerequisite: 41160 and 41180.

41324 Women in Twentieth-Century Literature (3)

A literature and women's studies course. The most significant writing by and about women in the twentieth century. Fiction, biography and poetry. Prerequisite: 41160 and 41180.

41331 American Literature I (4)

Representative works from the Colonial period through the nineteenth century. Prerequisite: 41160 and 41180.

41332 American Literature II (4)

Representative works from 1900 to present. Prerequisite: 41160 and 41180.

41343 Literature and Western Culture (3)

Examines literary characters significant in Western life and thought, such as Prometheus, Oedipus, Faust, Don Quixote, and Ulysses. Authors such as Aeschylus, Sophocles, Marlowe, Shakespeare, Moliere, Goethe, Dostoyevsky, Lawrence, and Joyce. Prerequisite: 41160 and 41180.

41345 Creative Writing Workshop I (3)

Practice in creative writing (fiction and/or poetry). Free writing as well as set exercises in various forms. Prerequisite: 41160 and 41180.

41346 Myth, Symbol, and Fable in Literature (3)

The nature of myth, symbol, and fable in literature, both classical and modern, including an inquiry into the psychology of imagination expressed through these literary devices in selected works. General approach to literature. Prerequisite: 41160 and 41180.

41355 The Bible (3)

The Bible as a record of the spiritual and intellectual history of the Hebrew-Christian tradition, including myth, legend, law, history, political and moral thought, philosophy, and poetry. Prerequisite: 41160 and 41180.

41356 Greek and Roman Literature (3)

Greek and Roman authors who formed the basis of the Western literary tradition. Selections from works of such authors as: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Virgil, Horace, Catullus, Ovid. Prerequisite: 41160 and 41180.

41358 Shakespeare Our Contemporary (3)

A study of selected, representative plays by William Shakespeare. Some emphasis on Shakespeare's impact on stage, films, and popular literature. May not be counted toward an English major. Prerequisite: 41160.

41361 European Literature (3)

A survey of great books of European literature: such works as Dante's Divine Comedy, Boccaccio's Decameron, Machiavelli's The Prince, Voltaire's Candide, Goethe's Faust, and novels by Stendhal, Flaubert, Tolstoy, Dostoyevsky, and Mann. The works are read in English translations. Prerequisite: 41160 and 41180.

41366 Contemporary Ethnic Literature of the United States (3)

This course surveys literature (novels, short stories, poetry, criticism) by contemporary U.S. authors such as Leslie Marmon Silko, Gish Jen, Judith Ortiz Cofer, and Ishmael Reed, emphasizing their historical contexts, themes, and styles. Papers, midterm, and final exam required. Prerequisite: 41160 and 41180.

41385 Theories of Writing (3)

Introduction to the most important and influential modern theories of writing. Emphasis is on the teaching of writing at all educational levels. Prerequisite: 41160 and 41180.

41404 Medieval Literature (3)

A survey of the representative literary genres of Medieval Europe with special reference to England. Prerequisite: 41301.

41405 Elizabethan Literature (3)

Important writers of poetry, prose, and drama (excluding Shakespeare) in the sixteenth and very early seventeenth centuries: Kyd, Spenser, Sidney, and Marlowe. Prerequisite: 41301.

41406 Shakespeare I: Selected Works (3)

Selected major plays and non-dramatic poetry, such as Richard III, Twelfth Night, Julius Caesar, Othello, Macbeth, All's Well that Ends Well, The Tempest, and the sonnets. May be taken after 41407 or concurrently. Prerequisite: 41160 and 41180.

41407 Shakespeare II: Selected Works (3)

Narrative poems and selected major plays, such as Richard II, I Henry IV, As You Like It, Measure for Measure, Troilus and Cressida, Hamlet, and King Lear. May be taken before 41406 or concurrently. Prerequisite: 41160 and 41180.

41408 Seventeenth-Century Literature (3)

Leading English writers of poetry and prose in the seventeenth century, excluding Milton. Metaphysical and Cavalier poets and such prose authors as Browne, Burton, Bunyan, and Pepys. Prerequisite: 41301.

41413 Eighteenth-Century English Literature (3)

Readings from some of the following: Satirists, Swift, Gay, Pope; the first novelists, Defoe, Fielding, Sterne; biographers, Johnson, Boswell. Prerequisite: 41302.

41414 The Rise of the Novel (3)

Growth of the middle class and the emphasis on individual experience in the eighteenth century that led to the development of a new literary genre: the novel. Readings in Defoe, Richardson, Fielding, Smollett, and Sterne. Prerequisite: 41302.

41415 Nineteenth-Century English Novel (3)

Emphasis on changing fictional techniques, conflict between the individual and society, and the representation of women in novels. Austen, Emily Bronte, Thackeray, Hardy, Gissing, among others. Prerequisite: 41302.

41417 The Romantics in England (3)

Social and artistic upheaval in the age of the French Revolution as reflected in the English poets and prose writers of the time: Wordsworth, Coleridge, Byron, Shelley, Keats, and others. Prerequisite: 41302.

41418 Victorian Literature (3)

Study of the literature of the age and its involvement with religion, love, evolution, art, poverty, and politics. Arnold, Ruskin, Tennyson, Browning, Dickens, Hardy, Wilde, Yeats. Prerequisite: 41302.

41419 Twentieth-Century British Literature (3)

Major developments of the modernist, pre and post war, and contemporary periods, in the works of such authors as Yeats, Joyce, Woolf, Lawrence, Eliot, MacDiarmid, Auden, Spender, Greene, Durrell, Drabble, Thomas, Smith, Larkin, Hughes, and Hill. Prerequisite: 41302.

41420 Literary Criticism (3)

Analysis of major statements by great critics from the Classical, Renaissance and Modern periods. Discussion of significant ideas dealing with literary creation, genre, principles of criticism, and standards of taste. Critics include Aristotle, Horace, Dryden, Johnson, Wordsworth, Coleridge, Arnold, etc. Prerequisite: Two literature courses.

41423 Major Trends in Twentieth-Century Criticism (3)

Literary theory in the twentieth century, such as the New Critical, Neo-Aristotelian, Archetypal, Marxist, Psychoanalytic, Deconstructive, Feminist, Reader-response, and New Historicist. Prerequisite: Two literature courses.

41425 The Epic Tradition (3)

The epic and saga as they have evolved from myth and legend. Archetypal culture heroes; heroic action; cosmology. Prerequisite: 41160 and 41180.

41426 The Twentieth-Century British Novel (3)

British novelists of the twentieth century, such as, Conrad, Ford, Maugham, Forster, Woolf, Joyce, and Lawrence. Prerequisite: 41302.

41427 Contemporary Literature from 1945 (3)

Readings in the major works of recent British and American poets and novelists. Prerequisite: 41302 or 41332.

41436 Nineteenth-Century American Literature (3)

Important writers of America's formative years, the nineteenth century, from Irving and Poe to Twain, James and Dreiser, as well as significant minor authors. Prerequisite: 41331.

41439 Twentieth-Century American Novel (3)

Representative works by major American novelists of the twentieth century. Prerequisite: 41332.

41443 Fiction into Film (3)

The complex interrelationships between novels and short stories and the movies derived from them. Consideration of the uniqueness of each art form with study of the techniques they share: Plot, structure, character development, symbolism, etc. Prerequisite: 41160 and 41180.

41445 Creative Writing Workshop II (3)

Students who show evidence of more than average ability in writing have an opportunity to work on individual assignments in the essay, short fiction, and verse. Two hours weekly and regular individual conferences. Prerequisite: 41345.

41446 Creative Writing Workshop III (3)

To help the motivated and talented writer continue with creative endeavors. The student concentrates on a specific genre, such as the short story, the poem or the novel. Prerequisite: 41445.

41447 Creative Writing Workshop IV (3)

To help the motivated and talented writer continue with creative endeavors. This course is a capstone to the creative writing sequence; majors are required to give a public reading of a selection of their work -- short story, poetry, one-act play, or section of a novel. Prerequisite: 41446.

41448 Writing the Novel I (3)

Writing the Novel I and II is for highly motivated students of Creative Writing who would like to write a book-length work of fiction; three completed, consecutive chapters are required for each semester. Prerequisite: 41447.

41449 Writing the Novel II (3)

Writing the Novel I and II is for highly motivated students of Creative Writing who would like to write a book-length work of fiction; three completed, consecutive chapters are required for each semester. Prerequisite: 41448.

41450 Seminar in Poetry (3)

Analysis of individual poems and discussions of poetic genres. Prerequisite: Junior or senior and two of the following: 41301, 41302, 41331, 41332.

41451 Senior Seminar (3)

Advanced, in-depth seminar on varied topics. Students write a substantial research paper or critical essay, use secondary sources, and make class presentations. Required for Graduate Preparatory English majors; to be taken in the penultimate or final semester. Prerequisite: 41301, 40302, 41331, 41332; two 400-level courses.

41470 Major Authors (3)

Intensive study of a major British or American writer, or pair of writers. Prerequisite: 41160 and 41180.

Foreign Languages

Phone: (845) 257-3480

Location: Jacobsen Faculty Tower Room 414

Web address: www.newpaltz.edu/foreign_lang

The Department of Foreign Languages offers undergraduate and graduate instruction. Liberal arts majors are available in French, German, and Spanish. A major in foreign languages with concentration in French, German, or Spanish is available for students in elementary education (Childhood 1-6 and Early Childhood), and majors in French and Spanish are available in secondary education (7-12). Undergraduate majors in liberal arts and secondary education require at least 33 credits above the intermediate level. Minors are offered in French, German, Italian, Russian and Spanish. In addition to the above, instruction is regularly offered in Chinese, Hebrew, Japanese, Kiswahili, Latin and Spoken Mandarin. A number of courses in the literature and culture of France, Germany, Italy, Japan, Latin America, Russia, and Spain are offered in English.

All language courses must be taken proceeding from lower to higher level.

Immersion Programs

The Language Immersion Institute offers a large number of popular two-week Language Immersion Programs each summer, as well as a series of weekend sessions during the academic year and in the summer. Students may earn one credit during each weekend session or three credits for each summer two-week session. Both weekend and summer Immersion Programs offer intensive language instruction at various levels of difficulty. The languages offered include Arabic, Chinese, Czech, Dutch, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Swedish, Ukrainian and Yiddish. Consult the Language Immersion Institute office for a detailed schedule of Immersion Programs.

Honor Societies

A chapter of Sigma Delta Pi, the national Spanish honor society, was established in 1987. Each year, outstanding eligible undergraduates of New Paltz are invited to join the society.

Liberal Arts Designation

All courses offered by the Department of Foreign Languages count toward the liberal arts requirement.

Language Laboratory (0)

The *language laboratory* provides equipment, analog/digital materials, and an environment outside the classroom dedicated to enhancing the study of foreign languages. While constantly being upgraded, the

physical lab currently houses ten PCs (networked with the Internet and a printer), software supporting all languages taught at SUNY New Paltz, fifteen audio/video stations for self-study, a classroom with thirty-five audio/video stations as well as VCRs, DVD and CD players. Most elementary and intermediate language classes are now also supported with our virtual lab — required oral/aural homework assignments are obtainable in a streaming media format through the Internet. Students may also have language cassettes made in the lab with high-speed duplicators. Use of the lab increases the efficiency and quality of language learning by providing additional exposure to the spoken language. Any registered student may use this facility.

Latin American Studies

The Department of Foreign Languages offers a major (36 credits) and a minor in Latin American Studies. See the Foreign Language Department for specific information.

Chinese

See "Asian Studies" for information on minor and contract majors.

Courses

23101, 23102 Elementary Chinese I, II (4 each)

Introduction to reading, writing, and speaking Mandarin Chinese. This class is not open to native speakers of Chinese. Prerequisite for 23102: 23101 or placement.

23201, 23202 Intermediate Chinese I, II (4 each)

Training in reading, writing and speaking Mandarin Chinese. Prerequisite for 23201: 23102 or placement. For 23202: 23201 or placement. Prerequisite: 23102 or placement.

23310 Spoken Mandarin (3)

Designed to teach Mandarin, the official language of both The People's Republic of China and The Republic of China (Taiwan), to students who have a proficiency in reading and writing Chinese, and who speak a Chinese language other than Mandarin. The course is also open to students who have completed the equivalent of Elementary and Intermediate Chinese (23201 and 23202). Prerequisite: PI. 23201 and 23202 or proficiency in reading and writing Chinese and an ability to speak a Chinese language other than Mandarin.

French

A major program is offered in French language and literature for students in liberal arts or elementary and secondary education programs. Students are admitted to the major upon completion of intermediate French or placement. A minor in French is also available.

Paris Summer Program, France

In cooperation with the Department of Foreign Languages, the Office of International Education offers a five-week summer program in Paris for undergraduate and graduate students and for teachers of French. The program centers upon active instruction in language, literature and culture. Formal instruction is augmented by field trips, excursions, movies, and visits to museums in order to provide a first-hand knowledge of French civilization. There is also free time for travel.

Overseas Academic Year in Besançon, France

An academic year program is offered at the University of Besançon (Center for Applied Linguistics and the Faculty of Letters) to qualified undergraduate and graduate students. Students select from a wide variety of courses in French language, literature, culture, civilization, and social sciences.

Major in French

36-48 credits

Basic Language Courses.....12 credits

- 46101 Elementary French I (3)
- 46102 Elementary French II (3)
- 46201 Intermediate French I (3)
- 46202 Intermediate French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required Courses.....24 credits

All of the following:

- 46301 French Composition and Conversation I (3)
- 46302 French Composition and Conversation II (3)
- 46313 French Literature I (3)
- 46314 French Literature II (3)
- 46416 French Literature III (3)
- 46319 French Civilization (3)
- 46404 Daily Life in France (3)

One of the following:

- 46401 Advanced French Composition/Conversation I (3)
- 46402 Advanced French Composition/Conversation II (3)

Electives.....12 credits

Each major candidate is required to complete, by advisement, 4 courses in French at the 400 level or equivalent.

Minor in French

Each minor candidate is expected to complete, by advisement, 15 credits beyond intermediate French. At least 9 credits must be at the 300 level or above.

Courses

46101, 46102 Elementary French I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory required. Students with knowledge of French may be allowed to begin with 46102.

46201, 46202 Intermediate French I, II (3 each)

Continuation of 46102 with further training in the language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 46102 or placement.

46301 French Composition and Conversation I (3)

Intensive practice in free composition and conversation, emphasizing functional grammar and vocabulary building. Conducted in French. 46301 and 46302 may be taken separately and in either sequence. Prerequisite: 46202 or PC.

46302 French Composition and Conversation II (3)

Intensive practice in free composition and conversation, emphasizing functional grammar and vocabulary building. Conducted in French. 46301 and 46302 may be taken separately and in either sequence. Prerequisite: 46202 or PC.

46313 French Literature I (3)

Survey of French literature from its origins through the sixteenth century. Prerequisite: One 300-level French course or PC.

46314 French Literature II (3)

Survey of French literature from the seventeenth century through the eighteenth century. Prerequisite: One 300-level French course or PC.

46319 French Civilization (3)

Analysis of the most significant aspects and trends of French civilization. Conducted in French. Prerequisite: One 300-level French course or PI.

46401 Advanced French Composition and Conversation I (3)

Intensive practice in spoken and written French. Study of the variants of style and selected problems in vocabulary and syntax. Conducted in French. 46401 and 46402 may be taken separately and in either sequence. Prerequisite: 46301 or 46302.

46402 Advanced French Composition and Conversation II (3)

Intensive practice in written and spoken French. Study of variants of style and selected problems in vocabulary and syntax. Conducted in French. 46401 and 46402 may be taken separately and in either sequence. Prerequisite: 46301 or 46302.

46404 Daily Life in France (3)

Cross-cultural analysis of selected elements of daily life in modern French society. Conducted in French. Prerequisite: One 300-level French course or PI.

46413 French Classical Drama (3)

Critical study of the theatre of Corneille, Racine and Moliere. Conducted in French. Prerequisite: 46313 or PC.

46416 French Literature III (3)

Works of the foremost French novelists, playwrights, and poets from Hugo to Sartre, against the background of social changes, evolution of literary tendencies, and artistic and historical developments. Conducted in French. Prerequisite: 46314 or PC.

46417 Twentieth-Century French Novel (3)

The 20th-century novel in France, from Gide to Camus, Sartre and post-war novelists. Conducted in French. Prerequisite: One French literature course or PI.

German

A major in German language and literature is available for students in liberal arts or elementary and secondary education.

A knowledge of German is an invaluable tool for anyone seriously studying the history of our civilization with its social triumphs, its holocausts, and its enduring achievements in music, philosophy, literature, and the fine arts. Numerous other fields, from modern physics to psychology, were pioneered by German minds and continue to receive valuable contributions from Germany, Austria, and Switzerland. Germany plays a leading role in the European Union. Thus, German will continue to be an important language for industry and commerce in the foreseeable future.

Major in German

33-45 credits

Basic Language Courses.....12 credits

- 52101 Elementary German I (3)
- 52102 Elementary German II (3)
- 52201 Intermediate German I (3)
- 52202 Intermediate German II (3)

Students with prior training or experience in German may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Languages Department.

Required Courses.....18 credits

- 52211 German Composition and Conversation I (3)
- 58311 Modern Germany [History Department] (3)
- 52312 German Composition and Conversation II (3)
- 52316 Germany Today (3)
- 52406 Modern German Fiction (3)
- 52409 Nineteenth-Century German Plays (3)

Electives.....15 credits

Each major candidate is required to complete, by advisement, five courses (15 credits) at the 300 or 400 level in German or in cognate areas with a substantial German component. Such cognate areas include Art History, History, Music, Philosophy, Political Science and Sociology.

Minor in German

Each candidate for a minor is expected to complete, by advisement, 15 credits in German courses at the 300 or 400 level.

Courses

52101, 52102 Elementary German I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking and reading. Language laboratory required. Students with knowledge of German will be placed according to their proficiency.

52201, 52202 Intermediate German I, II (3 each)

Continuation of 52102 with further training in the language skills, review of grammatical material, and

additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 52102 or placement.

52307 Introduction to German Literature I (3)

Significant selections (poems, plays, stories, and novels) from about 1830 to 1980 are analyzed. Conducted in German. Prerequisite: One course above 52201.

52311 German Composition and Conversation I (3)

Intensive practice in conversation and free composition with emphasis on functional grammar and vocabulary building. Prerequisite: 52201 or placement.

52312 German Composition and Conversation II (3)

Continuation of 52211. Prerequisite: 52311 or placement.

52313 Readings in Contemporary German (3)

Selected readings in natural and social sciences, philosophy and the arts. Grammatical structures will be reviewed with special attention to those most characteristic of expository prose. Prerequisite: 52201.

52316 Germany Today (3)

A close look at contemporary social, political, economic, environmental and cultural issues in Germany following the unforeseen opening of the Berlin Wall and subsequent reunification in 1990.

52317 Classic German Literature in English (3)

Extra-marital sex, suicide and mental instability appear with startling frequency as prime topics in classic German literature of the later 18th century. Writers include the Storm and Stress playwrights in addition to Goethe, Schiller, Kleist, Buchner, Schnitzler and Wedekind. Readings and classes conducted in English. Prerequisite: Two Freshman English courses.

52318 Twentieth-Century German Literature in English (3)

Under the long shadows cast by the horrors of two World Wars, the Holocaust and Chernobyl, German literature focuses on the individual's struggle for liberation and self-fulfillment. Readings include fiction and drama of Kafka, Mann, Hesse, Brecht, Frisch, Weiss and Wolf. All readings and classes are conducted in English.

52319 Women in German Literature and Film (3)

Exploration of how women have been depicted by both sexes in German literature and films, ranging from the mundane or humorous to the neurotically suicidal or the deliberately shocking. Works also include those from East Germany, Switzerland and Austria. All readings and classes are in English.

52320 The Jews of Germany (3)

An examination of Jewish life, culture and civilization in Germany, from the earliest arrivals with the Roman legions along the Rhine nearly two thousand years ago, through the Middle Ages, the age of Enlightenment and the struggle for emancipation. All readings and classes are in English.

52406 Modern German Fiction (3)

Significant twentieth-century German short stories and novels. Emphasis on Kafka, Mann, and Hesse. Conducted in German. Prerequisite: 52307.

52409 Nineteenth-Century German Plays (3)

Significant German plays by Kleist, Buechner, Grillparzer, Hebbel, and others. Conducted in German. Prerequisite: 52307.

Hebrew

Instruction is offered in Hebrew, but there is no major program. Students may wish to study Hebrew for personal interest or in relation to a degree program in a field such as history, political science, or Middle Eastern studies. Study at a leading Israeli university for a semester or a year can be arranged.

Courses

56101 Elementary Hebrew I (3)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory optional. Students with previous knowledge of Hebrew may be allowed to begin with 56102.

56102 Elementary Hebrew II (3)

Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory optional. Prerequisite: 56101 or placement.

56201 Intermediate Hebrew (3)

Continuation of 56102 with further training in the language skills to provide a firm basis for an active command of Hebrew. Language laboratory optional. Prerequisite: 56102 or placement.

56205 The Jewish Experience (3)

An introduction to Jewish civilization, and the social, ethnic and spiritual dimensions of the Jewish people. Topics include: Jewish calendar and festival cycle; customs of the Jewish life-cycle; theology; sacred literature; anti-Semitism.

56401 Jewish Philosophy (3)

An in-depth reading of four classic works of Jewish philosophy: the biblical Job and Ecclesiastes, questioning divine justice and human purpose; Maimodies on cosmology; religious versus rational sources of truth; and Buber's I and Thou. Prerequisite: Junior or senior status.

Italian

Students may take courses in Italian for personal interest or in relation to a degree program in such fields as art, business, literature, history, music and philosophy. There is presently no major program in Italian.

Italian Studies

The Italian Studies program offers a 21-credit interdisciplinary minor for students seeking a comprehensive understanding of Italy and its many contributions to western civilization. To students of Italian descent it serves also to provide a better appreciation of themselves and of their heritage.

However, a contract major in Italian can be individually designed in consultation with the Coordinator of the Italian Studies program. The major would consist of 30 credits.

Minor in Italian Studies

21-33 credits

Required Courses..... 9-21 credits

Basic language courses (not counting toward minor):

- 59101 Elementary Italian I (3)
- 59102 Elementary Italian II (3)
- 59201 Intermediate Italian I (3)
- 59202 Intermediate Italian II (3)

NOTE: Students with prior training or experience in Italian may obtain waivers for one or more of the basic language courses listed above, after consultation with the Department of Foreign Languages.

Three courses from the following:

- 59261 Italian Society in Film (in English) (4)
- 59301 Italian Composition and Conversation (3)
- 59331 Italian Literature in English I (3)
- 59332 Italian Literature in English II (3)
- 59375 Italian Cinema (4)
- 59441 Modern Italian Literature (in English) (3)
- 59495 Independent Study (2-4)

Electives.....12 credits

Four courses taken under advisement from the Departments of Art History, English, History, Music and Philosophy. Other departments from time to time teach courses that relate to Italian Studies. See the program coordinator.

Programs in Italy

A five-week summer program in Italian is offered in Urbino, in cooperation with the Office of International Education. The program includes courses in Italian language, literature and culture.

An academic-year program is available at the University of Urbino to qualified undergraduate students having at least two years of college-level Italian.

Courses

59101, 59102 Elementary Italian I, II (3 each)

Beginning study of the language based on the principles of audio lingual learning; presents basic structure and vocabulary emphasizing the language as heard and spoken as the first step towards the student's progressing to the skills of reading and writing. Students with knowledge of Italian may be allowed to begin with 59102. Prerequisite for 59102: 59101 or placement.

59201, 59202 Intermediate Italian I, II (3 each)

Understanding and speaking Italian through conversational practice, grammar review, varied readings, and written exercises. Prerequisite: 59102 or placement.

59261 Italian Society in Film (4)

Understanding contemporary Italy through its films. Conducted in English.

59301 Italian Composition and Conversation (3)

Composition and conversation based on themes suggested by readings and by topics of current events. Prerequisite: 59202 or placement.

59331 Italian Literature in English I (3)

Study of the most important writers of the Middle Ages and Renaissance. Emphasis on works of Dante, Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, and Tasso. Prerequisite: Two freshman English courses.

59332 Italian Literature in English II (3)

Study of the most important representative writers from the seventeenth to the twentieth century. Emphasis on works of Goldoni, Foscolo, Leopardi, Manzoni, Verga, Pirandello, Vittorini, Pavese, Silone, and Moravia. Prerequisite: Two freshman English courses.

59375 Italian Cinema (4)

Evolution of Italian cinema from its origins to the present. Lecture, class discussion and viewing of representative films. In English. All films are in Italian with English subtitles. Prerequisite: Two freshman English courses.

59441 Modern Italian Literature (3)

Readings and discussions of works of major 20th-century Italian authors in the light of political, intellectual and social conditions of modern Italy. Prerequisite: Two freshman English courses.

Japanese

See "Asian Studies" for information on minor and contract major.

Courses

57101, 57102 Elementary Japanese I, II (4 each)

Introductory program stressing communication and understanding of the modern Japanese language. The written syllabaries will be taught in 57101; Chinese characters will be introduced in 57102. Prerequisite for 57102 is 57101 or placement.

57201, 57202 Intermediate Japanese I, II (4 each)

Training in speaking, listening, reading and writing the modern Japanese language. This course will emphasize grammar and the acquisition of Chinese characters (kanji). Prerequisite for 57201 is 57102 or placement; for 57202: 57201 or placement.

57300 Japanese Aesthetics and Culture (3)

An exploration of traditional Japanese views and attitudes toward beauty as expressed in literature and art.

57310 Japanese Poetry (3)

Using English translations, the study of early Court poetry, medieval Imperial anthologies, poetic diaries, Noh theatre, Bunraku puppet theatre, and 20th-century poetry. Prerequisite: Two freshman English

courses.

57311 Japanese Fiction (3)

Analysis of the characteristics of Japanese narrative through a study of major classical and modern works in English translation.

Prerequisite: Two freshman English courses.

57320 Asian Americans (3)

An exploration of the lives of the more than eight million Americans who trace their origins to China, Japan, Korea, the Philippines, Southeast Asia, and the South Asian sub-continent.

KiSwahili

Instruction is offered in KiSwahili, but there is no major program in KiSwahili. Students may take these courses for personal interest or to support studies in a major program in another area. KiSwahili is the most widely spoken language in Africa and it is recommended for majors and minors in Black Studies, majors in Foreign Languages, Anthropology and Linguistics, and persons traveling and doing business in Africa.

Courses

55101 Elementary KiSwahili I (3)

An introduction to the KiSwahili language spoken widely in East Africa. The primary objectives of the course are to assist students in listening to, understanding, speaking, reading and writing in KiSwahili. KiSwahili I focuses on the phonetic structure, pronunciation, vocabulary, the noun classes, imperatives and tenses.

55102 Elementary KiSwahili II (3)

The second half of an introduction to the KiSwahili language spoken widely in East Africa. The primary objectives of the course are to assist student in gaining further skill in speaking, reading and writing KiSwahili; and to encourage enough fluency in the language and enough understanding of KiSwahili speaking cultures for students to be able to function in African countries where the language is spoken. KiSwahili II focuses on expanding use of the vocabulary, the eight noun classes, imperatives, tenses and conjugation of verbs. Prerequisite: 55101 or placement.

55201 Intermediate Kiswahili (3)

Continuation of 55102, Elementary Kiswahili 2, with further training in oral and written communication skills. Prerequisite: 55102 or placement.

Latin

Instruction is offered in Latin, but there is no major program in Latin. Students may take these courses for personal interest or to support studies in a major program in another area.

Courses

60101, 60102 Elementary Latin I, II (3 each)

Fundamental principles of Latin syntax with emphasis on learning to read Latin. Students with knowledge of Latin may be allowed to begin with 60102. Prerequisite for 60102: 60101 or placement.

60201 Intermediate Latin (3)

Review of principles of Latin syntax. Intensive readings in Cicero and other prose writers. Prerequisite: 60102 or placement.

Russian

Instruction is offered in the Russian language and interdisciplinary minors in Russian studies and in Russian language and literature are available. Students may study Russian for personal interest or in relation to a major in a field such as economics, history, political science or international relations. There is no major program in Russian.

The minors in Russian studies and Russian language and literature are designed to provide the student with an understanding of Russian and Soviet culture and civilization. A basic knowledge of Russian language, literature, and history is provided by the required courses. Electives may be taken under advisement in economics, political science, and geography, as well as history and literature. These programs will prepare interested students for careers related to some aspect of Russian-American political, cultural, and economic relations.

Minors in Russian Studies

18 credits

Required Courses..... 6 credits

58332 History of Russia 1796-1917 (3)

58333 Soviet Union (3)

Four of the Following.....12 credits

58333 Soviet Union (3)

84366 Russian Civilization (3)

84373 Russian Culture (3)

84371 Russian Literature in English (3)

84374 Soviet Literature in English (3)

77503 Soviet Government (3)

OR

Selected topics in Russian by advisement.

Courses

84101, 84102 Elementary Russian I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking and reading. Language laboratory required. Students with knowledge of Russian may be allowed to begin with 84102. Prerequisite for 84102: 84101 or placement.

84201, 84202 Intermediate Russian I, II (3 each)

Continuation of 84102 with further training in the language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 84102 or placement.

84301 Russian Composition and Conversation I (3)

Intensive practice in conversation and free composition. Functional grammar and vocabulary building. Prerequisite: 84202 or placement.

84302 Russian Composition and Conversation II (3)

Continuation of 84301. Prerequisite: 84301.

84361 Modern Russian Grammar (3)

Survey of morphology and syntax of modern standard Russian. Prerequisite: 84202 or placement.

84366 Russian Civilization (3)

Significant ideas and institutions in the development of Russian civilization from earliest time to the present; geography, peoples, culture, social, political, and religious institutions, the impact of Westernization and the Revolution of 1917.

84368 Russian Literature II (3)

Reading and discussion of representative works of the twentieth century. Conducted in Russian. Prerequisite: 84302.

84371 Russian Literature in English (3)

Selected masterpieces in English translation of Russian literature to the Revolution of 1917. Authors considered include: Pushkin, Lermontov, Gogol, Turgenev, Tolstoy, Chekhov, and Dostoevsky.

84373 Russian Culture (3)

Contemporary Russian life: study of the values, attitudes and habits of the Russian people.

84374 Soviet Literature in English (3)

Reading and discussion of representative works of the twentieth century in English translation. Authors include: Gorky, Blok, Mayakovsky, Sholokhov, Yevtushenko, Voznesensky, and Solzhenitsyn.

Spanish

An academic major is offered in Spanish language and literature for students in liberal arts or elementary and secondary education programs. A student is admitted to the major upon completion of intermediate Spanish or placement.

Summer Program in Oviedo, Spain

In cooperation with the Department of Foreign Languages and the University of Oviedo, the Office of International Education offers an intensive program at the University of Oviedo for undergraduate and graduate students and teachers of Spanish (elementary and secondary). The program includes active instruction in language, phonetics, history, culture and literature. Formal instruction will be augmented by seminars, field trips, movies, plays, and public lectures. Students will have the final ten days free to travel at their own expense.

Academic Year Program in Seville, Spain

In cooperation with the Department of Foreign Languages, the Office of International Education offers

an academic-year program at the University of Seville to qualified undergraduate and graduate students. Spanish majors will be able to select from a wide variety of courses in Spanish language, literature, culture, civilization and social sciences. Courses in other languages and disciplines may also be taken. Non-majors may attend if they are fluent in Spanish. Prerequisite: Spanish 89361.

Major in Spanish

33-45 credits

Required Courses.....24-36 credits

Basic Language courses:

- 89101 Elementary Spanish I (3)
- 89102 Elementary Spanish II (3)
- 89201 Intermediate Spanish I (3)
- 89202 Intermediate Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers may substitute courses for native speakers for the above.

- 89301 Spanish Composition/Conversation I (3)
- 89361 Spanish Composition/Conversation II (3)
- 89365 Culture of Spain I (3)
- 89372 Culture of Latin America I (3)

One of the following:

- 89367 Spanish Literature I (3)
- 89368 Spanish Literature II (3)

One of the following:

- 89369 Spanish-American Literature I (3)
- 89370 Spanish-American Literature II (3)

One of the following:

- 89363 Spanish Phonetics and Oral Practice (3)
- 89461 Advanced Spanish Composition (3)

One of the following:

- 89468 Literature of the Golden Age-Prose (3)
- 89469 Literature of the Golden Age-Drama and Poetry (3)
- 89470 Generation of 1898 (3)
- 89471 Spanish-American Novel (3)

Electives..... 9 credits

Each major is required to complete by advisement 3 courses in Spanish at the 400 or 500 level.

Minor in Spanish

18 credits

Each minor candidate is expected to complete, by advisement, 18 credits beyond the intermediate level in at least two of three areas of language, literature and culture.

Courses

89101, 89102 Elementary Spanish I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory required. Students with knowledge of Spanish may be allowed to begin

with 89102. Prerequisite for 89102: 89101 or placement.

89111, 89112 Elementary Spanish for Native Speakers I, II (3 each)

A basic course in Spanish for U.S. born or raised Hispanics who, whether they speak some Spanish or not, have never been introduced to a formal study of the language. Introduce grammatical concepts and terminology that emphasize reading and writing skills, and focus on areas of interference between English and Spanish. Prerequisite: 89111: Placement. Prerequisite for 89112: 89111 or placement.

89201, 89202 Intermediate Spanish I, II (3 each)

Continuation of 89102 with further training in language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 89102 or placement.

89213, 89214 Intermediate Spanish for Native Speakers I, II (3 each)

An intensive review of Spanish orthography, grammar and syntax with emphasis on the standard variety of Spanish, contrasting and differentiating it from English grammar and other Spanish regional varieties. Special attention to the development of reading and writing skills, vocabulary enhancement and oral expository skills. Prerequisite: 89213: 89112 or placement. Prerequisite for 89214: 89213 or placement.

89301 Spanish Composition and Conversation I (3)

Composition and conversation based on everyday topics, or on Hispanic themes suggested by readings. Variants of idiom and style. Prerequisite: 89201 or placement.

89361 Spanish Composition and Conversation II (3)

This course is a continuation of 89301. Prerequisite: 89301.

89363 Spanish Phonetics and Oral Practice (3)

Study and practice of Spanish phonetics for non-native speakers who have acquired basic skills in the language. Goal is improvement of sound patterns, pronunciation and articulation through discrimination, practice and internalization exercises. Prerequisite: 89202 or placement.

89365 The Culture of Spain I (3)

Cultural and historical evolution of Spain from the prehistoric to the 15th century. Prerequisite: 89361.

89367 Spanish Literature I (3)

Outstanding works from the Middle Ages through the seventeenth century. Conducted in Spanish. Prerequisite: One course above 89202.

89368 Spanish Literature II (3)

The most important aspects of Spanish literature from the eighteenth century to the present day. Conducted in Spanish. Prerequisite: One course above 89202.

89369 Spanish-American Literature I (3)

Survey of Spanish-American literature from the colonial period until 1888. Conducted in Spanish. Prerequisite: One course above 89361.

89370 Spanish-American Literature II (3)

Survey of Spanish-American literature from Modernism to the present. Conducted in Spanish. Prerequisite: One course above 89361.

89372 Culture of Latin America I (3)

Distinctive cultural and historical traits of Latin America from pre-Columbian times to the end of the 19th century. Conducted in Spanish. Prerequisite: 89361.

89461 Advanced Spanish Composition (3)

Intensive practice in written Spanish. Variants of style and selected problems in vocabulary and syntax. Conducted in Spanish. Prerequisite: 89361.

89466 Intensive Readings in Modern Spanish Literature (3)

Selected works of nineteenth and twentieth century. Spanish authors analyzed. Individual assignments and class reports in Spanish. Prerequisite: 89368.

89468 Intensive Readings in the Literature of the Golden Age-Prose (3)

Selected masterpieces of the Siglo de Oro analyzed. Individual assignments and class reports in Spanish. Emphasis on prose writings. Prerequisite: 89367.

89469 Intensive Readings in the Literature of the Golden Age Drama and Poetry (3)

Continuation of 89468. Theatre and poetry. Conducted in Spanish. Prerequisite: 89367.

89470 The Generation of 1898 (3)

Writings of the Generation of 1898 in relation to socio-political and other aspects of the contemporary Spanish scene. Conducted in Spanish. Prerequisite: 89368.

89471 The Spanish-American Novel (3)

Analysis of Spanish-American novels as interpretations of Spanish-American life. Conducted in Spanish. Prerequisite: 89369.

89472 Twentieth-Century Mexican Literature (3)

Analysis of literary works by major writers in various genres to explore how Mexican myth and history continue to influence the character and culture of contemporary Mexican society. Conducted in Spanish. Prerequisite: 89373, 89369, 89370, or PI.

89473 Modern Latin American Drama (3)

Analysis of literary and theatrical elements of drama: examine plot, character, themes, language; then, stage resources: setting, mood, gestures to understand unique qualities of dramatic genre. Conducted in Spanish. Prerequisite: 89366 or 89369 or 89370.

Geography

Phone: (845) 257-2995

Location: Hamner House

Web address: www.newpaltz.edu/geography

The Department of Geography offers a comprehensive major within the liberal arts curriculum designed to prepare students for graduate study in geography or for employment in fields actively seeking geographers. The department also offers an emphasis in planning for students who wish to undertake

graduate study in planning or to obtain employment in that field. A Geographic Information System (GIS) sequence is offered in addition to courses in Cartography and Remote Sensing.

For those majoring in other fields, a minor in Geography is available.

In addition, the department cooperates in various programs, such as Business Administration with an emphasis in Planning and Regional Affairs, Environmental Science, Asian Studies, Latin American Studies and Urban Studies. Students in the elementary education curriculum (Early Childhood B-2 and Childhood 1-6) may major in geography; students in secondary education (social studies) may select geography as an option. The department also offers courses designed to permit graduate students majoring in secondary social studies to concentrate in geography as their liberal arts field.

To complement the academic program, the department offers an internship at several public and private agencies in the region, such as the New York State Department of Environmental Conservation and Mid-Hudson Pattern. One semester long, the internship offers students the opportunity to gain practical, on-site experience at a planning, development, or environmental protection agency.

Majors in Geography

41-44 credits

Required Courses.....13 credits

- 48252 Economic Geography (3)
- 48273 Basic Physical Geography (3)
- 48274 Environment and Culture (3)
- 48381 Basic Cartography (4)

Required Cognate Courses..... 7-8 credits

- 64241 Introductory Statistics (3)
- OR
- 80275 Psychological Statistics (3)
- AND

Either of the Following:

- 15340 Ecology (4)
- OR
- 50220 Physical Geology (4)

Electives.....21-23 credits

Each major candidate is required to complete 7 elective courses in geography, at least 4 of which must be systematic courses.

Systematic courses:

- 48250 Maps & Graphics: Measures & Symbols (3)
- 48382 Remote Sensing (4)
- 48383 Introduction to Geographic Information Systems (3)
- 48401 Geography of Cities and Suburbs (3)
- 48405 Political Geography (3)
- 48406 Natural Resources: Utilization and Management (3)
- 48410 Regional Planning and Development (3)
- 48412 Location Analysis in Business and Industry (3)

- 48480 Internship in Geography (9)*
- 48481 Internship seminar (3)*
- 48483 GIS Applications (3)
- 48526 Urban Planning (3)
- 48541 Geography of American Cities and Suburbs (3)
- 48551 Environmental Conservation (3)
- 48560 Problems of Population (3)

** The internship and co-requisite seminar may only be taken with the chair's permission and after the major has been completed or nearly so.*

Regional courses:

- 48240 World Geography (3)
- 48260 Understanding China (3)
- 48301 Geography of the United States (3)
- 48307 Understanding Latin America (3)
- 48506 Contemporary China (3)
- 48510 Land and People of Latin America (3)
- 48536 Geography of New York State (3)

Geography (Emphasis in Planning)

55-58 credits

Required Courses.....25 credits

In addition to the four required courses listed for the regular geography major, students in this emphasis must take:

- 48401 Geography of Cities and Suburbs (3)
- 48560 Problems of Population (3)
- 48410 Regional Planning and Development (3)
- 48526 Urban Planning (3)

Cognate Courses.....21-23 credits

In addition to the four cognate courses listed for the regular geography major, students in this emphasis must take 3 of the following courses:

- 33304 Public Finance (3)
- 33422 Urban Economic Problems (3)
- 58304 Development of the American City (3)
- 77310 Public Management (3)
- 77316 American Public Policies (3)
- 77318 Local Politics (3)
- 87345 Cities and Suburbs (3)

Electives..... 9-10 credits

Three courses at the 300 or 400 level selected with advisement from the list of Systematic and Regional courses in geography.

In addition, although not required, students in the planning emphasis are encouraged to devote a semester to the Internship in Geography (48480) and the co-requisite Internship Seminar (48481), both of which may be taken after the major has been completed or nearly so.

Minor in Geography

18 credits

Required Courses..... 9 credits

- 48252 Economic Geography (3)
- 48273 Basic Physical Geography (3)
- 48274 Environment and Culture (3)

Electives..... 9 credits

Three geography courses at the 300 or 400 level selected with advisement.

Liberal Arts Designation

All courses count toward the liberal arts requirements.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

48240 World Geography (3)

A study of world patterns of physical environments, cultural regions, and economic development, followed by a focus on specific regions from among the following: Latin America, Africa, Asia and/or the Middle East.

48250 Maps & Graphics: Measures & Symbols (3)

Introduces the methods and practice of the collection, interpretation and processing of graphic and numeric data to analyze and illustrate relationships using quantitative measures and symbols. Prerequisite: C- in 64050 or MPL 3.

48252 Economic Geography (3)

Geographical factors and interpretive theories related to patterns of population density, economic development, international trade, and economic production.

48260 Understanding China (3)

This course describes and evaluates recent social and economic patterns in China. Viewing these patterns from a geographic perspective highlights the process of socialist transformation.

48273 Basic Physical Geography (3)

Selected aspects of the physical environment and their relationships to humankind. Emphasis on study of maps, weather, and regional climatology.

48274 Environment and Culture (3)

An analysis of the distribution and character of interrelationships between humankind and the environment, including such topics as origin and dispersal of technology, livelihood patterns, and urbanization.

48301 Geography of the United States (3)

Geographical patterns of the natural, economic, social and political features as they interrelate to form

the regions of North America. Prerequisite: One geography course or PI.

48307 Understanding Latin America (3)

Synthesis of the physical, cultural, and economic realities in Latin America.

48381 Cartography (4)

History and principles of map-making, projections, scales, symbols, design, and mapping systems in relationship to effective presentation and communication of geographic data and analysis of spatial relationships. Computer applications are included. Lecture and laboratory.

48382 Remote Sensing (3)

Principles, methods, techniques of remote sensing -- including air photo interpretation and photogrammetry; their use in identification, analysis, and management of physical, cultural, and economic resources, application to geography and related physical and social sciences. Computer applications are included. Prerequisite: 48273 and 48381, or PI.

48383 Introduction to Geographic Information Systems (3)

An introductory overview of geographic information systems (GIS), a major technological innovation in the analysis and presentation of spatial data. Topics include theoretical and practical aspects of spatial data collection, storage, analysis, and display. Computer lab projects providing practical experience with popular GIS hardware and software are an essential part of this course. Prerequisite: PI.

48401 Geography of Cities and Suburbs (3)

Form and function of cities in terms of distribution, location, and development, through the use of appropriate theories and cases selected from the United States and abroad. Prerequisite: One geography course or PI.

48405 Political Geography (3)

Analysis of the causes and consequences of the geographical patterns of political phenomena, with emphasis on nations and states. General principles will be illustrated by case studies. Prerequisite: One geography course or PI.

48406 Natural Resources: Utilization and Management (3)

Distribution, use, and management of natural resources as they affect economic development in both the historical and present sense. Prerequisite: One geography course or PI.

48410 Regional Planning and Development (3)

Study of different planning processes to reduce regional disparities of development to realize hitherto undeveloped potentialities of regions. Case studies selected from regional development projects in the U.S., Canada, Europe, Africa, and Asia. Prerequisite: 48252 or PI.

48412 Location Analysis in Business and Industry (3)

Analysis of the concepts, methods, and data sources that are used to make locational decisions at the international, regional, and local levels. Prerequisite: 48252 or 20325, or PI.

48480 Internship in Geography (9)

Opportunity for students to gain experience related to the geography curriculum. Work as an intern in one of the agencies cooperating in this program. These governmental and private agencies are involved

in planning and environmental concerns. Content of the course varies with the interest of the student and the nature and needs of the cooperating agency. Prerequisite: PC. Co-requisite: 48481.

48481 Internship Seminar (3)

Academic complement to 48480. Interns and faculty meet to relate concepts of academic discipline to internship experience. Prerequisite: PC. Co-requisite: 48480.

48483 Geographic Information Systems Applications (3)

An intermediate-level exploration of theoretical and practical issues arising in the use of typical geographic information systems (GIS) applications. Representative examples of a variety of GIS applications will be analyzed. Computer lab projects providing practical experience with popular GIS hardware and software are an essential part of this course. Prerequisite: PI and 48383.

History

Phone: (845) 257-3545

Location: Jacobsen Faculty Tower Room 814

Web address: www.newpaltz.edu/history

The History Department offers courses that vary in scope from broad to specialized, that vary in teaching method from lecture to discussion, and that are offered at both undergraduate and graduate levels. Students who wish to major in history may develop considerable concentration in an area listed below. The department offers courses with a global or regional perspective. With the aid of advisors, students are encouraged to design curricula that are suitable to their own needs and interests in history and in complementary fields such as other social sciences, philosophy, literature, and art.

Senior Thesis with Honors in History

Qualified students pursuing a liberal arts major in history may apply to research and write a senior thesis under the direction of a member of the department. Successful completion of the thesis will enable the student to graduate with honors in history, a distinction that will appear on the College transcript. Application must be made during the pre-registration of the last semester of the junior year. For further details, consult with the chair of the History Department.

Qualifications: Open to department liberal arts majors only; 3.00 cumulative average in all course work at the College; 3.50 average in history course work; a minimum of 24 credits in history before acceptance.

Major in History

33 credits

Required Courses.....21 credits

Each major is required to complete 6 credits in United States history; 6 credits in European history, 6 credits in non-Western history, and the seminar in history or its equivalent.

Electives.....12 credits

Each major is required to complete by advisement, 18 credits of electives in history.

Students must earn a grade of "C-" or better in courses used in the History major.

Minor in History

18 credits

The History Department offers a minor program designed both to give students a substantial grasp of the discipline and to broaden the intellectual range associated with other major programs.

Four courses are required in one of the following areas (at least two of those courses must be at the 300 level or above):

- a. Ancient and Medieval Europe
- b. United States
- c. Modern Europe Since 1500
- d. Near East and Jewish History
- e. Asia
- f. Women

Two courses are required outside of one of the above areas and should be chosen with prior advisement.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

58101 The Modern World (4)

Survey of world societies, rise of the west, capitalist world system and challenges to it, cultural and material interchanges among major world civilizations, formation of industrial-urban societies, and political and ideological foundations of present global civilizations.

58202 History of the Ancient Near East (3)

A review of the Paleolithic and Neolithic eras followed by a study in depth of the civilizations of ancient Mesopotamia, Egypt, the Holy Land, Persia, and the rest of the Near East. It is recommended that 58202 be completed prior to 58203 and 58204.

58203 History of Ancient Greece (3)

History of ancient Greece to the end of the Hellenistic period.

58204 History of Ancient Rome (3)

A study in depth of ancient Roman history from the beginnings, through the Republic, to the end of the Roman Empire in the west.

58205 The Jewish Experience (3)

The social, ethnic and spiritual dimensions of the Jewish people and Jewish civilization approached through topics of the Jewish calendar and festival cycle, life-cycle, diet, dress, Jewish theology, worship and sacred literature; and, anti-Semitism.

58207 Medieval Europe (3)

Rise of Christianity to the invention of the printing press. The synthesis of Roman and Germanic

cultures, social organization, and interaction between Christianity and non-Christian cultures.

58214 Modern Europe 1500 to Present (3)

The political, economic, and social evolution of Europe from the Renaissance to the present.

58221 United States History to 1865 (3)

Beginning with colonial roots, traces the growth of the American Republic from its birth in the War for Independence to its testing under forces of sectionalism in the Civil War.

58222 United States History Since 1865 (3)

Continuation of 58221. Analysis of the forces that shaped the modern industrial nation after the Civil War and resulted in the emergence of the United States as a world power.

58243 History of the Middle East since 570 (3)

The Middle East from the rise of Islam to the present, concentrating on the Muslim religions, and the emergence and development of Muslim culture and societies.

58302 American Immigration (3)

Examines the numerous immigrant groups in American society from the seventeenth century through the present and focuses on adaptation to American values, and the changing culture of the United States.

58303 The Empire State (3)

Surveys New York State's growth from beginning to present emphasizing the changing character of its people, society, economy and government.

58304 Development of the American City (3)

Traces the evolution of the colonial town through the era of megalopolis. Examines the social, cultural, political and intellectual ingredients that comprise American urban society.

58305 Women in European History (3)

Women in European history from the Middle Ages to the present, concentrating on women and work, love and sexuality, courtship and marriage, legal issues, women and reform, and the growth of feminist consciousness.

58308 Indians of New York State (3)

A history of the Native Americans of New York state from contact to the present. Special attention will be given to the Iroquois, Delaware, Mohican and Long Island Indian experiences.

58309 Indians of the United States (3)

History of American Indians from initial European contact to the present: Cherokee, Iroquois Confederacy, the Navajo, and the Sioux; development and impact of governmental policies in the United States; rise of native American militancy and protest.

58310 Indians of the Eastern Woodlands (3)

A history of the Native Americans east of the Mississippi from contact to the present. Special attention will be given to the Cherokee, Choctaw, Huron, Iroquois Confederacy, Lumbee, Shawnee, Stockbridge and Wampanoag experiences.

58311 Modern Germany (3)

Evolution of Germany since the French Revolution, the establishment of the German empire, the Weimar Republic, the Nazi regime, and the post-World War II division of Germany.

58313 Women in Medieval Europe (3)

Introduction to how medieval women negotiated such concerns as social status, legal inferiority, religious vocation, chivalry, and work through readings of both primary and secondary works.

58315 Traditional China (3)

Chinese history and culture from earliest times through the Ming Dynasty (1368-1644), including aspects of politics, economics, social structure, religion, philosophy, folk culture, and literature.

58316 Modern China (3)

Chinese history and culture from the late Ming Dynasty (1368-1644) to contemporary times.

58317 World War II (3)

Survey of military, political, social and cultural history of World War II from the viewpoint of world history.

58321 Colonial America (3)

Social, political, and cultural development of early American communities (1607-1763).

58322 The American Revolution (3)

Treats the Revolution as a bridge between the colonial inheritance and an independent republic. Focuses on the causes of the Revolution, the war, and the nation's character under the 1787 Constitution.

58324 American Civil War (3)

Social, economic, cultural and political context within which Civil War came about. Analysis of slavery, racial attitudes, capitalism, ideology, nationalism and power, violence and change.

58328 American Social and Cultural History: 1877 to Present (3)

American values as expressed in institutions, politics, literature and social behavior. Impact of industrialization, urbanization, and immigration on the American people.

58329 Postwar America: 1945 to Present (3)

Domestic and international developments resulting from the rise of the United States to global power. Emphasis on the origins and development of the Cold War, McCarthyism, and Vietnam. Analyzes the effects of American affluence on occupational and class structure, education, religion, political and social behavior. The emergence in the 1960's of the Civil Rights Movement, the New Left, and the counterculture and recent developments placed in historical perspective.

58332 Imperial Russia (3)

This course traces the rise of the Russian Empire from the time of Peter the Great through the Revolution, examining the political, economic, and cultural circumstances that led to the expansion as well as the collapse of the Empire.

58333 Soviet Union (3)

Development of the Soviet Union from an agrarian country to an industrial state. Methods and achievements of the Bolshevik leaders and the Communist Party; factors making the Soviet Union a leading world power and leading to its demise.

58334 Traditional Japan (3)

Japanese history and culture to the Tokugawa period (1600-1868), including geography, language, religion, social structure, government, politics, economy, trade, domestic and foreign policy.

58335 Modern Japan (3)

Chronological account of Japanese history and culture from the seventeenth century to modern times, including geography, language, religion, social structure, government, politics, economy, trade, foreign policy, and defense.

58344 The Middle East in the 20th Century (3)

An introduction to the diverse history, societies and peoples of the Middle East since World War I, and the impact of imperialism and nationalism on Muslim societies and culture.

58346 The Black Death (3)

The initial fourteenth-century outbreak of the bubonic plague killed one third of the European population. Its reappearance kept the population low and had a profound impact on economic, social, cultural, and religious development.

58348 Medieval Society (3)

Changes in the social organization of Medieval Europe. How peasants, nobles, townspeople, and monks and nuns lived and died.

58349 Renaissance and Reformation (3)

The Renaissance, its relation to the Reformation, and causes and effects of both movements.

58350 Early Modern Europe (3)

Examination of pre-industrial, agrarian European society, family structures, demography, towns, rise of national bureaucracies, and the European overseas expansion of the seventeenth and eighteenth centuries.

58353 Twentieth-Century Europe (3)

Study of Europe since 1890: imperialism, the world wars, fascism, communism, genocide, the European Economic Community, and the communist regimes in eastern Europe. Prerequisite: 58214 or one course in modern European history.

58367 Business and Society (3)

Study of the formation of American business institutions emphasizing social and political values from the merchant capitalists to the multinational corporation.

58369 Ancient Israel (3)

Ancient Israel from the Patriarchal period (ca. 1900 B.C.E.) to the Hellenistic period (ca. 160 B.C.E.). Selected archaeological sites, readings in the Bible, and analysis of evidence from contemporary extra-Biblical sources.

58370 Bible: Myth and History (3)

What is the Bible and how did it come to be written? May it be used as a source for history? What is the relationship between mythology and history? We will analyze a number of early biblical stories with these questions in mind. Prerequisite: Upper Division status.

58371 World Jewish History I (3)

The Jews from the Hellenistic Period to the Renaissance, including the Jews under Rome, life under Christianity and Islam, the continuing Diaspora of the medieval Jewish community, and the beginnings of modern Jewish life.

58373 The Holocaust (3)

Brief survey of the status and condition of European Jewry before World War II and analysis of the anti-Semitic movements with particular attention to the theory and practice of the Nazis. Detailed study of the stages in the destruction of European Jewry with comparisons of the course of the Holocaust in various countries and the different reactions of different Jewish and non-Jewish communities.

58374 American Jewish Experience (3)

Jews in America from seventeenth century to the present. Emphasis on the period after 1880. Exploration and analysis of immigration, the culture of the lower east side, labor movements, mobility, ethnic continuity, religion, American Zionism.

58382 Roman Catholics in the United States (3)

In view of new, heightened consciousness of the role of ethnic and religious communities in shaping the American tradition, this survey contributes to an understanding of the role of the Catholic minority to our national history.

58383 Religion in the United States (3)

A historical survey of the role of religion in American life and thought, with emphasis upon the quest for liberty of conscience and worship, utopianism, and the relation between religion and modern secular culture.

58433 Russian Intelligentsia: Resistance & the State in Russia (3)

Intellectuals played a singular role in the creation of the Soviet Union and the development of Soviet ideology. This course examines the relationship between intellectuals and the state from the Russian Revolution to the collapse of the Soviet Union. Prerequisite: 58332 or 58333 or PI.

58461 Hudson Valley Culture (3)

Introduction to the Hudson Valley as a cultural milieu in the colonial, revolutionary, and early national periods of American history. An examination of the lives, thought, and works of Hudson Valley figures and their contributions to American thought and culture.

58467 The United States in Vietnam (3)

The origins, nature and consequences of America's involvement in Vietnam. Prerequisite: 58222 or PI.

58469 U.S. Foreign Policy Since 1900 (3)

Selected topics in the history of American foreign policy from the end of the Spanish War through the Vietnam War.

58470 Age of "Discovery" 1415-1780 (3)

This course tracks the discovery by Europeans of other parts of the globe, 1415-1780. Intellectual, economic, social, and political consequences of the increasingly intense interaction between Europeans, particularly the English and the Spanish, and peoples of other regions. The course concentrates on the Atlantic World, but includes the eastern hemisphere. Prerequisite: One history course.

58480 Women in China (3)

Analyzing the meaning of woman in China from late Ming to the present, this course sharpens critical skills in thinking about gender differences and deepens understanding of modern China's culture and society.

58492 Seminar in History (3)

Training in historical research methods through the critical reading of historical materials, primary research on selected topics, and the presentation of reports. Prerequisite: History or social studies major or PC.

58496, 58497 Senior Thesis in History I, II (3 each)

Qualified students pursuing a liberal arts history major may apply for admission to the history honors program. Independent study and writing of a thesis under the supervision of faculty on a topic selected by the student. Successful completion means the student graduates with honors in history, a distinction that will appear on the permanent record. Credit for 58496 not allowed unless 58497 is completed. Prerequisite: PC.

Interdisciplinary

New Paltz offers the following courses that combine elements of two or more traditional disciplines.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses**99201 Natural History of an Estuary (3)**

Interdisciplinary study of an estuary to demonstrate the interaction of the biological, chemical, geological, and meteorological influences on productivity, using the tidal reach of the Hudson River as a model. Prerequisite: One year of college science and PI.

99250 Assessment of Non-Traditional Learning (3)

The Non-Traditional Learning Program enables qualified students to earn college credits for knowledge gained through life experience. Learning sources include work, in-service training, hobbies, volunteer work and non-credit courses. Development and completion of a portfolio to document college-level learning.

99490 Honors Senior Project (3-6)

Fulfills the project requirement for seniors in the Honors Program. The project will be an individualized research project, field study or artistic endeavor that represents an accumulation of the undergraduate experience for an Honors Student. Proposal should be submitted during spring semester of junior year. Prerequisite: Permission of Honors Program Director.

Jewish Studies

The Jewish Studies program enables students to take courses in a number of disciplines including history, international relations, language, religion, culture, and literature. An interdisciplinary minor is available to interested students. The minor requires 15 credits of approved courses. One year of a language (Hebrew or Yiddish) is recommended, but not required.

Minor in Jewish Studies

15 credits

56101	Elementary Hebrew I (3)
56102	Elementary Hebrew II (3)
56201	Intermediate Hebrew (3)
56205	Jewish Experience (3)
56401	Jewish Philosophy (3)
58369	Ancient Israel (3)
58370	Bible: Myth and History (3)
58371	Jewish History I (3)
58373	The Holocaust (3)
58374	American Jewish Experience (3)
71270	Religions of the World (3)
77330	Politics in Israel (3)
77337	Israel in World Politics (3)

Journalism Program

Web Address: www.newpaltz.edu/comm_media

The Journalism Program offers students practical training in how to gather and write news, as well as a theoretical understanding of how the news media operate in American society. The program focuses on developing skills that will prepare students for careers in newspapers, magazines, and public relations.

Students in news writing courses work in computer laboratories, writing stories under deadlines. In other classes they edit and design publications on state-of-the-art computers. All journalism students are required to complete an internship. Many do so at the Legislative Gazette, a weekly newspaper in Albany. The Gazette, which has a full-time professional editor, readies students for the work force, where more than one-third of the nation's economy is now centered on the processing of information.

Students who declare a major in public relations take a combination of theoretical and practical courses in journalism, ethics, persuasion, media and advertising, as well as public relations.

The major prepares public relations practitioners to become communication experts within corporate, non-profit and government organizations, and public relations agencies. Students learn how to write and design public relations materials and how to plan public relations campaigns and special events. Both oral and written communication skills are emphasized. An important component of the public relations major is learning how to conduct research.

Students who wish to concentrate in Public Relations must have a 2.50 GPA to enter the program.

Journalism

42-45 credits

Required Courses.....36-39 credits

- 53230 Journalism I (4)
- 53232 Journalism II (4)
- 53312 Copy Editing and Layout (3)
- 53313 Public Affairs Reporting (3)
- 53314 Feature Writing (4)
- 53334 The Literature of Journalism (3)
- 53347 Media Ethics (3)
- 53452 Mass Media Law (3)
- 53461-3 Fieldwork (6-9)
- 53464 The Press in America (3)

Two of the following:

- 41224 Expository Writing (3)
- 41226 Practical Grammar (3)
- 53315 Public Relations in America (3)
- 53393 Special Topics (3)
- 53465 Newspaper Organization and Management (3)
- 53468 Photojournalism I, II (3)
- 77319 Politics and Media (3)
- 90101 Media and Society (3)

Journalism Minor

20 credits

Required Courses.....17 credits

- 53230 Journalism I (4)
- One of the following:*
- 53232 Journalism II (4)
- 53312 Copyediting (3)
- 53313 Public Affairs Reporting (3)
- 53314 Feature Writing (4)

Two of the following:

- 53334 The Literature of Journalism (3)
- 53347 Media Ethics (3)
- 53452 Mass Media Law (3)
- 53464 The Press in America (3)

One of the following..... 3 credits

- 53461 Fieldwork in Journalism I (3)
- 53462 Fieldwork in Journalism II (3)
- 53463 Fieldwork in Journalism III (3)

Public Relations

40-41 credits

Required Lower Division Courses.....10 credits

- 53230 Journalism I (4)
- 90101 Media and Society (3)
- 90221 Introduction to Advertising (3)

Required Upper Division Courses.....21-22 credits

- 53315 Public Relations 1 (3)
- 53316 Public Relations 2 (3)
- 53317 Public Relations Publishing (3)
- 53347 Mass Media Ethics (3)
- 90353 Theories of Persuasion (4)
- 90360 Organizational Communication (3)

One of the following:

- 53314 Feature Writing (4)
- 53332 Journalism II (4)
- 90319 Electronic Media Writing (3)

Electives..... 9 credits

- 20325 Marketing (3)
- 53464 The Press in America (3)
- 90104 Public Speaking (3)
- 90323 Communication Technology (3)
- 90350 Media Research Methods (4)
- 90354 Communication Research Methods (4)
- 90431 Advertising Sales (3)
- 90432 TV in American Culture (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

53230 Journalism I (4)

An introduction to the evaluation, gathering, and writing of news. Students write both hard or breaking news stories and feature or human interest stories. Basic techniques in writing and reporting are covered. Prerequisite: Two freshman English courses.

53312 Copy Editing and Layout (3)

Practical course in editing of newspaper copy and page layout with intensive study of copy reading techniques. Prerequisite: C in 53230.

53313 Public Affairs Reporting (3)

A course to develop the skills of newspaper reporting on government on local, county, and state levels. Provides the opportunity to observe and report on legislative bodies and committees, school boards, police, and the court system. Prerequisite: PC and C in 53230.

53314 Feature Writing (4)

Practice in writing non-fiction for publication. Prerequisite: C in 52320.

53315 Public Relations 1 (3)

A theoretical and practical introduction to the (1) role of public relations in an information-based, democratic society and (2) skills involved in relaying information to and getting feedback from various publics. Focus on preparation of material, especially press releases, for editors in print and electronic media.

53316 Public Relations 2 (3)

This course is for students planning a public relations career. Students will analyze through case histories outlining the application of public relations theory and tactics by organizations dealing with a broad range of social, political, economic and cultural issues. Two individual projects/presentations. Frequent small group discussion work. Prerequisite: PI and 53315.

53317 Public Relations Publications (3)

Theory and practice of layout and design for newsletters, brochures, magazines, and other publications used to promote the views, products, or services of organizations or companies. Prerequisite: PI and 53315.

53332 Journalism II (4)

Advanced reporting course in gathering and writing the news. Specialized types of reporting are covered, including coverage of speeches, press conferences and meetings; police and court events; human and social services; government bureaucracies and the environment. Prerequisite: PI and C in 53230.

53334 The Literature of Journalism (3)

An inquiry into the link between literary and journalistic forms of writing, especially in the twentieth century. Prerequisite: Two freshman composition courses.

53347 Media Ethics (3)

Examines the broad range of ethical dilemmas faced by journalists in gathering and writing the news. Topics include conflicts of interest, business pressures, reporter-source relationships, invasion of privacy, and objectivity. Uses case-study approach.

53451 Press and Government (3)

An exploration into the relationship between press and government and especially how that relationship differs in authoritarian and democratic societies. Case studies reinforce theories.

53452 Mass Media Law (3)

Designed to introduce issues relating to the free speech guarantees of the First Amendment to the Constitution. It focuses on interpretations of the First Amendment, functions of free speech in a democracy, and Supreme Court decisions relating to regulation of print and electronic media.

53453 Advanced Editing (4)

This course offers advanced training in computer-assisted editing and layout through the production of magazine-like publications. Prerequisite: 53312.

53454 Muckraking Journalism (3)

A history and analysis of investigative reporting from the turn of the century, when it was known as muckraking journalism, to the 1960's and 1970's, when it flourished again.

53461, 53462, 53463 Fieldwork in Journalism I, II, III (3 each)

Independent work with the Legislative Gazette, a weekly newspaper published in Albany, newspapers in the Hudson Valley or in the student's home community. Majors in journalism are required to work at the Gazette. Prerequisite: 53230, 53312, 53314.

53464 The Press in America (3)

The news media's impact on American society. Contemporary issues involving press freedom and control. Development of American journalism from pre-revolutionary times to the present.

53465 Newspaper Organization and Management (3)

An examination of a newspaper's role in the community, the influence of computer technology on the industry, and the departmental relationships necessary to produce a successful product. Prerequisite: 53230.

53468 Photojournalism I (3)

Designed for the student who wants to develop the discipline and skills required for effective photojournalism. Individual projects will be coupled with discussions, critiques, and visits from professional photojournalists.

53469 Photojournalism II (3)

Emphasis on a single project upon which to base an in-depth photographic account. Prerequisite: 53468.

Latin American Studies

Web Address: www.newpaltz.edu/las

The Latin American Studies program is an interdisciplinary program of academic work designed to give students a broad understanding of Latin American societies, literature, arts, history and languages. Since 1985 the program has offered a minor in Latin American Studies.

The Latin American Studies program is coordinated by the Latin American Studies Committee, composed of faculty members in several disciplines who teach courses about Latin America and provide academic advising to students taking courses in the program. The Committee seeks to maintain high academic standards in the program by reviewing the progress of students and approving appropriate courses for credit toward student's programs.

Recent assessments of future employment trends indicate that over 6,000 employees with expertise in Latin America will be needed by government and business employers in the coming decade.

Major in Latin American Studies

30-48 credits

Required Courses..... 6 credits

- 61270 Introduction to Latin American Studies (3)
- 61495 Independent Study (senior project) (3)

Content Courses on Latin America.....24 credits

A total of 24 credits, distributed as indicated below. The 24 credits must be taken from at least three different departments.

*Group A: **History and Social Science Perspectives** (at least 9 credits)*

- 07304 Ancient Mesoamerica (3)
- 17231 Development of Afro-Latin American Civilizations (3)
- 17309 Introduction to Afro-Brazilian History (3)
- 17311 Blacks in the Caribbean (3)
- 48307 Understanding Latin America (3)
- 48510 Land and People of Latin America (3)
- 77371 Latin American Politics (3)

Or other appropriate courses with significant Latin American content in history or social sciences, under advisement; for example, appropriate Selected Topics courses (XX393, XX493, XX593).

*Group B: **Literature and the Arts** (at least 6 credits)*

- 89369 Spanish American Literature I (3)
- 89370 Spanish American Literature II (3)
- 89471 Spanish American Novel (3)
- 89473 Spanish American Drama (3)
- 89372 Culture of Latin America I (3)
- 89565 Spanish American Poetry (3)
- 89567 Approaches to Spanish American Culture (3)
- 89573 Latin American Poetry of the 20th Century (3)
- 89575 Seminar in Spanish American Literature (3)

Or other appropriate courses with Latin American content in literature, music, art, or related subjects, under advisement, for example appropriate Selected Topics courses (XX393, XX493, XX593).

Language Requirements..... 0-18 credits

- 89101 Elementary Spanish I (3)
- 89102 Elementary Spanish II (3)
- 89201 Intermediate Spanish I (3)
- 89202 Intermediate Spanish II (3)
- OR
- 89113 Elementary Spanish for Native Speakers I (3)
- 89114 Elementary Spanish for Native Speakers II (3)
- 89213 Intermediate Spanish for Native Speakers I (3)
- 89214 Intermediate Spanish for Native Speakers II (3)

AND IN ADDITION TO EITHER SEQUENCE ABOVE, AT LEAST ONE OF THESE:

- 89301 Spanish Composition and Conversation I (3)
- AND/OR
- 89361 Spanish Composition and Conversation II (3)

Minor in Latin American Studies

18 credits

Each candidate is expected to complete 6 courses in at least 3 different areas for a total of 18 credits.

Courses taken for a major cannot be applied to the minor in Latin American Studies. Knowledge of Spanish or Portuguese is desirable but is not a requirement for the minor.

Liberal Arts Designation

All above courses count toward the liberal arts requirement.

Course

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

61270 Introduction to Latin American Studies (3)

Broad historical and geographic outlines of Latin America stressing cultural diversity, economic development, and revolution and militarism. Case studies of individual countries.

Law and Related Legal Studies

The Law and Related Legal Studies program at New Paltz provides students interested in law with two ways to structure their courses in this field. Students may either (1) declare a major in Political Science, with a concentration in Law, or (2) students may declare a minor in Law and Politics, offered in the Department of Political Science and International Relations. The Law concentration within the Political Science major requires 12 credits of upper-division, law-related courses offered in the department. The Law and Politics minor is an 18 credit, interdisciplinary program, with law-related courses from such departments as Political Science, International Relations, Philosophy, Journalism, Business, Sociology and Black Studies. For further information on both of these programs, see the chair of the Department of Political Science and International Relations (JFT 806), the pre-law advisor (JFT 808), as well as program and course descriptions elsewhere in this catalog.

Linguistics

Phone: (845) 257-2760

Location: Faculty Office Building West 2

Web address: www.newpaltz.edu/blackstudies

An interdepartmental minor program in linguistics is available to students interested in the scientific analysis and comparison of languages or in improving their theoretical understanding of language in connection with practical language study. Students who might be interested in a linguistics minor would usually major in a subject such as anthropology, communication, computer science, English, French, German, philosophy, psychology, or Spanish and any education curriculum. Completion of the linguistics minor adds strength to such majors.

For the minor in linguistics the student must take Linguistics 63201, Introduction to Linguistics; and, by advisement, fifteen credits in courses from among those listed under "Linguistics" each semester in the Schedule of Classes. Students will ordinarily be advised to take at least one course in syntax and one in phonetics. Students may utilize cognate courses in such areas as acoustics, or speech pathology to satisfy minor requirements. Students must complete at least twelve credits from outside their major department toward the linguistics minor.

Minor in Linguistics

18 credits

Required Courses..... 9 credits

63201 Introduction to Linguistics (3)

AND

Any two of the following:

- 41226 Practical Grammar (3)
- 41527 Development of Modern English (3)
- 63493 Selected Topics (3)
- 80402 Psychology of Language (3)
- 88260 Sign Language I (3)
- 90302 Phonetics (3)
- 90313 Sociolinguistics (3)

Electives..... 9 credits

Any of the courses listed above or any of the following courses may be taken as electives. Twelve of the eighteen credits should be from courses outside the student's major department.

- 17396 Black English: Language and Culture (3)
- 41228 Introduction to the English Language (3)
- 63494 Fieldwork in Linguistics (3)
- 63495 Independent Study in Linguistics (3)
- 71336 Philosophy of Language (3)
- 88361 Sign Language II (3)
- 88362 Sign Language III (3)
- 90306 Language Development in Children (3)
- 90310 Anatomy and Physiology of Speech (4)
- 90355 Non-verbal Communication (3)
- 90452 Communication and Gender (3)

Students wishing to declare and pursue the minor should contact the Black Studies Department at FOB West 2 or (945) 457-2760 for advisement.

Course

63201 Introduction to Linguistics (3)

Basic phonetic and grammatical concepts for the scientific analysis and comparison of languages. Nature of dialects, language development, writing. Major language families.

Native American Studies

The interdepartmental, interfaculty minor in Native American studies is designed to promote cultural awareness of the unique heritage and significant contributions of the first Americans.

A minimum of 21 credits is required, to be selected from Native American courses listed below; up to 6 credits may be taken in courses listed under related areas below.

Native American Courses

- 07303 Indians of North America (3)
- 07304 Ancient Mesoamerica (3)

- 07312 North American Archaeology (3)
- 07314 Archaeology of New York State (3)
- 07434 Archaeological Field School (9)
- 11389 Art of Pre-Columbian America (3)
- 58308 Indians of New York State (3)
- 58309 Indians of the United States (3)
- 58310 Indians of the Eastern Woodlands (3)

Related Areas

- 07315 Historical Archaeology (3)
- 33418 Economics of Development (3)
- 38539 Social Foundations in Education (3)
- 38580 Current Issues in Education (3)
- 48301 Geography of the United States (3)
- 48307 Understanding Latin America (3)
- 48510 Land and People of Latin America (3)
- 48536 The Geography of New York State (3)
- 58303 The Empire State (3)
- 58321 Colonial America (3)
- 58327 American Social and Cultural History to 1876 (3)
- 87315 Racial and Ethnic Relations (3)

Nursing

Phone: (845) 257-2922

Location: van den Berg Learning Center Room 205

Web address: www.newpaltz.edu/nursing

The upper-division baccalaureate program in nursing provides an opportunity for registered nurses who wish to change or expand their educational and/or career goals. The program confers an understanding of the human health-illness experience and the theoretical underpinnings needed for professional practice. It strives for a synthesis of learnings from the liberal arts and sciences with the discipline's body of knowledge. The practice of nursing is operationalized in this curriculum by the enactment of five interrelated roles: clinician, educator, leader, advocate and researcher from an appropriate theoretical perspective.

At the baccalaureate level, nursing education prepares professional nurse generalists who can deliver health care to individuals, families, communities, and societal groups. The program is designed to cultivate professional nursing practice and to provide nurses with a sound academic foundation for pursuing graduate study in nursing. At the graduate level, nursing education prepares professional nurses for advanced practice.

Faculty guide and collaborate with the adult learner for the attainment of educational goals through directed and self-directed learning experiences. They seek to expand in the learner the commitment for continued learning and contributions to professional practice. Selected clinical assignments afford the student the opportunity to deliver direct nursing care to clients in a variety of settings.

Acceptance into the Nursing Major

Students seeking admission to the baccalaureate program in nursing for registered nurses must satisfy the following requirements:

1. Graduation from an accredited or a state-approved associate degree or diploma program in nursing with a cumulative grade point average of 2.50 or better.
2. Current licensure as a registered nurse in New York State and professional liability coverage. (Applicants awaiting the results of the licensing examination, who meet all other admission requirements, may be offered provisional admission to the nursing major. Failure to achieve licensure by the end of the first semester will result in the student being limited to non-nursing courses until licensure is granted).
3. Ability to meet both college and clinical agency health requirements.
4. Three letters of reference from individuals who can attest to the applicant's potential for upper-division nursing education.
5. Completion of the following lower-division prerequisite course work with a grade of "C" or better in each course:

English Composition	6 credits
Introductory Sociology.	3 credits
General Psychology	3 credits
Developmental Psychology.	3 credits
*Elementary Statistics	3 credits
General Chemistry	3-4 credits
Anatomy & Physiology	7-8 credits
Microbiology	3-4 credits

**NOTE: Statistics is a prerequisite for senior year courses. It may be taken prior to entry into the program, but must be taken prior to entry into 70400, Research in Nursing.*

6. The National League for Nursing Mobility Profile II is used to validate 30 semester hours of lower-division nursing credits. Students must achieve at the 40th percentile or above in all four sections of the exam within three tries, the test scores of which are valid for five years. Students may be exempted from this exam if they graduated from an NLN accredited associate degree program in nursing with a grade point average of at least 2.50 and begin the first BSN clinical course 70320, Individual Health, within five years of graduation.

NOTE: The following criteria must be met before entrance into the upper-division Nursing Clinical Sequence:

- Official acceptance to the State University of New York at New Paltz as a matriculated student for the BSN degree. Contact the Office of Admissions (845) 257-3200 for information.
- Official acceptance into the Nursing Major. Contact the Department of Nursing (845) 257-2922 for information.
- Submission of a completed Departmental Health Form documenting immunization history, Rubella

and Hepatitis B status, and annual physical examination by the student's health care provider.

- Verification of current liability insurance, annual training in blood borne pathogens and universal precaution, and current licensure as a registered nurse in New York State.
- If required, successful completion of all sections of the NLN Mobility Profile II exams.
- Successful completion of all lower-division prerequisite course work with the exception of Statistics that must be completed prior to enrollment in 70400, Research in Nursing.
- Successful completion of, or concurrent registration in, the following courses:
70300 Perspectives in Professional Socialization
70340 Contemporary Health Education Issues
15445 Pathophysiology

Registration in nursing courses is by instructor's permission and will generally not be open to non-majors.

Major in Nursing

45 credits

Required Nursing Courses.....36 credits

- 70300 Perspectives in Professional Socialization (2)
- 70310 Leadership & Management (3)
- 70315 Business Environment of Nursing (3)
- 70320 Professional Nursing Practice in Individual Health (4)
- 70340 Contemporary Health Education Issues (3)
- 70400 Research in Nursing (3)
- 70421 Professional Nursing Practice in Family Health (6)
- 70422 Professional Nursing Practice in Community Health (6)
- 70430 Professional Nursing Practice in Societal Health (6)

Required Liberal Arts & Sciences Courses..... 9 credits

- 07481 Transcultural Health (3)
- 15443 Pharmacology (3)
- 15445 Pathophysiology (3)

General Education Requirements

Students graduating from the State University of New York at New Paltz must fulfill a liberal arts general education requirement. This requirement is designed to encourage students to develop an appreciation of the value of learning for its own sake and to pursue the broader goals of self-understanding and comprehension of their world. Nursing majors are allowed to waive certain requirements in General Education and to substitute specified nursing courses for certain General Education requirements. Students will be assigned a nursing advisor in the initial semester of matriculation for individualized program planning.

One hundred and twenty academic credits are required for graduation. All prerequisite and required upper-division course work must be successfully completed with a grade of "C" or higher for progression in the curriculum and graduation from the major.

Liberal Arts Designation

The following courses may not be counted toward the liberal arts requirement: 70320, 70421, 70422, 70430.

Courses

70300 Perspectives in Professional Socialization (2)

A forum for nurses who wish to explore the rationale for baccalaureate education. Focus on examining issues critical in the development of multiple levels of nursing education and practice.

70310 Leadership and Management (3)

An introduction to the theories of leadership, management, group process and planned change. The focus is on designing a professional role in the organizational dimensions of health care delivery. Prerequisite: 70300.

70315 Business Environment of Nursing (3)

An introduction to the concepts and theories of financial management will be explored. Relevant issues and opportunities that confront nursing in the management of health care services will be examined.

70320 Professional Nursing Practice in Individual Health (4)

Introduction to the use of nursing process and theories. Focus on psycho-social and physiological systems assessment in planning care for individuals across the age span. College laboratory. Prerequisite or co-requisite: 70300, 70340, 15445 and PC.

70340 Contemporary Health Education Issues (3)

Introduction to the role of health care teacher/counselor with a focus on theories of teaching and learning applied to health care issues. Prerequisite: 70300.

70400 Research in Nursing (3)

Introduction to the processes of scientific inquiry. Focus on identification of researchable problems and on evaluation of research for applicability of findings to nursing actions. Prerequisite: Introduction to Statistics and 70421 or PI.

70421 Professional Nursing Practice in Family Health (6)

Use of nursing process and theory to implement care for traditional and non-traditional family systems throughout the family developmental stages. Specific nursing intervention strategies with families are addressed. Clinical laboratory. Prerequisite or co-requisites: 70310, 15443, 70320.

70422 Professional Nursing Practice in Community Health (6)

A community is viewed as client. In studying a community, health restoration, health maintenance, and health promotion strategies are explored through the examination of trends and risk reduction methods in selected community health problems. Clinical laboratory. Prerequisite or co-requisites: 70400, all junior year courses.

70430 Professional Nursing Practice in Societal Health (6)

Analysis of the historical, current, and future impact of societal

institutions on concepts of health, health care delivery and professional nursing practice. Clinical laboratory. Prerequisite: All previous nursing courses.

Philosophy

Phone: (845) 257-2980

Location: Jacobsen Faculty Tower Room 916

Web address: www.newpaltz.edu/philosophy/

The Department offers a major and a minor. Students should plan their programs in consultation with the department chair or another member of the Philosophy faculty as soon as they decide to major or minor in philosophy. Philosophy students are urged to complete a minimum of 15 credits in a foreign language, and to gain as broad an education in other subject areas as possible.

Major in Philosophy

36 credits

Required Courses.....21 credits

- 71201 Logic (3)
- 71304 Ethics (3)
- 71309 Ancient Greek Philosophy (3)
- 71312 Modern Philosophy (3)
- 71471 Theory of Knowledge (3)
- 71474 Metaphysics (3)
- 71490 Philosophy Proseminar

Electives.....15 credits

Minor in Philosophy

18 credits

18 credits in philosophy, 9 of which must be in upper-division courses.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the courses listed below, selected topics, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

71110 Reason and Argument (3)

The identification, reconstruction, and evaluation of deductive and inductive arguments. Analytic skills are developed through critical analyses of examples of reasoning found in newspaper articles, scientific journals, statistical reports and ethical debates.

71201 Logic (3)

Techniques for determining the correctness of statements and arguments. Topics include: truth-functional and quantificational logic. Prerequisite: C- in 64050 or MPL 3.

71203 Introduction to Philosophy (3)

Some main problems concerning human beings and their place in the universe as discussed in a selection of classic philosophical texts from Greek antiquity through the early modern period.

71251 Indian Philosophy (3)

Survey of philosophical texts and schools from India, including Hindu and Buddhist representatives. Possible topics include the nature of reality, knowledge, and the individual, the point of human life, and the problem of suffering.

71252 Chinese and Japanese Philosophy (3)

Survey of philosophical texts and schools from China and Japan, including Taoist, Confucian, and Buddhist representatives. Possible topics include the structure of reality and the individual, ideals of human excellence, and the natural world.

71270 Religions of the World (3)

A survey of several major religious traditions, including Hinduism, Buddhism, Judaism, Christianity, and Islam.

71304 Ethics (3)

Examination of the major theories of ethical evaluation and justification. Some attention may be given to questions of relativism, the relation between religion and morality, and contemporary issues.

71305 Business Ethics (3)

Analysis, in light of ethical theories, of moral issues arising in business: economic justice, corporate social responsibility, conflict of interest, investment and production, ethics in advertising, environmental responsibility, discrimination.

71306 Biomedical Ethics (3)

A study of the ethical issues arising in the practice of the medical and health sciences. Issues include abortion, euthanasia, genetic research, cloning, and doctor-patient relations.

71307 Philosophical Psychology (3)

Philosophical issues concerning human mind and behavior. Topics may include: action, intention, motive, cause, desire; psychological theories such as behaviorism and psychoanalysis; cognitive psychology; the mind/body problem. Prerequisite: One course in philosophy or psychology or PI.

71308 Philosophy and Technology (3)

Theoretical and applied knowledge and their place in human life. Ethical, political, and aesthetic issues raised by contemporary technology, with special attention to computers. Artificial intelligence: minds and machines. Historical and contemporary writings.

71309 Ancient Greek Philosophy (3)

A general introduction to the origin and development of philosophical thought among the Pre-Socratics, Socrates, Plato, and Aristotle, with a detailed analysis of representative texts. Problems in metaphysics, epistemology, ethics, politics, and religion in their historical and cultural context.

71310 Later Greek and Roman Philosophy (3)

Selected works of the ancient Stoics, Epicureans, Sceptics, and Neoplatonists in their historical and cultural context.

71311 Medieval and Renaissance Philosophy (3)

Selected works of Jewish, Islamic, and Christian philosophers of the medieval period. The transition from the Middle Ages to Modernity in the Renaissance.

71312 Modern Philosophy (3)

Philosophy of the 17th and 18th centuries: Bacon, Hobbes, Locke, Berkeley, Hume, Descartes, Spinoza, Leibnitz, and/or Kant. Topics may include: subject/object, mind/body, self/other; theories of knowledge; ethical and political theories.

71314 19th-Century Philosophy (3)

Selected authors and problems. Topics may change from year to year. Hegel, Schopenhauer, Marx, Nietzsche, Comte, Mill, and F.H. Bradley are among the authors who may be studied.

71320 God, World, and Soul (3)

The existence and nature of God, reason and faith, religious experience, immortality, miracles, the problem of evil. Ancient, medieval, modern, and contemporary authors of different philosophical and religious persuasions.

71321 Religion, Ethics, and Society (3)

Religion in relation to the development of moral ideas, and to individual morality and social and political institutions. Ancient, medieval, modern, and contemporary authors and documents from Jewish, Christian, and other traditions.

71331 American Philosophy (3)

The development of philosophical thought in the United States, with detailed attention to several major figures such as (but not limited to) Pierce, James, Dewey, Royce, Henry Adams, Emerson, Thoreau, Quine, Cavel, and Rorty.

71336 Philosophy of Language (3)

Structure and meaning of spoken and written language. Topics may include: signs and meaning, ambiguity, the origin of language, ordinary usage, poetic and magical language.

71343 Aesthetics (3)

Problems concerning the interpretation and evaluation of works of literature and fine art. Readings from philosophers and from critics and historians of literature and the arts. Illustrations from the arts of different periods and genres.

71344 Philosophy of the Arts (3)

Meaning and truth in the arts; the place of the arts in human life. Readings from philosophers such as Plato, Aristotle, Plotinus, Hegel, Schopenhauer, and Nietzsche. Illustrations from the arts of different periods and genres.

71352 Existentialism (3)

Selected works of philosophers on existence and being in their historical, cultural, and spiritual context.

71353 Phenomenology (3)

Selected works on phenomenological method in their historical, cultural, and spiritual context.

71372 Political and Social Philosophy (3)

Inquiry into the meaning and justification of such basic concepts of social life as authority, equality, justice, and liberty.

71375 Philosophy of Law (3)

The nature of law and its relation to morality and other human concerns. Specific problems concerning law and liberty, justice, responsibility and punishment. Readings from classic and contemporary philosophers and from court opinions.

71381 Studies of Contemporary Philosophers (3)

Major works of selected contemporary philosophers, such as Whitehead, Russell, Wittgenstein, or Heidegger. May be repeated for credit. Prerequisite: One philosophy course, or PI.

71461 Philosophy of Natural Science (3)

Review of the elements of scientific method; examination of the role of concepts, hypotheses and laws in science, and selected topics such as cause, space and time.

71465 Philosophy of Social Science (3)

An examination of some of the basic assumptions, concepts and special problems of the social sciences, the nature and limits of their explanations and predictions, and the objectivity of their inquiries. Examples will be taken from contemporary work in anthropology, sociology, economics or social psychology.

71471 Theory of Knowledge (3)

What is knowledge and how can it be obtained? Topics may include: knowledge and belief; different kinds of knowledge in different domains; discursive and non-discursive knowledge; skepticism. Readings from philosophers past and present. Prerequisite: One philosophy course or PI.

71474 Metaphysics (3)

The nature of reality as a whole; events and things; particulars and universals; cause and effect; space and time; mind, matter, and God. One or more metaphysical systems may be studied. Prerequisite: One philosophy course or PI.

71490 Philosophy Proseminar (3)

Advanced study of some philosophical topic or text to be determined each year by the professor directing the seminar. Required of philosophy majors. Can be repeated for credit. Prerequisite: Three philosophy courses or PI.

Political Science and International Relations

Phone: (845) 257-3540

Location: Jacobsen Faculty Tower Room 814

Web address: www.newpaltz.edu/polisci_intrela

The Political Science/International Relations program at New Paltz is designed to be both academically sound and responsive to student desires for practical experience and career preparation. A wide range of courses is offered in American government, international relations, political theory, comparative politics, law and law-related fields. In addition to the regular offerings, a number of "topics" courses may be given to serve student and community interest in current domestic and international issues.

An innovative aspect of the program is a full semester internship in the New York State Legislature. In the Albany semester internship, offered in the spring semester during the legislature session, students are placed in the office of a State Senator or Assemblyman or advocacy organizations where they work full time while attending a seminar directed by a professor of the Political Science faculty. This 15-credit program, widely recognized as one of the best of its type in the state, allows New Paltz undergraduates to gain responsible experience in the real world of politics, experience that serves them well in finding employment or gaining entry to graduate or professional school after the completion of their college work.

Another experience-based program is an internship in journalism and politics. This one-semester, 15-credit program publishes the Legislative Gazette, the official weekly newspaper of the State Legislature. Graduates of this program readily find jobs in journalism in the Hudson Valley.

Interest in pre-law training, in preparation for law school admissions, and advanced graduate work in law, legal process, and judicial behavior is met with an extensive range of courses within Political Science. A pre-law advisor works with students to prepare them for law school admission.

The undergraduate major in International Relations is one of the few of its kind in New York State, reflecting New Paltz's long history of concern with international issues. While taking courses in political science, history, economics, anthropology, and geography and black studies, students work with a diverse and highly qualified faculty, virtually all of whom have lived and worked overseas. The College's library holdings and other resource materials give students the opportunity to pursue study of a rich variety of topics and concerns.

International Relations and Political Science majors regularly take advantage of the College's location near New York City, a world center for international commerce and politics and the headquarters of United Nations. In 1997 the department re-established its United Nations semester course that combines classroom study with weekly trips to the UN.

A new concentration in Political Science is that in Political Economy. A recognized sub-field in political science, economics and sociology, the Political Economy concentration gives students an opportunity to study the relationship between governmental organization and policy on the one hand and the domestic and international economy on the other. Study of Political Economy will enable students to prepare for careers in government, public administration and the private economy.

Honors

A departmental honors program allows the department to recognize student excellence. Student majors who maintain an average of B or better are eligible in their senior year for selection for the Honors Seminar (77402). Successful completion of this seminar may lead to a recommendation that the student be graduated with honors. In semesters in which the seminar is not offered, seniors may apply to do individual Honors Research (77491) that, again, could lead to a recommendation for departmental

honors.

A chapter of Pi Sigma Alpha, the national political science honor society, was established in 1979 and charter members inducted in that year. Each year, outstanding eligible undergraduates at New Paltz are invited to join the society.

Majors in Political Science

36 credits

Required Courses.....18-19 credits

- 77216 American Government and Politics (3)
- 77227 International Politics (3)
- 77229 Introduction to Comparative Politics (3)
- 77300 Scope and Methods of Political Science (3)
- 77323 Modern Political Theory (4)
- OR
- 77327 Classics of Political Thought (3)
- 774XX Senior Seminar (3)

Political Science Electives.....17-18 credits

Majors are required to complete 17-18 credits of electives. Twelve credits are to come from courses in one of the following sub-fields: American government, political theory, comparative politics, international politics or law. The other five-six credits are to be in courses from the remaining four sub-fields. Only nine credits of internship may be applied to the major.

Students must earn a grade of C- or better in courses used for the Political Science major.

International Relations

36 credits

Required Courses..... 15 credits

- 77227 International Politics (3)
- 77404 Seminar in International Relations (3)
- One of the following:*
- 07214 Cultural Anthropology (3)
- 48274 Environment and Culture (3)
- One of the following in foreign policy:*
- 77366 Contemporary American Foreign Policy (3)
- 58469 U.S. Foreign Policy Since 1900 (3)

*One of the following in international economics:**

- 33302 Comparative Economic Systems (3)
- 33401 International Trade and Finance (3)
- 33418 Economics of Developments (3)

** Or other international economics courses approved by the chair.*

Elective Courses.....21 credits

Fifteen credits by advisement, selected from among those courses accepted for credit in the International Relations major/minor program. No more than three credits are to be at the 200 level.

Six credits by advisement of courses concerned with a single world area selected from among those courses accepted for credit in the International Relations major/minor program.

Students must earn a grade of "C-" or better in courses used for the International Relations major.

Minors in Political Science

18 credits

Required Course..... 3 credits

77216 American Government and Politics (3)

Electives.....15 credits

A total of 15 credits in political science courses, of which at least 12 credits must be at the 300 level or above. Only 9 credits of internship or fieldwork may be applied to the minor.

Students must earn a grade of C- or better in courses used for the Political Science minor.

International Relations

18 credits

Required Courses..... 9 credits

77227 Introduction to International Politics (3)

One of the following:

07214 Cultural Anthropology (3)

48274 Environment and Culture (3)

One of the following:

77366 Contemporary American Foreign Policy (3)

58469 U.S. Foreign Policy Since 1900 (3)

Elective Courses..... 9 credits

By advisement selected from among those courses accepted for credit in the International Relations major/minor program. No more than three credits can be at the 200 level.

Students must earn a grade of C- or better in courses used for the International Relations minor.

Law and Politics

18 credits

Designed to introduce the student to the nature and significance of law in Western society. Required and elective courses examine (a) the role of law in America, (b) the history, organization, and dynamics of legal institutions, (c) the relationship of law to contemporary social questions, (d) legal principles governing business, commerce, and labor, and (e) law in the contemporary international system.

Required Courses..... 9 credits

77350 Introduction to Law (3)

77317 Courts and Judges (3)

One of the following courses:

77351 Constitutional Law: National Government (3)

77352 Constitutional Law: Civil Liberties (3)

Electives..... 9 credits

Three of the following courses:

- 07507 Anthropology and Law (3)
 17435 Blacks and American Law (3)
 20271 Business Law I (3)*
 20272 Business Law II (3)*
 71375 Philosophy of Law (3)
 77351 Constitutional Law: National Government (3)**
 77352 Constitutional Law: Civil Liberties (3)**
 77416 Administrative Law (3)
 77417 Judicial Process (3)
 77443 Sex Discrimination and the Law (3)
 77444 Legal Theory and Ideology (3)
 77453 International Law (3)

Up to three credits of a law-related internship taken under 77480. Any law-related course numbered 293, 393, or 493, by prior approval of the chair of the department of political science.

Students must earn a grade of C- or better in courses used for the Law and Politics minor.

** A maximum of three credits of Business Law may be credited toward the minor.*

*** The Constitutional Law course not taken as a required course may be taken as an elective.*

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

77216 American Government and Politics (4)

Structure and processes of the American system of government and politics. Basic constitutional principles, the theory and practice of representative government, and the organization and function of the political system.

77227 International Politics (4)

Policies of the great powers and smaller nations, and their relations to each other. Elements of national power and their impact on world affairs.

77229 Introduction to Comparative Politics (4)

Study of the major political systems of the world through the use of comparative theories and techniques.

77300 Scope and Methods of Political Science (3)

Fundamentals of contemporary, empirical research and analysis in political science. Prepare students to understand advanced classes in political science and develop rudimentary research skills for social science research projects. Dichotomy between the logical processes and pragmatic behavior of researchers. Prerequisite: One 200-level political science course and political science major.

77301 State Politics (3)

The organization and operation of government and politics in the American States. Fiscal and policy relationships with the national government, in the context of the federal system. Special emphasis on New York State. Prerequisite: 77216.

77302 Political Parties, Interest Groups, and Elections (3)

Political parties and interest groups as mediating institutions in American politics, with special focus on their role in nominating and electing public officials and their internal dynamics. Prerequisite: 77216.

77305 American Legislative Process (3)

Survey of American legislative systems, emphasizing Congress, the state legislatures, and the internal forces and procedures that facilitate or delay the solutions of urgent public problems. Organic political relationships with other institutions of government and within the entire Federal structure. Prerequisite: 77216.

77310 Public Management (3)

Introduction to the principles and practices of administrative organization and management in government. Prerequisite: 77216.

77316 American Public Policies (3)

Survey of American public policies, contrasting philosophies shaping evolution and evaluations of policy implementation by government. Policies include: business and labor regulation, education, affirmative action, social welfare and security, health and environmental protection. Prerequisite: 77216.

77317 The American Judiciary (3)

Federal and state courts examined from a political perspective. Federal and state court structure, methods of selection of judicial personnel, aspects of the legal profession as practiced in America that affect judicial decisions, intricacies of court procedure, and personal background characteristics relevant to judicial decisions.

77318 Local Politics (3)

The operation and interaction of cities and suburbs, counties, towns and villages. The workings of public benefit corporations, school districts and other special purpose local governments. Special emphasis on local government in New York. Prerequisite: 77216.

77323 Modern Political Theory (4)

Political ideas from the French Revolution to the present, significance of major modern political philosophies.

77324 International Relations Theory (3)

A theoretical examination of the main ideas of several different competing schools of thought within the field of international relations. Prerequisite: 77300 for Political Science majors, 77227 for International Relation majors, plus 9 credits in the major.

77327 Classics of Political Thought (4)

Classical theory from the pre-Socratic period to that of Machiavelli and the rise of the modern nation-state. Concepts such as authority, legitimacy, law, justice, constitution, and public good.

77328 Communism, Fascism, Democracy (3)

Examination of the major principles of the ideologies of communism, fascism, and democracy with respect to such issues as: the nature of man, the nature of the good society, the role of government in society, the role and duties of the individual in society.

77331 American Political Thought (3)

Origin, development, and nature of theories that have significantly influenced the development of American politics.

77339 Model United Nations (3)

Preparation for participation in Model United Nations simulations around the country. Individual research on the United Nations and cooperative efforts to represent an assigned nation and its foreign policy; to serve on UN committees, such as political affairs, international economics, legal issues, human rights and disarmament. Prerequisite: 77227 and PI.

7342 Politics of Developing Areas (3)

Comparative study of the processes, institutions, and issues of political systems in the developing societies of Africa, Middle East, Asia, and Latin America. Overview course to prepare students for more intensive studies dealing with specific areas.

77343 Political Economy of Multinational Corporations (3)

A study of multinational corporations with respect to their rise and spread, objectives, power, global strategies (marketing, production, financial, management, etc.), organizational structure, and economic-political impact, and recent national-international efforts to make them more responsive to economic development and just distribution of wealth.

77344 Politics of International Economic Organizations (3)

The origins, objectives, membership, organizational structure, rules, accomplishments, politics, relations with UN agencies, recent trends and problems, and future prospects of international financial, trade and energy organizations (such as IMF, World Bank, GATT, UNCTAD, OPEC). Prerequisite: 77227 or 33206.

77345 War and International Politics (3)

Study of forms, causes and consequences of armed conflict in the international system. Topics to be considered include: military power as a tool of foreign policy, inter-state warfare -- causes and resolution, just war doctrines, civil wars, and international politics, terrorism. Prerequisite: 77227.

77346 International Political Economy (3)

The course analyzes the political dimensions of international economic relations. Special attention is given to the historical evolution of international political economy, the contending theoretical perspectives, as well as the relationship between governments and business corporations.

77350 Introduction to Law (3)

The legal system and the role of law, systematic examination of the various branches of the law and their historical development; the effects of the law on human activity and the interrelationships of persons.

77351 Constitutional Law: National Government (3)

Analysis of constitutional aspects of the powers of the President, Congress, and the Courts; foreign

relations and the war power; federal-state relations; regulation of the national commerce; nationality; elections.

77352 Constitutional Law: Civil Liberties (3)

Analysis of constitutional protections of personal rights and liberties, such as: desegregation, protection against sex discrimination, freedom of expression, privacy, fair trial.

77354 European Politics and Government (3)

Comparative study of government and politics under the constitutional systems of Western Europe. Prerequisite: 77216 or 77226.

77355 Criminal Law (3)

Statutory basis, constitutional context, and court decisions affecting criminal law, with special focus on New York. Particular attention to legal limits to arrest, search, and interrogation procedures; pre-trial hearings; discovery procedures; and role of defense counsel.

77356 Sex Discrimination and the Law (3)

Study of the legal under-pinnings of sex discrimination in the United States through case law and statutes. Coverage of such topics as employment, credit, rape, the ERA and discrimination on the basis of sexual preference.

77357 International Law (3)

Role of law in international relations. Development, interpretation, and application of legal rules, and legal aspects of major contemporary problems.

77364 Nationalism in World Politics (3)

The primary objective of this course is to examine the nature of nationalism in world politics: its political basis, ideological composition, security implications, and future.

77365 International Politics of East Asia (3)

Twentieth-century foreign policies of and international relations among the U.S., China, Soviet Union, Japan, and Korea, with special emphasis on foreign policy leadership and institutional processes of these countries.

77366 Contemporary American Foreign Policy (3)

Important issues and problems of contemporary American foreign policy and the alternative proposals for action.

77368 Defense Issues in American Foreign Policy (3)

Major issues facing the United States in formulating and implementing military policy in the nuclear age. Half the course will focus on nuclear weapons in U.S. foreign policy. The remainder will be on the role of conventional military power in U.S. foreign policy. Prerequisite: 77227.

77369 Governments and Politics of China and Japan (3)

A study of the contemporary political institutions (governments, parties, interest groups), policymaking processes and public policies of two of the most important world powers, and a brief comparison with the U.S. Prerequisite: One 200-level Political Science course or PI.

77371 Latin American Politics (3)

Political dynamics, structures and processes in Latin America. The course examines history and political economy of regions, social structures, coups and military states, revolutionary and nationalist movements, impact of international factors, and transitions to democracy.

77372 International Relations of the Middle East (3)

Foundations of international relations in the Middle East in terms of concepts and realities of international politics. Interstate relations in the region as well as their external relations with the superpowers.

77373 Russian Politics: Past and Present (3)

This course serves as an introduction to politics of the Soviet Union and the Russian Federation. It has two main objectives: provide students with the background necessary to understand this region and place current changes in a comparative framework.

77374 Politics of the European Union (3)

The course details the essential structures, actors, and processes of the European Union. Special attention is given to its historical background and institutional structure, as well as its foreign, economic, and social policies.

77384 State Politics Semester (3)

Full-time internship in Albany with state legislator, administrative agency, or political party leader to carry out tasks of internship supervisor. Academic requirements include seminar participation, weekly papers, daily journal, and related book reviews. Prerequisite: PI and 77216.

77401 Seminar in American Government & Politics (3)

Study of major issues in American government and politics. Students will present a major research paper to the seminar by the end of the course. Prerequisite: 77216 and 77300.

77403 Seminar in Comparative Politics (3)

Study of the major issues in Comparative Politics. Students will present a major research paper to the seminar by the end of the course. Prerequisite: 77229 and 77300.

77404 Seminar in International Relations (3)

Study of the major contributions of classical and contemporary thinkers in the field of International Relations. Students will present a major research paper to the seminar by the end of the course. Prerequisite: 77227 and 77300.

77405 Seminar in Political Theory (3)

Examination of most significant issues in political theory. Focus on several of the major figures associated with the canon of classic texts and modern writers. Students will present a major research paper on the seminar by the end of the course. Prerequisite: 77327 and 77300.

77406 Seminar in Law (3)

Advanced seminar in law. The purpose is to strengthen and expand the student's knowledge of law, the legal system and the judicial process in order to investigate critically and timely issues at the intersection of law and politics. A major research paper is required. Prerequisite: 77216 and 77300.

77417 Judicial Process (3)

Behavioral analysis of factors influencing court decisions and on-the-bench behavior of judges. Emphasis on such factors as personal background characteristics and intra-court dynamics. Prerequisite: One law course.

77480 Government Internship (9)

Provides students with an integrated academic work experience in a government or administrative agency for a semester. Possible positions include state legislature, United States Congress, police agencies, planning units, newspapers, and radio stations. Students work a minimum of 40 hours per week in close cooperation with political leaders and officials and participate in a weekly academic seminar. Interns are required to do a large amount of assigned reading, maintain a comprehensive journal, and submit weekly reaction papers. Instructors hold frequent individual conversations with interns as well as the agency supervisors. Students are allowed to register for no more than 15 academic credits while participating in the program. Prerequisite: Personal interview and PI.

77481, 77482 Government Fieldwork I, II (3 each)

Taken in conjunction with 77480. Prerequisite: PC.

77485 Legislative Gazette (6)

Full-time internship in Albany producing the Legislative Gazette. Participants must be enrolled simultaneously in Journalism Fieldwork courses, as determined by advisement.

77491 Honors Research (3)

Research in primary sources under the direction of a faculty member. Offered only in semesters in which the Honors Seminar is not scheduled. Recommendation of faculty member and approval of departmental honors committee for honors in political science. Prerequisite: PI and PC.

Pre-Health Professional Programs**Pre-Medical, Pre-Dental and Pre-Veterinary Medical Programs**

The State University of New York at New Paltz offers courses required for students planning careers in medicine, dentistry or veterinary medicine. These same requirements will also provide the needed courses for post-graduate training in osteopathic medicine (see Cooperative Program in Osteopathic Medicine with New York College of Osteopathic Medicine), Podiatry, Physician Assistant, Optometry (see Cooperative Program in Optometry with SUNY College of Optometry) and Chiropractic. All of these post-graduate health programs require completion of an undergraduate major in any discipline plus the following two-semester laboratory courses: General Biology; General Chemistry; Organic Chemistry; Physics. In addition to these curriculum requirements, most of these post-graduate health science programs require that students pass a national normative examination such as the MCAT. These pre-health profession programs are open to any student; there is no separate admission. Since these programs are lengthy it is advisable to contact the Pre-Health Professions Advisor, (845) 257-3770, as soon as possible after a decision to attend SUNY at New Paltz has been made.

In addition to these pre-health programs, SUNY at New Paltz has established cooperative programs with New York College of Osteopathic Medicine and SUNY College of Optometry that require special applications.

Cooperative 3/4 B.A.(B.S.)/D.O. program with New York College of Osteopathic Medicine (NYCOM):

The program requires admission both to SUNY at New Paltz and NYCOM. Students accepted into the program are assured admission to the New York College of Osteopathic Medicine provided that they maintain a minimum 3.30 grade point average and provide adequate scores on the Medical College Admission Test (MCAT). Students must also complete the regular pre-medical science courses within the first two years. Matriculation at NYCOM will occur in the fourth post-high school year. Students in the program will receive their B.A. or B.S. after one year in medical school and their D.O. after completing the normal 4-year medical school curriculum. The regular pre-medical course requirements, in addition to major program requirements, GE requirements, and Freshman English, include two semesters each of General Biology, General Chemistry, Organic Chemistry, Calculus and Physics as well as a course in statistics. The program is designed for students entering SUNY New Paltz from high school. However, transfer into the program within the freshman year is possible if openings exist and applicants meet the continuing requirements.

Cooperative 3/4 B.A.(B.S.)/O.D. program with SUNY College of Optometry (SUNYCO):

The program requires admission both to SUNY at New Paltz and SUNYCO. Students accepted into the program will be admitted to SUNY College of Optometry after completion of a normal 3-year program with a major in Biology provided they maintain a 3.00 grade point average (B); pass the national Optometry Admission Test (OAT); and pass General Psychology and Statistics as undergraduates.

2/3 Articulation Program with SUNY Upstate Health Science Center, Syracuse, Physical Therapy Program:

SUNY at New Paltz has established a Pre-Physical Therapy program with SUNY Upstate Health Science Center in Syracuse. The program requires two years of undergraduate study at SUNY New Paltz including: 2 semesters each of General Biology, General Chemistry, and either General Physics (calculus co-requisite) or Fundamental Physics, plus 1 semester each of General Psychology, Psychology of Infants and Children, and a Psychology elective course. Volunteer or work experience with a licensed Physical Therapist is also required. Students who complete the Pre-Physical Therapy program in their second year can apply to SUNY Upstate Health Science Center during their third semester at SUNY New Paltz. This transfer application is competitive. Maintenance of a very high grade point average in the required lower-division courses at SUNY New Paltz will be necessary. Students who complete the Pre-Physical Therapy program can also apply to other Physical Therapy programs throughout the United States.

For further information on any of these Pre-Health Professional Programs, contact the Pre-Health Professions Advisor at (845) 257-3770. For the special application materials for the cooperative programs with NYCOM or with SUNYCO, contact the Admissions Office, (845) 257-3200.

Psychology

Phone: (845) 257-3470

Location: Jacobsen Faculty Tower Room 314

Web address: www.newpaltz.edu/psychology

The psychology program at New Paltz has been designed to reflect the varying needs and interests of undergraduate psychology majors. Since psychology is an empirically based science, it is desirable for

psychology majors to have the skills to both interpret and generate new information. To that end, courses in statistics and research methodology are required. The remaining courses for completion of a major in psychology are drawn from three categories, with a minimum of two courses from the second and third categories. The category II includes courses from the clinical-child-social areas of psychology, while the category III encompasses the general-experimental areas. The category IV contains more specialized courses. This flexibility has been built into the program so that students can pursue a line of study that reflects their interests and vocational goals. The interests of students generally fall into one of three categories: (1) those who want a general background in psychology, but don't intend to seek employment in the field of psychology; (2) those who want to apply some principles and techniques of psychology in an employment situation; and (3) those who want to pursue a career in psychology with a graduate degree. Students majoring in psychology are advised to acquire a broad range of training in the Liberal Arts. Elective courses in anthropology, biology, computer science, history, philosophy, political science, and sociology are strongly recommended.

Students must have a 2.50 cumulative grade point average to declare a major in Psychology. Students must also have completed General Psychology.

Majors

In order to meet the varied needs and interests of our many majors, there are two options for completing the major requirements. Both options are equivalent in terms of course credits, lab experiences, and writing-intensive requirements. Students are encouraged to consult with their advisors in deciding which option is best for them.

Psychology

32 credits

Category I

Required Courses.....11 credits

80272 General Psychology (3)

80275 Psychological Statistics (4)

Choose one of the following options:

A) 80301 Experimental Psychology (4)*

OR

B)** 80311 Research Methods (3)

80312 Research Methods Lab (1)

* Writing Intensive.

** Students choosing Option IB (Research Methods plus lab) are required to take a Senior Seminar as one of these three courses to meet the writing intensive requirement in psychology.

Category II

Choose two of the following:

80273 Psychology of Adjustment (3)

80304 Industrial Psychology (3)

80306 Social Psychology (3)

80343 Psychology of Infancy and Childhood(3)

80344 Psychology of Adolescence and Adulthood (3)

80412 Abnormal Psychology (3)

80440 Personality and Psychotherapy (3)

80458 Introduction to Psychological Testing (3)

Category III

Choose two of the following:

- 80302 History and Systems of Psychology (3)
- 80303 Introduction to Psychology of Learning (3)
- 80305 Psychology of Perception (3)
- 80308 Psychology of Motivation (3)
- 80310 Psychology of Memory and Thinking (3)
- 80402 Psychology of Language (3)
- 80436 Physiological Psychology (3)

Choose three additional courses to be selected from among the courses listed above or from the following:

Category IV

- 80315 Basics of Organizational Psychology (3)
- 80318 Group Behavior (3)
- 80320 Behavior Modification(3)
- 80330 Crisis Intervention (3)
- 80350 Psychology of Women (3)
- 80380 Practicum with Emotionally Disturbed Children (6)*
- 80403 Health Psychology (3)
- 80433 Psychoanalysis, Behaviorism, and Humanism (3)
- 80438 Clinical Psychology (3)
- 80442 Psychology of Social Problems (3)
- 80493 Selected Topics (3)
- 80494 Fieldwork in Psychology (3)
- 80495 Independent Study (3)
- 80498 Senior Seminar (3)**

* Only three credits can be applied to the major.

** Writing Intensive.

Psychology Concentration in Psychobiology

55-66 credits

Many graduate programs in psychology regard a broad undergraduate background in natural, physical, and social sciences as the best preparation for graduate study. For those students interested in pursuing graduate training in physiological psychology, psychobiology, or animal behavior, or in preparing for professional school while combining an interest in these areas, a concentration in psychobiology is available.

Required Psychology Courses.....32 credits

Completion of Major in Psychology with at least 3 of the following:

- 80303 Introduction to Psychology of Learning (3)
- 80305 Psychology of Perception (3)
- 80308 Psychology of Motivation (3)
- 80343 Psychology of Infancy and Childhood (3)
- 80436 Physiological Psychology (3)
- 80493 Selected topics (3)
(In consultation with psychobiology advisor)

Required Biology Courses.....11-16 credits

- 15205 General Biology I (4)
- 15206 General Biology II (4)
- 15210 Introductory Biology (4)
(May substitute for General Biology I and II)
- 15320 Genetics (4)
- 154XX (400-level course to be selected in consultation with psychobiology advisor) (3-4)

Required Research..... 3-6 credits

A total of 3-6 credits chosen from the following:

- 80495 Independent Study in Psychology (2-4)
- 80558 Seminar in Contemporary Research (3)
- 15490 Senior Seminar in Biology (3)

Electives..... 9-12 credits

A total of 9-12 credits in anthropology, biology, chemistry or physics chosen by advisement.

Psychology

Concentration in Industrial and Organizational Psychology 53-56 credits

CATEGORY I

Required Psychology Courses.....32-35 credits

All of the following:

- 80272 General Psychology (3)
- 80275 Psychological Statistics (4)
- 80302 History and Systems of Psychology (3)
- 80304 Industrial Psychology (3)
- 80315 Basics of Organizational Psychology (3)
- 80458 Introduction to Psychological Testing (3)
- 80495 Independent Study (1-3)*

Choose one of the following options(4-7 credits):

Option A

- 80301 Experimental Psychology (4)

Option B

- 80311 Research Methods (3)

AND

- 80312 Research Methods Lab (1)

PLUS

- 80498 Senior Seminar (3)**

Two of the following (6 credits):

- 80303 Introduction to the Psychology of Learning (3)
- 80306 Social Psychology (3)
- 80308 Psychology of Motivation (3)
- 80310 Psychology of Memory and Thinking (3)

CATEGORY II

Other Required Courses.....12 credits

One of the following (Philosophy):

71110 Reason and Argument (3)

71201 Logic (3)

Three of the following (Business Administration):

20250 Principles of Management (3)

20312 Operations Management (3)***

20322 Organization Theory (3)

20325 Marketing (3)

20326 Consumer Behavior (3)****

20345 Human Resources Management (3)

20355 Motivation and Work Behavior (3)*****

CATEGORY III

Electives..... 9 credits

A total of 9 credits, which may be courses taken from Category I or II beyond the requirement, or other relevant courses taken by advisement.

** Students must complete a total of three credits of independent study (in any combination).*

*** Students choosing Option B must take Senior Seminar to meet the writing intensive requirement in psychology.*

**** Prerequisite: C- or better in 20309 (Statistics for Business and Economics I).*

***** Prerequisite: C- or better in 20325 (Marketing).*

****** Prerequisite: C- or better in 20250 (Principles of Management).*

Minors in Psychology

18 credits

Required Courses..... 9 credits

80272 General Psychology (3)

One course selected from Category II (3)

One course selected from Category III (3)

Elective Courses..... 9 credits

Psychology Industrial and Organizational Psychology

18 credits

Required Courses..... 9 credits

80272 General Psychology (3)

80304 Industrial Psychology (3)

80315 Basics of Organizational Psychology (3)*

Required Elective Courses in Psychology..... 9 credits

Select three of the following:

80275 Psychological Statistics (4)

80301 Experimental Psychology (4)**

80302 History and Systems of Psychology (3)

80303 Introduction to Psychology of Learning (3)

80306 Social Psychology (3)

80308 Psychology of Motivation (3)

80310 Psychology of Memory and Thinking (3)

- 80311 Research Methods (3)
- 80320 Behavior Modification (3)
- 80458 Psychological Testing (3)
- 80493 Selected Topics in Psychology (3)***
- 80498 Senior Seminar (3)***

* Students cannot receive credit for both Organizational Behavior (20321) and Basics of Organizational Psychology (80315). Students who have received credit for Organizational Behavior (20321) must substitute an additional elective course under advisement.

** Students cannot receive credit toward the minor for both Experimental Psychology (80301) and Research Methods (80311).

*** By advisement.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

80272 General Psychology (3)

Introduction to psychology. Learning, motivation, personality, intelligence, testing, abnormal behavior, and psychotherapy.

80273 Psychology of Adjustment (3)

The adjustment processes through childhood, adolescence, and aging. Topics include: motivation, emotion, learning, marriage, divorce, group behavior, stress, illness, and rehabilitation.

80275 Psychological Statistics (4)

Introduction to descriptive and inferential statistical procedures commonly used in psychological research. Includes correlations, interval estimation, hypothesis testing with z and t tests. Prerequisite: C- in 64050 or MPL 3.

80301 Experimental Psychology (4)

Experimental techniques in psychology and major areas of current research. Laboratory section for experimental assignments. Prerequisite: Psychology major and 80272 and 80275.

80302 History and Systems in Psychology (3)

Philosophies and approaches that have led to contemporary psychology. Major contributors such as James, Freud, Watson, and Skinner, and their psychological approaches. Prerequisite: Psychology major and 80272.

80303 Introduction to the Psychology of Learning (3)

Experimental findings in and contemporary theories of learning. Prerequisite: Psychology major and 80272.

80304 Industrial Psychology (3)

Human relations in management, psychological sources of efficiency, and motivation of consumer and work behavior. Prerequisite: 80272.

80305 Psychology of Perception (3)

Perceptual processes of form, color, movement, space, localization, and constancy. The psychology of consciousness. Prerequisite: Psychology major and 80272 or PI.

80306 Social Psychology (3)

Theories and research regarding social behaviors such as conformity, altruism, aggression, attitude-formation, and discrimination. Prerequisite: 80272 or 87100.

80308 Psychology of Motivation (3)

Identification of basic concepts, theories, and experimental findings of the psychology of motivation. Prerequisite: Psychology major and 80272.

80310 Psychology of Memory and Thinking (3)

Theories and research regarding the mental processes of acquiring and retaining information for later retrieval, and the manipulation of that information for complex skills such as reasoning, decision-making, and problem solving. Prerequisite: 80272.

80311 Research Methods in Psychology (3)

Research methodology in psychology: scientific reasoning and critical thinking, correlational and experimental research approaches, including control, designs, statistical analyses, and hypothesis testing. To be taken in conjunction with 80312. Prerequisite: 80272, 80275, and Pre-K-6 Psychology major. Co-requisite: 80312.

80312 Research Methods Laboratory (1)

Laboratory experience in conducting empirical studies, including data collection and analysis and exercises in various topics in research methods. To be taken in conjunction with 80311. Prerequisite: 80272, 80275, and declared Psychology major. Co-requisite: 80311.

80315 Basics of Organizational Psychology (3)

Introduction to organizational behavior and management, emphasizing psychological and social-psychological theories and findings. Research methods, learning, motivation, stress, communication, leadership, and other topics are discussed, both in general and in relation to work settings. Students may not take both this course and 20321 for credit. Prerequisite: 80272.

80318 Group Behavior (3)

Participation in face-to-face small groups focusing on the group's own behavior. Emphasis is on an understanding of leadership, power, and authority as primary elements of social behavior. Each student is expected to participate actively in group sessions. Available as an alternative to traditional educational approaches. Because of this approach some students may experience stress.

80320 Behavior Modification: Principles and Procedures (3)

Principles of operant conditioning and application of these principles to improve behavior in the schools, home, institution, work setting and personal self-improvement. Practical procedures of changing behavior in the natural environment. Prerequisite: Psychology major and 80272.

80330 Crisis Intervention (3)

Basic counseling and crisis intervention skills using a didactic/experiential approach under professional psychological supervision. Theory of intervention in suicide, substance abuse, and developmental crises. Role play practice. Prerequisite: PI.

80343 Psychology of Infancy and Childhood (3)

Theories and research on social, emotional, perceptual, and cognitive development. Implications of this information for child-rearing, education, and society. Prerequisite: 80272.

80344 Psychology of Adolescence and Adulthood (3)

Emphasis on the issues, trends, and information pertinent to development from adolescence through death. Particular attention to problems of the adolescent, the aged, and the family in today's society. Prerequisite: 80272.

80350 Psychology of Women (3)

The psychology of women as conceptualized within traditional psychological as well as feminist theory. A survey of findings on women from various fields: personality, cognition, physiological, social, developmental and abnormal psychology. Prerequisite: 80272.

80380 Practicum with Emotionally Disturbed Children (6)

Students spend one month as full-time counselors in residence at Ramapo-Anchorage Camp working with emotionally disturbed children. An intensive theoretical component covers childhood psychopathology, evaluation, and treatment as well as supervised practical experience. Prerequisite: PI.

80402 Psychology of Language (3)

Study of language behavior and its relation to learning and thought processes. Attention to language acquisition and psychological phenomena of speech and speech perception. Social aspects of language and non-verbal communication. Prerequisite: Psychology major and 80272 or PI.

80403 Health Psychology (3)

An examination of how biological, psychological, and social factors interact to influence individual behavior related to promoting health, preventing illness, and coping with illness, pain, and stress. Research techniques and ethical dilemmas in health psychology. Students will keep an Intellectual Journal. Prerequisite: 80272 and at least one additional Psychology course.

80412 Abnormal Psychology (3)

Symptoms, causes, and therapies of anxiety disorders, psychoses, and personality disturbances. Prerequisite: 80272.

80433 Psychoanalysis, Behaviorism, and Humanism (3)

Critical analyses of three major approaches to the study of human behavior; special emphasis on comparison of the ideas of Freud, B.F. Skinner, and Carl Rogers. Prerequisite: 80272 and two 300-level psychology courses.

80436 Physiological Psychology (3)

The functioning of the brain and its role in learning, eating, drinking, aggression, and behavioral abnormalities. Prerequisite: Psychology major, 80272 and two psychology courses, or PI.

80438 Clinical Psychology (3)

Examination of major issues in clinical psychology today, focusing particularly upon current psychotherapies, diagnosis, ethical, legal, and social concerns raised by mental health services. Prerequisite: 80272 or PI.

80440 Personality and Psychotherapy (3)

Review of contemporary theories and methods of psychotherapy: Freud, Jung, the Neo-Freudians, Rogers, Wolpe, Bowen, and others. Prerequisite: 80272.

80442 Psychological Study of Social Problems (3)

Study of one or more current social problems, such as violence, poverty, education, drug use, war, through an examination of psychological and social-psychological data and theory. Prerequisite: 80272, one 300-level psychology course.

80458 Introduction to Psychological Testing (3)

Uses and limitations of present psychological techniques for assessing ability, achievement, intelligence, personality, and abnormality. Objective and projective personality tests. Prerequisite: 80272 and 80275

80498 Senior Seminar in Psychology (3)

Advanced study in a specific area of research, theory, or practice. Writing intensive. Prerequisite: 80301 or 80311 and 80312.

Religious Studies

The interdisciplinary minor in religious studies gives students the opportunity to engage in the study of religion from the perspective of a number of different disciplines, including anthropology, philosophy, history, literature and sociology. Religions of the World is an introductory survey of the principal world religions. Courses in Group I concern religion in general, while those in Group II examine particular religious traditions, texts, practices, and other phenomena.

The coordinator may in individual cases allow credit for appropriate cognate courses or independent study.

Minor in Religious Studies

18 credits

Required Course..... 3 credits

71270 Religions of the World (3)

Two of the Courses in Group I..... 6 credits

Group I

- 07403 Religion and Culture (3)
- 71320 God, World and Soul (3)
- 71321 Religion, Ethics and Society (3)
- 87304 Sociology of Religion (3)

Electives..... 9 credits

These may be selected from Group I (above), Group II, or from selected topics courses which are listed in the Religious Studies section of the Schedule of Classes.

Group II

- 11340 The Arts of Early China (3)
- 11342 The Arts of Japan (3)
- 11360 Art of Asia I (3)

- 11362 Northern European Painting from Van Eyck to Bruegel (3)
- 11363 Early Medieval Art (3)
- 11364 Later Medieval Art: Gothic (3)
- 11387 Art of the Islamic World (3)
- 11410 Art of the Byzantine Empire (3)
- 41355 The Bible (3)
- 56401 Jewish Philosophy (3)
- 58205 The Jewish Experience (3)
- 58207 Medieval Europe (3)
- 58243 History of the Middle East Since 570 (3)
- 58313 Women in Medieval Europe (3)
- 58336 Religions of China and Japan (3)
- 58349 Renaissance and Reformation (3)
- 58369 Ancient Israel (3)
- 58370 Bible: Myth and History (3)
- 58371 World Jewish History I (3)
- 58382 Roman Catholics in the United States (3)
- 58383 Religion in the United States (3)
- 71251 Indian Philosophy (3)
- 71252 Chinese and Japanese Philosophy (3)
- 71311 Medieval and Renaissance Philosophy (3)

Sociology

Phone: (845) 257-3505

Location: Jacobsen Faculty Tower Room 516

Web address: www.newpaltz.edu/sociology

The following programs and concentrations focus on the analysis of human beings and their relationship to society. Sociology explores a range of social phenomena from individual interactions to broad social and cultural forces in the United States and throughout the world. Students will be trained in the methods of sociological research and will gain an understanding of the underlying theoretical perspectives utilized in the discipline. The Sociology Department offers a variety of courses in the following areas: Social welfare, social inequality, social change, social institutions and socialization through the life course.

Majors in Sociology

33 credits

Required Courses.....15 credits

- 87100 Introduction to Sociology (3)
- 87220 Social Inequality (3)
- 87303 Sociological Theory (3)
- 87306 Research Methods (3)
- 87307 Social Statistics (3)

Electives.....18 credits

Each major candidate is expected to complete, by advisement, 6 additional courses in sociology. A

student also may apply to the major a total of 3 independent study credits.

Sociology Concentration in Human Services

59-60 credits

A special program designed for students who plan to work directly (in a non-medical capacity) with children, adolescents, and adults in human service agencies, such as children’s homes, runaway youth and domestic violence shelters, day treatment facilities, and community centers. The program also prepares students for graduate study in related human services fields, such as social work, special education, humanistic education, and counseling.

Students interested in the Concentration in Human Services must take 87350, Introduction to Human Services, prior to or during the first semester of their third year of study before they can apply to the CHS. The CHS also is suitable as a transfer program for students coming from the surrounding community colleges with which SUNY-New Paltz has established articulation agreements.

Required Courses.....15 credits

- 87100 Introduction to Sociology (3)
- 87220 Social Inequality (3)
- 87303 Sociological Theory (3)
- 87306 Research Methods (3)
- 87350 Introduction to Human Services (3)

Electives.....12 credits

Each major candidate is expected to complete, by advisement, 4 additional courses in sociology.

Concentration Core..... 9 credits

Each major candidate is expected to complete 3 courses in direct care practice, taken consecutively.

Field Work..... 9 credits

Each major candidate is expected to complete 3 courses in field work, taken in conjunction with the three courses in direct care practice.

Cognates..... 9 credits

Each major candidate is expected to complete, by advisement, 3 courses in disciplines other than sociology that relate to the theory and practice of human services work.

Art and Recreation Skills.....5-6 credits

Each major candidate is expected to complete, by advisement, 2 courses in art and recreational skills.

Sociology Concentration in Criminology

42 credits

A program designed for students with a special interest in crime related issues or who plan to pursue a career within the criminal justice system.

Required Courses.....21 credits

- 87100 Introduction to Sociology (3)
- 87220 Social Inequality (3)
- 87250 Crime and Society (3)
- 87303 Sociological Theory (3)
- 87306 Research Methods (3)

- 87307 Social Statistics (3)
- 87332 Criminology (3)

Electives.....15 credits

Students must take 6 credits of criminology electives and 9 credits of electives within sociology (87 prefix), but which are not included among the criminology electives.

Criminology Electives

- 87305 Juvenile Delinquency (3)
- 87333 Deviant Behavior (3)
- 87376 Social Problems (3)
- 87409 Law and Social Issues (3)
- 87425 Drugs in American Society (3)
- 87432 Social Policy (3)
- 87452 Seminar in Criminal Behavior (3)

Cognates..... 6 credits

Students are required to take 6 credits of classes in disciplines other than sociology that relate to crime or the criminal justice system. A list of allowable cognates is available in the Sociology Department.

Minors in Sociology

18 credits

Required Courses..... 9 credits

Three of the following:

- 87100 Introduction to Sociology (3)
- 87220 Social Inequality (3)
- 87303 Sociological Theory (3)
- 87306 Research Methods (3)

Electives..... 9 credits

Three additional courses within the Department of Sociology.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, and independent study courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

87100 Introduction to Sociology (3)

Analysis of social structures and processes in settings ranging from small informal groups to formal organizations and committees to stratification and kinship systems to total societies. Emphasis on applications of major sociological principles and concepts in selected settings.

87190 Social Issues and College Life (3)

(Not for departmental credit.) The purpose of course work is to enhance the academic success of entering students. Academic, social and psychological factors that affect success in college are discussed

through student-to-faculty and student-to-student involvement, papers, case studies, and experiential learning in the classroom and residence halls. Prerequisite: Freshman or transfer student status only.

87201 Contemporary Social Issues (3)

The application of sociological perspectives to the study of contemporary social issues. Students will be shown how each specific issue and problem discussed relates to the existence, concentration, and use of power.

87220 Social Inequality (3)

Theoretical approaches to the study of social inequality, such as the distribution of wealth, privilege, and power in the United States and the impact on individual life chances and institutional arrangements. Prerequisite: 87100.

87250 Crime and Society (3)

Introduction to the sociological examination of issues related to crime, criminal law, and the criminal justice system. Prerequisite: 87100.

87302 Contemporary Sociological Theory (3)

An exploration of recent theoretical approaches to understanding the social world. Prerequisite: 87100.

87303 Sociological Theory (3)

Classical and contemporary theories of society are analyzed, with emphasis on critical analysis in historical perspective. The major themes of sociological thought will be examined. Prerequisite: 87100.

87304 Sociology of Religion (3)

Analysis of the social and intellectual foundations of the major religions of the world. Study of religious organizations, beliefs, behaviors, and ideologies. Prerequisite: 87100.

87305 Juvenile Delinquency (3)

Sociocultural basis of juvenile delinquency and theories of delinquent behavior. Prerequisite: 87100.

87306 Research Methods (3)

Introduction to data collection and sociological analysis. Practical methods for analyzing qualitative and quantitative data and completion of small-scale research projects. Prerequisite: 87100.

87307 Social Statistics (3)

Statistical analysis of sociological data with computer applications. Prerequisite: 87306.

87308 Medical Sociology (3)

Social and cultural aspects of health and illness. Prerequisite: 87100.

87309 Population and Society (3)

Population trends and their social implications. Analysis of mortality, fertility, migration, population characteristics, and distribution problems and policies. Prerequisite: 87100.

87310 Comparative Political Economy (3)

Critical examination and comparisons of different forms and mixtures of capitalist, socialist, and communist social economic, and political systems. Prerequisite: 87100.

87311 News Media and Public Opinion (3)

Role and formation of public opinion in modern societies; in particular, the effect of the news media -- print and broadcast -- on the shaping of political attitudes and behavior. Prerequisite: 87100.

87315 Race and Ethnicity (3)

Sociological perspectives on racial and ethnic inequality in U.S. society will be examined. Prerequisite: 87100.

87316 Sociology of War and Conflict (3)

The roots of national and international conflicts examined from both historical and sociological perspectives. Prerequisite: 87100.

87317 Environmental Sociology (3)

Society's relation to the natural environment, including the impact of economic and technological development and the political response to environmental degradation. Prerequisite: 87100.

87320 Social Structure and the Individual (3)

Reciprocal influences between the individual and society with emphasis on social-cultural factors. Prerequisite: 87100.

87323 Death in American Society (3)

Examination of dying and death as social phenomena. Perspectives on death, personal fears about dying and death, interaction with the dying, care of the dying, children and death, grief, bereavement, funerals, and post-death problems. Prerequisite: 87100.

87325 The American Left (3)

A history and analysis of the American New Left; topics include the civil rights and black liberation struggles, the student and women's movements, the counterculture, and the anti-Vietnam War protests. Prerequisite: 87100.

87328 Political Sociology (3)

Social conditions influencing political behavior; political structure and dynamics of complex industrial society; mass movement and the conflict of ideologies; totalitarianism and democracy in modern society. Prerequisite: 87100.

87332 Criminology (3)

Social-cultural bases of crime and criminal behavior. Prerequisite: 87100.

87333 Deviant Behavior (3)

The nature of deviance is examined and considered as a socially constructed concept. Different theoretical perspectives on the causes of deviant behavior are critically analyzed. Prerequisite: 87100.

87336 Social Movements (3)

Analysis of ideology, organization, and strategy of mass collective action in the pursuit of political and social change. Prerequisite: 87100.

87337 Social Change (3)

The forces that produce significant changes in social structures and cultural patterns, including how individuals may promote social change. Prerequisite: 87100.

87340 Poverty and Society (3)

Historical perspective of social attitudes towards poverty, current explanations of poverty in the United States, and evaluation of strategies for dealing with poverty and unemployment. Prerequisite: 87100.

87345 Cities and Suburbs (3)

The political economy of urban and suburban development. Prerequisite: 87100.

87350 Introduction to Human Services (3)

Historical and contemporary influences in human services including European Social Pedagogy. Exploration of generalist practice with individuals, families, groups, and communities. Development of practice skills based on the ecological person-in-environment perspective. Prerequisite: Junior standing or PI.

87360 Sociology of Women (3)

Sociological perspectives, along with cross-cultural and historical material, used to develop a broad framework for analyzing the position of women in contemporary society. Prerequisite: 87100 or 94220.

87361 Images of Poverty in Film (3)

An examination of how cinema creates and perpetuates class, gender, and racial stereotypes in U.S. society and how it impacts impoverished individuals. Prerequisite: 87100.

87362 Race, Class, and Gender (3)

The socio-historical factors that have structured the experiences of specific disenfranchised groups with a focus on the role that social institutions have played in constructing and perpetuating race, class, and gender inequality. Prerequisite: 87100.

87370 Sociology of the Family (3)

An analysis of changing family forms and major trends affecting U.S. families. Prerequisite: 87100.

87371 Sociology of Aging (3)

Social issues of aging in contemporary society. Prerequisite: 87100.

87376 Social Problems (3)

A critical examination of major social problems, such as poverty, inequality, crime, violence, drugs, and pollution, and the social structural factors that produce them. Prerequisite: 87100.

87379 Sociology of Interpersonal Relationships (3)

Analysis of the sociological origin of beliefs, behaviors, and emotions. An exploration of theoretical perspectives of social psychology including symbolic interactionism and role theory. Prerequisite: 87100.

87380 Social and Economic Development (3)

Study of socio-economic change in developed and developing societies. Prerequisite: 87100.

87385 Education and Society (3)

Analyzes social forces and processes influencing education in the United States. Prerequisite: 87100.

87407 Organizations and Work (3)

Social organization of the work place, the management of workers, and industrialism in contemporary societies. Prerequisite: 87100.

87409 Law and Social Issues (3)

Social context of law, its uses to uphold and also to challenge power structures. Impact of race, gender, language and other social factors; conflicting ideas about equality and social justice, personal expression and conscience. Prerequisite: 87100

87414 Cancer and Society (3)

Analysis of popular ideologies and attitudes regarding cancer in everyday life including the forms of stigma, hysteria and social movement surrounding public response to this disease. Prerequisite: 87100.

87425 Drugs in American Society (3)

A review of the major issues in the study and treatment of drug abuse in their social context. Prerequisite: 87100.

87431 Mass Media and Culture (3)

An examination of the impact of mass media on contemporary popular culture Prerequisite: 87100.

87432 Social Policy (3)

Impact of private and governmental policy-making on social institutions and the quality of life in the United States. Prerequisite: 87100.

87435 Public Health and Social Policy (3)

Sociological analysis of issues in health delivery services. Prerequisite: 87100.

87443 Human Services Theory and Practice I (3)

Critical examination of knowledge and skills related to working with families and groups. Emphasis on cultural diversity, a variety of intervention approaches, and group work processes. Prerequisite/Co-requisite: 87350. Co-requisite: 87480.

87444 Human Services Theory and Practice II (3)

Critical examination and acquisition of intervention strategies when working with a variety of populations. Emphasis on ethical decision-making, value-clarification, and group work processes. Prerequisite: 87443. Co-requisite: 87481.

87445 Human Services Theory and Practice III (3)

Capstone course for the Concentration in Human Services. Critical examination of U.S. as well as international social welfare policy. Research into and writing of student-selected thesis. Prerequisite: 87444. Co-requisite: 87482.

87450 Historical Sociology (3)

The course emphasizes the structure of social relations in feudal societies, sociological theories of national transitions to capitalism, modern developments in economic, political, and cultural institutions. Prerequisite: 87100.

87451 Alienation and Mental Illness (3)

Critical issues in the sociology of crime with a focus on such topics as prevention of street crimes, white collar crimes, and crimes against humanity. Prerequisite: 87100, 87332.

87452 Seminar in Criminal Behavior (3)

Critical issues in the sociology of crime with a focus on such topics as prevention of street crimes, white collar crimes, and crimes against humanity. Prerequisite: 87100, 87332.

87453 Postmodernity and Sociology (3)

Consideration of the relationship between scientific knowledge, power, and society. Prerequisite: 87100 and 87303.

87455 Social Work Intervention (3)

Preparation for intervention in individual, family, and organization problem areas through a combination of case studies, instruction in case presentation methods, and a thorough grounding in relevant social theory, with special emphasis on mental health. Prerequisite: 87350.

87470 Elder Care Internship Seminar (3)

Integrates internship experience in elder care agencies with readings and seminar discussions on the theory, practice and policy in long-term elder care. Addresses issues in aging, gerontology, and social policy. Prerequisite: PI.

87480, 87481, 87482 Fieldwork in Human Services Agency I, II, III (3 each)

120 hours of internship in human services agency consisting of 8 hours a week for 13 weeks and individual as well as group supervision at the college. Prerequisite 87480: PI, 87443. Prerequisite 87481: PI, 87444. Prerequisite 87482: PI, 87445.

87490 Senior Seminar in Sociology (3)

Organization, execution, and presentation of selected substantive and methodological problems. Prerequisite: Senior sociology major.

87494 Fieldwork in Sociology (3)

Student volunteers in the community gain an intellectual and a professional experience that allows them to develop an inside understanding of a particular organization, its clients' needs, and its connection to the larger social structure. Prerequisite: PI, PC and permission of Dean.

Urban Studies

An interdisciplinary minor in urban studies is available to students interested in advanced work in urban, regional, or community planning; to students seeking teacher certification who expect to enter an urban area; and to liberal arts students who wish to add an urban affairs emphasis to their academic major.

The minor program seeks, through careful advising, to integrate the work of the various academic disciplines into a broad approach to the nature of urban life. The program is of particular interest to students majoring in anthropology, Black studies, economics, English, geography, geology, history, political science, psychology, sociology, or Spanish. Each faculty member involved is also available to advise students interested only in specific courses to strengthen their competence in a given area, such as

economics, geography, or education.

Students interested in urban planning may also be interested in the major in geography with emphasis in planning. See the listing under "Geography".

Minor in Urban Studies

18 credits

Each candidate for a minor in Urban Studies must complete 18 credits selected from among the following courses. At least 12 credits must be taken in core courses outside the student's major department. The remainder may be taken from core courses or supplementary courses listed below.

Core Courses.....12-18 credits

- 07510 Urban Anthropology (3)
- 17350 Contemporary Social Issues in the Black Community (3)
- 33422 Urban Economic Problems (3)
- 48526 Urban Planning (3)
- 58304 Development of the American City (3)
- 77301 State Politics (3)
- 77318 Local Politics (3)
- 87345 Cities and Suburbs (3)

Supplementary Courses..... 0-6 credits

- 17202 Black History II (3)
- 17355 The Black Family (3)
- 17370 Education in the Black Community (3)
- 48382 Air-Photo Interpretation and Remote Sensing (5)
- 48410 Regional Planning and Development (3)
- 48412 Location Analysis in Business and Industry (3)
- 48560 Problems of Population (3)
- 58302 American Immigration (3)
- 58328 American Social and Cultural History: 1877-Present (3)

Women's Studies

Phone: (845) 257-2975

Location: Southside House

Web address: www.newpaltz.edu/wmnstudies

Women's Studies is an interdisciplinary academic program offering a Bachelor of Arts degree, a liberal arts and sciences minor, and a Women's Studies/Elementary Education major. The foundation of the program is the study of women, past and present, in various fields of inquiry. The courses examine the presuppositions of academic disciplines from a feminist, multicultural perspective. They explore aspects of women's social, cultural and political experience in the United States and throughout the world. Some courses are offered through Women's Studies, and others are offered through other college departments. An interdisciplinary course, "Women: Images and Realities" provides the introduction to the program. The Practicum in Women's Studies offers students an opportunity to work in organizations concerned with women's issues. In the senior seminar students do an in-depth research

project in a topic of their choosing.

The Women's Studies program supports a variety of campus activities. It often presents lectures and films in conjunction with other organizations and hosts an annual conference about current issues affecting women. A colloquium series provides a forum for students and faculty to discuss their research in Women's Studies. Because the Women's Studies Program at SUNY New Paltz is committed to improving the position of women on the campus and in the community, the program concerns itself with discrimination against women students and faculty, with affirmative action, and with the general expansion of campus services for women.

Majors in Women's Studies

34 credits

Required Courses.....19 credits

- 94220 Women: Images and Realities (4)
- 94420 Practicum in Women's Studies (3)
- 94490 Seminar in Women's Studies (3)

"Women in History and Society"

One of the following:

- 17221 The Black Woman (3)*
- 94311 Women and Work (3)
- 94316 History of Women in the United States to 1890 (3)
- 94317 History of Women in the United States from 1890 (3)

"Women as Individuals in Society"

One of the following:

- 38351 Education of Self (3)
- 41323 Women in Literature: A Contemporary View (3)
- 80350 Psychology of Women (3)

"Theoretical Perspectives"

One of the following:

- 07421 Cross-Cultural Perspective on the Status of Women (3)*
- 94423 Feminism in the United States (3)

Option I or Option II.....15 credits

Option III.....31 credits

For each Option, students must take at least one course designated "Gender Across Cultures", indicated with an asterisk. (These may include some selected topics courses also.)

OPTION I

(Single Major in Women's Studies) Three courses (9 credits) from one of the following fields of emphasis (courses counted toward the required courses, above, may not also be counted toward the field of emphasis).

Literature, Communication Arts, Visual Arts & Theatre

- 41323 Women in Literature: A Contemporary View (3)
- 41324 Women in 20th-Century Literature (3)
- 41514 Female Heroes of Fiction: Twentieth Century (3)
- 52319 Women in German Literature and Film (3)*
- 71356 Linguistics and Gender (3)
- 90356 Communication and Dissenting Voices (3)
- 90412 Gender and Communication (3)

Theoretical Perspectives

- 07421 Cross-Cultural Perspective on the Status of Women (3)*
- 38581 Racism and Sexism in Education (3)*
- 87360 Sociology of Women (3)
- 87533 Women in Society (3)
- 94423 Feminism in the United States (3)

Human Services and Social Change

- 17221 The Black Woman (3)*
- 38351 Education of Self (Women) (3)
- 38581 Racism and Sexism in Education (3)
- 77365 Sex Discrimination and the Law (3)
- 80350 Psychology of Women (3)
- 87360 Sociology of Women (3)
- 94311 Women and Work (3)
- 94314 Violence Against Women (3)
- 94315 Women with Women (3)
- 94399 Women and HIV: Hidden Faces (1)
- 94399 Rape and Sexual Assault (1)
- 94423 Feminism in the United States (3)
- 94415 Women and Health (3)

History, Politics and Work

- 17221 The Black Woman (3)*
- 58305 Women In European History (3)
- 58313 Women in Medieval Europe(3)
- 58480 Women in China (3)
- 77365 Sex Discrimination and the Law (3)
- 94311 Women and Work (3)
- 94316 History of Women in the United States to 1890 (3)
- 94317 History of Women in the United States from 1890 (3)

Electives..... 6 credits

Each candidate under option I must complete two additional courses (6 credits) under advisement.

OPTION II

(Double major in Women's Studies and another discipline.) Five Women's Studies courses must be chosen to complement the student's other major. Because careful planning is required, the student should select a Women's Studies advisor before planning the program of study.

In either option, at least one half of the courses taken for the Women's Studies major must be upper-division courses.

OPTION III

Women's Studies/Elementary Education Major

31 credits

Language Arts Core.....15-16 credits

- 41323 Women in Literature (3)
- 58316 History of Women in the United States to 1890 (3)
- OR
- 58317 History of Women in the United States from 1890 (3)
- 94220 Women: Images and Realities (4)
- 90452 Gender and Communication (3)
- 94490 Seminar in Women's Studies (3)

Students must select three of the following courses... 9 credits

- 41324 Women in Twentieth-Century Literature (3)
- 41493 Women in Eighteenth-Century Literature (3)
- 41514 Female Heroes of Literature: Twentieth Century (3)
- 46493 French Women's Autobiography (3)
- 52319 Women in German Literature and Film (3)
- 90356 Communication and Dissenting Voices (3)
- 91425 Multiculturalism and Theatre (3)
- 94393 Feminist Art and Culture (3)

Electives..... 6 credits

Each candidate under option III must complete two additional women's studies courses under advisement.

NOTE: Students will also need to complete Elementary Education requirements, as listed under Education major.

Minor in Women's Studies

19 credits

Required Courses.....13 credits

- 94220 Women: Images and Realities (4)

"Women and Society"

One of the following:

- 07421 Cross-Cultural Perspective on the Status of Women (3)
- 17221 The Black Woman (3)
- 38581 Racism and Sexism in Education (3)
- 58316 History of Women in the United States to 1890 (3)
- 58317 History of Women in the United States from 1890 (3)
- 77365 Sex Discrimination and the Law (3)
- 87360 Sociology of Women (3)
- 94311 Women and Work (3)
- 94314 Violence Against Women (3)

94315 Women with Women (3)

"Women as Individuals"

One of the following:

38351 Education of Self (Women) (3)

41323 Women in Literature: A Contemporary View (3)

80350 Psychology of Women (3)

"Theoretical Perspectives"

One of the following:

07421 Cross-Cultural Perspective on the Status of Women (3)

71356 Linguistics and Gender (3)

77443 Sex Discrimination and the Law (3)

94423 Feminism in the United States (3)

Under advisement, certain selected topics courses may be substituted for courses in the above three groups.

Electives..... 6 credits

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

Descriptions for cross-listed Women's Studies courses may be found under the appropriate headings elsewhere in this catalog. Below are interdisciplinary courses based in the Women's Studies Program.

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

94220 Women: Images and Realities (4)

An examination of the myths surrounding women's role in American society and the realities of women's lives, with a focus on both common experiences and cultural variation. Attention is given to issues raised by contemporary feminism.

94311 Women and Work (3)

Integration of perspectives and materials from a variety of disciplines to explore the experience of working women in the United States. Topics include: historical accounts; effects of the family, political system and economic structure on women's work; and alternatives for meaningful work.

94314 Violence Against Women (3)

An examination of violence against women in contemporary culture: rape, battery, sexual abuse and violence in the media.

94315 Women With Women (3)

A study of women who choose to build lives with other women. Includes both a historical survey and an analysis of issues facing lesbians in contemporary society.

94316 History of Women in the United States to 1890 (3)

A survey of the history of women from 1620-1890, examining changes in women's private and public lives with attention to the differences among women of varying regional, racial and economic backgrounds.

94317 History of Women in the United States from 1890 (3)

A survey of the history of women from 1890-1990, examining changes in women's private and public lives with attention to the differences among women of varying regional, racial and economic backgrounds.

94415 Women and Health (3)

Women's health issues from an interdisciplinary perspective. History and structure of the medical establishment as it affects women consumers. Designed for lay persons, this course will increase understanding of women and health care and foster informed decision-making.

94420 Practicum in Women's Studies (3)

Work in an organization or action project that serves or advocates for women. Participate in a seminar that analyzes various approaches to improving women's lives and integrates feminist theory and practice. Prerequisite: 94220 or PI.

94423 Feminism in the United States (3)

An historical and theoretical analysis of various approaches to improving the status of women in the United States. The course examines recurrent themes in feminist theory and practice and traces the changes in feminist approaches from the 18th century to the present. Prerequisite: 94220 or PI.

94490 Seminar in Women's Studies (3)

A critical, interdisciplinary approach to advanced topics in Women's Studies. The focus of the course will vary year to year. Students will work on a major research project of their choice. Open only to Women's Studies majors.

School of Science and Engineering

John Harrington, Dean
David Clark, Associate Dean

www.newpaltz.edu/sse

Astronomy

The astronomy program at New Paltz is designed to serve two groups. First, those interested in exploring the subject as part of their general education may take courses requiring no science or mathematics preparation beyond introductory algebra. These courses combine classroom lectures on a wide range of astronomical topics with planetarium demonstrations, observation of the sky using the College telescopes, the Smolen Observatory, and opportunities for those interested to explore the universe via computer simulation. The second group are those science majors who wish to develop a minor concentration in astronomy. With a year of calculus, general physics and chemistry as preparation, a student may complete an astronomy minor.

Minor in Astronomy

36 credits

The astronomy minor will require science cognates, Astronomy 12301, and nine hours of upper-division electives relating to astronomy. The elective courses must be selected with the approval of the minor advisor in conjunction with the Physics Department chair.

Required courses.....27 credits

12301	Astronomy (4)
64251	Calculus I (4)
64252	Calculus II (4)
22201	General Chemistry I (4)
75201	General Physics I (4)
75202	General Physics II (4)
75308	Modern Physics I (3)

Electives..... 9 credits

Three astronomy-related courses at the 300 or 400 level selected under advisement. Particular courses related to astronomy include: astrophysics, atomic and nuclear physics, optics, quantum physics, relativity and thermodynamics.

Content of Minor

The minor appears to require 36 hours of courses. However, for students to do upper-division work in a technical subject such as astronomy they must have mathematics and basic chemistry and physics preparation. The student who would be attracted to this program would be a mathematics, chemistry, geology, or physics major. All of these students will have taken the year of calculus, the year of physics and perhaps the semester of chemistry. Thus the program will require a total of seventeen hours additional study for the minor.

Purpose of Minor

The minor will allow students to explore astronomy as an area of professional interest and possibly continue with graduate study in the field of astronomy. Astronomy is also an excellent example of the application of mathematics and physics to a series of interesting problems. The key course, Astronomy 12301, can serve as an upper-division elective.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

12201 Exploring the Solar System (3)

Introduction to solar system including history of astronomy, laws of mechanics and gravitation, motions of heavenly bodies, telescopes, space exploration and descriptions of sun, planets, moons, asteroids, comets and meteors. Planetarium demonstrations, sky viewing with telescopes and computer simulations. No science preparation required. Limited use of algebra.

12202 Exploring the Universe (3)

Introduction to the universe beyond the solar system. Distance to stars, classes of stars, structure of stars, stellar evolution, white dwarfs, neutron stars, black holes, pulsars, quasars, radio astronomy, the Milky Way, galaxies, relativity and cosmology. Planetarium demonstrations, sky viewing with telescopes and computer simulation. No science preparation required. Limited use of algebra. No prerequisite.

12301 Astronomy (4)

Introduction for science majors. Spherical trigonometry, planetary motions, solar system, formation of stars, H-R diagram, binaries, brightness scale, distance ladder, Doppler effect, stellar masses, parallax, proper motion, radial motion, mass-luminosity, black-body radiation, spectroscopy, telescopes, dense stars, black holes, galaxies, relativity and cosmology. Prerequisite: 75202.

Chemistry

Phone: (845) 257-3790

Location: Coykendall Science Building Room 105

Web address: www.newpaltz.edu/chemistry

The Department of Chemistry at New Paltz offers both undergraduate and graduate instruction. Four undergraduate programs leading to liberal arts degrees are available: the chemistry major, the American Chemical Society (ACS) approved chemistry major, the chemistry major with biochemistry emphasis, and the chemistry major with biotechnology emphasis and is also very good preparation for the Ph.D. in Chemistry.

A student who obtains an ACS-approved degree is eligible for employment as a chemist in industry or government. The ACS-approved program also prepares students for graduate study and for professional training in the specialized areas of medicine most driven by advances in biochemistry and molecular biology and to professional training in medicine, dentistry, and veterinary medicine. Course

offerings allow chemistry majors to obtain a broad background in several areas of chemistry.

The biochemistry emphasis is designed for the student interested in biochemistry or health-related sciences requiring a substantial background in chemistry. This program provides excellent preparation for health professional training, as well as for graduate study in clinical chemistry, physiology, and medicinal chemistry. Students take core courses in chemistry and biology and complete the year-long biochemistry sequence.

The biotechnology emphasis substitutes an advanced laboratory that includes biochemical analysis course for 22303 and also has additional biology requirements beyond the biochemistry emphasis major in chemistry. This program is designed to prepare graduates for further study or work in this exciting new area of knowledge.

The chemistry major requires fewer advanced courses than the ACS approved program. But student take, with advisement, the same core courses that provide theoretical and hands-on education in the major areas of chemistry. Students are able to combine a chemistry major with pre-law, business, or teaching programs. This degree with selected courses in biology can prepare students for medical school entrance requirements. Preparation for a non-laboratory career in chemistry could include management or marketing courses offered by the business program at New Paltz.

Recent national surveys have identified trends in the evolving growth areas of businesses that use chemistry. These suggest that combining chemistry courses with experience in related areas provides a good background for future career choices. The Chemistry Department can identify courses that provide the chemistry major with knowledge of small business operations, environmental monitoring and materials development. Check cross listings in the schedule of classes and speak with your major advisor for further information.

The American Chemical Society's Committee on Professional Training includes the New Paltz Chemistry Department on its list of approved departments. This is the equivalent to professional accreditation of the liberal arts curriculum.

Prospective chemistry majors should consult with the department chair as soon as possible after admission to the College and should take 64251 and 22201 in the fall semester of their freshman year.

Majors in Chemistry (General Degree)

48-49 credits

Required chemistry courses.....32-33 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 22303 Introduction to Analytical Chemistry (4)
- 22318 Organic Chemistry I (4)
- 22319 Organic Chemistry II (4)
- 22321 Physical Chemistry I (3)
- 22322 Physical Chemistry II (3)
- 22323 Experimental Physical Chemistry (3)

One course from the following:

- 22314 Inorganic Chemistry (3)
- 22407 Instrumental Techniques (4)

22461 Biochemistry I (4)
A Chemistry course at 400 or 500 level approved by the Chair.

Required cognate courses.....16 credits

64251 Calculus I (4)
64252 Calculus II (4)
75201 General Physics I (4)
75202 General Physics II (4)

Though not required, 22407—Instrumental Techniques, is strongly recommended.

Chemistry (ACS approved degree)

72-73 credits

In addition to the courses required by the general degree in chemistry, the following are required:

22314 Inorganic Chemistry (3)
22315 Inorganic Chemistry Lab (3)
22407 Instrumental Techniques (4)
22461 Biochemistry (4)
22490 Senior Research in Chemistry (3)

Elective chemistry course..... 3 credits

One additional semester of advanced work selected from 400- and 500-level courses in chemistry. (22495, Independent Study, and 22494, Fieldwork, do not meet this requirement.)

Required cognate courses.....20 credits

64251 Calculus I (4)
64252 Calculus II (4)
64353 Calculus III (4)
75201 General Physics I (4)
75202 General Physics II (4)

Chemistry (Biochemistry Emphasis)

75-76 credits

In addition to the courses required by the general degree in chemistry, the following courses are required:

22407 Instrumental Techniques (4)
22461 Biochemistry I (4)
22462 Biochemistry II (4)
22490 Senior Research (3)

Required cognate courses.....28 credits

64251 Calculus I (4)
64252 Calculus II (4)
75201 General Physics I (4)
75202 General Physics II (4)
15201 General Biology I (4)
15202 General Biology II (4)
15320 Genetics (4)

Chemistry (Biotechnology Emphasis)

73-74 credits

In addition to the courses required by the general degree in chemistry (with the exception of 22303, Introduction to Analytical Chemistry), the following courses are required:

- 22461 Biochemistry I (4)
- 22462 Biochemistry II (4)
- 22572 Biotechnology Lab (4)

Required biology courses.....18-19 credits

- 15201 General Biology I (4)
OR
- 15210 Introductory Biology (4)

- 15311 Developmental Plant Anatomy (4)
OR
- 15545 Cell Development and Differentiation (3)

- 15320 Genetics (4)
- 15350 General Microbiology (4)
- 15506 Cell Biology (4)

Required cognate courses.....16 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 75201 General Physics I (4)
- 75202 General Physics II (4)

Minor in Chemistry

17-20 credits

Required Chemistry courses..... 8 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)

Required Elective courses.....9-12 credits

Choose three from the following:

- 22303 Analytical Chemistry (4)
- 22314 Inorganic Chemistry (3)
- 22318 Organic Chemistry I (4)
- 22319 Organic Chemistry II (4)
- 22321 Physical Chemistry I (3)
- 22322 Physical Chemistry II (3)
- 22XXX Course in Chemistry not having Physical Chemistry as prerequisite (3-4)

The college also offers an Interdisciplinary minor in Environmental Science. See index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

22104 Chemistry for the Consumer (3)

Introduction to fundamental principles of chemistry. Description of the behavior of chemicals found about the home: water, foods, drugs, soaps and detergents, plastics, fibers, fuels, poisons, fertilizers, metals, other common substances. Metric measurement. Not for science majors.

22182 Chemistry in Art (3)

Materials used in the production of art works, including their sources, properties, and applications. Topics to be covered are: metals, their use in sculpture, printmaking, and gold and silver work; paper; black and white photography; pigments and dyes; coatings (varnishes and synthetic polymers). Designed for non-science majors. Prerequisite: Not for science majors.

22201 General Chemistry I (4)

Principles governing chemical change in relation to the atomicity of matter, atomic structure and the periodic system of the elements. Laboratory work in diversified typical chemical reactions and manipulations and qualitative chemical analysis. Prerequisite: C- in 64050 or MPL 3.

22202 General Chemistry II (4)

Kinetics, thermodynamics, equilibria and electrochemistry. Laboratory work in inorganic preparation equilibria and quantitative analysis. Prerequisite: 22201.

22303 Introduction to Analytical Chemistry (4)

Lecture and laboratory work in gravimetric, volumetric, and elementary instrumental analysis. Application of statistics to analytical chemistry. Prerequisite: 22202.

22314 Inorganic Chemistry (3)

Inorganic Chemistry builds on the foundation provided in General and Organic Chemistry. The chemistry of the full periodic table will be discussed. Emphasis will be placed on modern techniques, theories, and applications. Prerequisite: PI.

22315 Inorganic Chemistry Laboratory (2)

Inorganic Chemistry Laboratory puts into practice the principles learned in Inorganic Chemistry. Modern laboratory techniques will be taught and used to explore the chemistry of s, p, and d-block elements. Prerequisite: PI.

22316 Recitation Organic Chemistry I (0)

Weekly discussion sessions required of all students enrolled in 22318 in which assigned homework problems and any additional concepts of organic chemistry requested by the class are discussed.

22317 Recitation Organic Chemistry II (0)

Weekly discussion sessions required of all students enrolled in 22319, in which assigned homework problems and any additional concepts or organic chemistry requested by the class are discussed.

22318 Organic Chemistry I (4)

Structural theory and its application to the study of the properties of carbon compounds. Laboratory

work in basic techniques on a microscale level. Prerequisite: 22202; co-requisite: 22316.

22319 Organic Chemistry II (4)

Continuation of Organic Chemistry I. Laboratory work will utilize the microscale techniques employed in Organic Chemistry I to the study of organic reactions. Prerequisite: 22318; co-requisite: 22317.

22321 Physical Chemistry I (3)

Ideal and real gases, kinetic molecular theory, thermodynamics, phase and chemical equilibrium, surface chemistry. Prerequisite: 22202, 64252, and 75202.

22322 Physical Chemistry II (3)

Chemical kinetics, electrochemistry, electrolytic equilibria, quantum chemistry, molecular structure; spectroscopy. Prerequisite: 22321.

22323 Experimental Physical Chemistry (3)

Lecture and laboratory work in methodology and techniques used in physical chemistry. Stresses design of experiments, thorough analysis of data, and the writing of scientific reports. Prerequisite: 22303. Co-requisite: 22322.

22407 Instrumental Techniques (4)

Familiarization with the modern instruments and techniques used in chemistry. Prerequisite: PI and 22322.

22461 Biochemistry I (4)

Examination of the chemistry of cellular constituents, especially biopolymers, and metabolic reactions leading to biologically useful energy production. Control of intermediary metabolism at the molecular level. Prerequisite: 22318, 22319, 15201, 15202.

22462 Biochemistry II (4)

Further consideration of metabolic energy yielding processes and utilization of this energy for biosynthesis of nucleic acids, proteins, and cell organelles and membranes. Genetic and organismal control of cellular development. Methods of genetic engineering. Prerequisite: 22461.

22485 Seminars in Chemistry (0)

A series of lecture and discussion sessions conducted by distinguished visiting scientists and faculty members and students of the chemistry department. Topics are of current interest in chemistry, many of which cannot be covered in traditional courses. Prerequisite: Senior chemistry majors.

22490 Senior Research in Chemistry (3)

Student undertakes a program of research under the guidance of a faculty advisor. Prerequisite: PC.

Computer Science

Phone: (845) 257-3990

Location: Faculty Office Building Room N12

Web address: www.newpaltz.edu/compsci

The Department Computer Science offers an undergraduate major that leads to a B.A. or a B.S. in Computer Science. The major, which is accredited by the Computing Sciences Accreditation Board, prepares students for graduate study or high-level professional employment in the computer and information technology industries. The department also offers a minor in Computer Science that gives students the background to use the computer in other disciplines.

SUNY New Paltz has a fully networked campus and a multi-user computer system that provides e-mail, Internet access, and software to the campus community. Additionally, the Department of Computer Science maintains several specialized computer laboratories. Computer science students use these resources and gain experience working with current hardware, operating systems, and programming languages.

NOTE: No course (including transfer courses) in which a student receives a grade below C- or a pass/fail grade, may be used to satisfy a major requirement.

NOTE: Some Computer Science courses have a Math Placement Level prerequisite. Consult the Department of Mathematics for information concerning Math Placement Levels.

1. Major in Computer Science

40 credits

1. A. Required31 credits

- 25210 Computer Science I: Foundations (4)
- 25310 Computer Science II: Data Structures (3)
- 25325 Computer Organization and Assembly Language (3)
- 25340 Operating Systems I (3)
- 25352 Object Oriented Programming (3)
- 25353 Software Engineering (3)
- 25410 Design and Analysis of Algorithms (3)
- 25420 Languages and Machines (3)
- 25450 Design of Programming Languages (3)
- 25480 Senior Seminar (3)

1. B. Electives..... 3 credits

One of the following:

- 25341 Operating Systems II (3)
- 25430 Compiler Construction (3)

1. C. Electives..... 6 credits

Any two 3-credit upper-division computer science courses.

2. Major in Mathematics

18 credits

2. A. Required..... 4 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64363 Combinatorics (3)
- 64381 Probability and Statistics I (3)

2. B. Elective..... 4 credits

One of the following:

- 64353 Calculus III (4)
- 64375 Numerical Methods (4)

3. Major in Engineering

4 credits

- 45230 Digital Logic Design (3)
- 40208 Lab (1)

4. Major in Science

12 credits

One of the following one-year sequences:

- 75201 General Physics I (4)
- 75202 General Physics II (4)
- OR
- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)

4. B. Elective..... 4 credits

One of the following courses:

- 15201 General Biology I (4)
- 22201 General Chemistry I (4) *(if not used in 4. A.)*
- 50220 Physical Geology (4)
- 75201 General Physics I (4) *(if not used in 4. A.)*

5. Major in Philosophy

3 credits

- 71393 Philosophy and Technology (3)

Minor in Computer Science

16 credits

Required Computer Science Course..... 4 credits

- 25210 Computer Science I: Foundations (4)

Elective Computer Science Courses..... 9 credits

Each minor candidate is required to complete at least three 300-level-or-above computer science courses with the prior approval of an advisor from the department. Elective computer science courses must include at least two that are not required in the student's major.

Elective Mathematics Course..... 3 credits

Each minor candidate is required to complete at least one 200-level-or-above mathematics course (except 64240).

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be

offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

25100 Computers and Applications (3)

This course will provide students with a broad overview of computers and their uses. Topics include hardware, software, and the Internet/World Wide Web. Various applications such as word processing, spreadsheets, and database management systems will be discussed. The course is not intended for Computer Science majors.

25104 Visual Programming (3)

This course covers the Windows environment including files, program groups, Windows Help and applications. It covers visual programming topics such as applications, windows, controls and script writing. Prerequisite: C- in Basic Algebra or MPL 3.

25210 Computer Science I: Foundations (4)

Algorithms, computer organization, data representation, program structure, programming techniques, numerical and non-numerical problems with emphasis on the analysis of problems and the formulation of algorithms for their solution. Numerous short programming assignments. Prerequisite: C- in 64152 or MPL 4.

25310 Computer Science II: Data Structures (3)

Advanced programming and techniques for organizing and operating upon data. Lists, stacks, trees, and graphs. Sequential and linked storage allocations. Data structures in language processors. Prerequisite: B- in 25210.

25325 Computer Organization and Assembly Language Programming (3)

Internal organization and 8088 assembly language programming; representation of data and computer arithmetic, computer elements and their function, micro-operations and instruction sequencing, assembly code and its translation. Prerequisite: C- in 25310.

25340 Operating Systems I (3)

The design and implementation of single and multi-user operating systems. Memory management, process management, device management. Prerequisite: C- in 25325.

25341 Operating Systems II (3)

Design and implementation of major components of a modern operating system. Prerequisite: C- in 25340.

25352 Object Oriented Programming (3)

The concepts of object oriented programming -- objects and classes, messages and receivers, encapsulation and inheritance -- and the typical tools -- browsers and libraries -- are presented. A large number of programming assignments require the student to commit substantial time and effort to this course, and provide the student with a working knowledge of object oriented programming. Prerequisite: C- in 25310.

25353 Software Engineering (3)

This is an introductory software engineering course that has a project as a major component. The emphasis is on the specification, organization, implementation, testing, and documentation of software. Programming proficiency in C as well as a background in data structures, file handling, and basic

flowcharting are necessary prerequisites. Prerequisite: C- in 25310.

25410 Design and Analysis of Algorithms (3)

Algorithm design, analysis, correctness and implementation. Application such as sorting, trees, graphs, hashing, flows. Prerequisite: C- in 25310 and 64363.

25420 Languages and Machines (3)

Specification and classification of languages. Machine models. Relationship between machines and languages. Prerequisite: C- in 25310 and 64363.

25430 Compiler Construction (3)

Design and construction of compilers. General characteristics and machine dependencies. Prerequisite: C- in 25450.

25440 Database Principles (3)

Study of the logical and physical organization of large databases; database system programming. Prerequisite: C- in 25310.

25450 Design of Programming Languages (3)

Language processors, data structures, control structures, run-time representation, comparison of programming languages. Students will write programs in several programming languages. Prerequisite: C- in 25325.

25455 Declarative Languages (3)

Declarative programming concepts. One language in each of the following categories is studied in detail: functional, logical, and object oriented. Students are required to write programs in several languages. Prerequisite: C- in 25310.

25460 Computer Architecture (3)

Data representation, memory organization, input/output processing, stack computers, parallel computers, pipeline architecture, microprogramming. Prerequisite: C- in 25325 and 40230.

25470 Computer Communication Networks (3)

Network architecture, data flow control, transmission control, path control, recovery, routing techniques. Prerequisite: C- in 25325.

25480 Senior Seminar (3)

Seniors majoring in computer science research topics in computer science, prepare written reports and make oral presentations. Prerequisite: Senior status, Computer Science major.

Electrical Engineering/Computer Engineering

Phone: (845) 257-3720

Location: Resnick Engineering Hall Room 103

Web address: www.engr.newpaltz.edu

Electrical Engineering

The Department of Electrical and Computer Engineering offers a comprehensive program in electrical engineering which is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). Students may choose electives in microelectronics, communications, signal processing, control, robotics, energy conversion, microwaves, electromagnetics and computer engineering.

Electrical Engineering continues to be a growth program in the field of engineering due to a rapidly changing technological society and expanding industrial needs. The New Paltz program is designed to meet these needs generally and those of the mid-Hudson valley specifically.

The curriculum consists of a humanities and social sciences component, a pre-engineering phase (pre-engineering major code 516), and upper-division engineering course work (electrical engineering major code 517). Electrical engineering students must meet a modified General Education II requirement. This includes the pre-engineering courses in mathematics and science and the humanities/social science sequence. The pre-engineering and humanities/social sciences requirements are exactly the same for the electrical engineering and computer engineering programs.

Electrical Engineering Curriculum

125-131 credits

Humanities and Social Sciences.....	16-21 credits
Pre-Engineering.....	36 credits
Electrical Engineering Core.....	50-51 credits
Technical Electives.....	23 credits

Although it is possible for a dedicated student who begins the math sequence with Calculus I to complete all degree requirements in four years, our students, like those at most engineering schools in the United States, typically require an additional semester to complete the program.

Humanities and Social Sciences Component 16-21 credits

- Modern World Studies (4)
- Language Requirement¹ (3-8)

Choose one (1) course each out of three (3) of the following four lists from the “Student Advising Handbook – General Education IIA Requirements” (total of 9 credits)

- A. Cultures and Civilization (3)
 One course from either List 1 or 2, pp. 14, 15.
- B. The American Experience (3)
 One course from List 1, pp. 15, 16: United States Studies (3).
- C. Social Sciences and Modern Society (3-4)
 One course, see pg. 16.
- D. Studies in Aesthetic Expression (3-4)
 One course from List 1, pp. 17, 18.

Pre-Engineering Requirement

36 credits

The pre-engineering course of study consists of 36 credits in mathematics, computer science, physics, chemistry, introductory engineering, and English. The required courses are:

Mathematics

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64353 Calculus III (4)

Computer Science

- 25210 Computer Science I: Foundations (4)

Physics

- 75201 General Physics I (4)
- 75202 General Physics II (4)

Chemistry

- 22201 General Chemistry I (4)

Engineering

- 47101 Introduction to Engineering Science (3)

English

- 41160 Freshman Composition I (3)
- 41180 Freshman Composition II (3)
- OR
- 41205 General Honors English I (3)
- 41206 General Honors English II (3)

Admission to the Electrical Engineering Major

Students completing the pre-engineering sequence with a grade point average of 2.50 or above are eligible for admission to the Electrical Engineering program (major code 517).

Note that the general education and pre-engineering requirements are identical for both electrical and computer engineering majors. Therefore, a student who has successfully completed the pre-engineering requirement may declare either the electrical engineering (major code 517) or the computer engineering (major code 518) upper division major.

Students are strongly advised to complete at least six credits of humanities and social sciences courses before applying for admission to an engineering major.

The admission of transfer students will be based on a detailed comparison of their transcript with the New Paltz pre-engineering requirements and consultation with an advisor from the Department of Electrical and Computer Engineering.

Departmental Academic Policies

Pre-engineering students may not enroll in engineering or engineering-related courses other than

Introduction to Engineering (47101) and Technical Communications(47309). Exceptions are frequently granted for Circuits Laboratory (40209), Circuit Analysis (40210), Digital Logic Laboratory (45208), Digital Logic Fundamentals (45230), Ordinary Differential Equations [ODE] (64359), Linear Algebra (64362), and Data Structures (25310). Permission to register in any of these courses must be obtained from the department before registration.

Students may not enroll in any engineering course unless all prerequisites have been met with a grade of C- or better. Only one course in which a D grade has been earned may be used toward the fulfillment of electrical engineering degree requirements.

Courses taken on a satisfactory/unsatisfactory basis cannot be applied to meet the engineering degree requirements.

Upper-Division Electrical Engineering Requirement

The upper-division electrical engineering course work, which leads to the Bachelor of Science degree in Electrical Engineering, consists of the electrical engineering core and a series of technical electives.

Electrical Engineering Core Curriculum

50-51 credits

The following courses constitute the electrical engineering core:

		Total Credits	Design Credits	Eng/Sci Credits
40209	Circuits Laboratory	1	0.5	0.5
40210	Circuit Analysis	4	0.5	3.5
40311	Signals and Systems	3	0.5	2.5
40320	Electronics I	3	1.0	2.0
40321	Electronics II	3	1.0	2.0
40322	Electronics I Lab	1	1.0	0
40323	Electronics II Lab	1	1.0	0
40340	Engineering Electromagnetics I	3	0.5	2.5
40341	Engineering Electromagnetics II	3	0.5	2.5
40408	Senior Design Project I ²	3	3.0	0
40409	Senior Design Project II ²	3	3.0	0
45208	Digital Logic Laboratory	1	0.5	0.5
45230	Digital Logic Fundamentals	3	1.0	2.0
45308	Microprocessor Laboratory	1	0.5	0.5
45331	Microprocessor System Design	3	1.0	2.0
47309	Technical Communications	2	0	0
64359	Ordinary Differential Equations	2	0	0
64381	Probability and Statistics I ³	3	0	0
64362	Linear Algebra	3	0	0
75XXX	Mechanical Engineering ⁵	<u>3 or 4</u>	1.0	2.0
		50-51		

Electrical Engineering Technical Electives

23 credits

Twenty-three credits of technical electives are required which must include at least three electrical and/or computer engineering (40XXX and/or 45XXX) lecture courses (9 credits) and two engineering (40XXX and/or 45XXX) laboratories (2 credits). Students must obtain the advice of their advisor about their choice of electives before registering. (Engineering graduate courses can be used as undergraduate technical electives.)

Lecture Group:

Total Design Eng/Sci

		Credits	Credits	Credits
25310	Data Structures	3	0.5	2.5
25340	Operating Systems I	3	1.0	2.0
25341	Operating Systems II	3	1.0	2.0
25410	Design and Analysis of Algorithms	3	0	1.0

Lecture Group:		Total Credits	Design Credits	Eng/Sci Credits
25420	Languages and Machines	3	1.0	1.0
25450	Design of Programming Languages	3	0	1.0
40312	Communication Systems	3	1.0	2.0
40316	Control Systems I	3	1.0	2.0
40317	Digital Control Systems	3	1.0	2.0
40342	Microwave Fundamentals	3	1.0	2.0
40423	Digital Integrated Circuits	3	1.0	2.0
40436	Microelectronic Technology	3	1.0	2.0
40444	Engineering Optics Conversion	3	1.0	2.0
40452	Electric Power Systems	3	1.0	2.0
404XX	Solid State Devices	3	1.0	2.0
40513	Digital Signal Processing	3	1.0	2.0
40533	Introduction to Parallel Computing	3	1.0	2.0
40534	Fault-Tolerant Design of Digital Systems	3	1.0	2.0
45435	VLSI Design	3	0.5	1.5
454XX	Embedded Systems	3	1.5	1.5
454XX	Computer Communication	3	1.0	2.0
474XX	Statistical Process Control ³	3	1.0	2.0
49440	Co-op/Fieldwork	3	1.5	1.5
64375	Numerical Methods	3	0	1.0
64382	Probability/Statistics II	3	0	1.0
64488	Partial Differential Equations	3	0	1.0
75309	Modern Physics I	3	0	0

Laboratory Group:		Total Credits	Design Credits	Eng/Sci Credits
40301	Engineering Optics	1	0	1.0
40302	Antennas	1	0	1.0
40303	Microwave Fundamentals	1	0.5	0.5
40304	Control	1	0	1.0
40305	Communication	1	0	1.0
40306	Microwave Circuits	1	0.5	0.5
40404	Robotics	1	0.5	0.5
404XX	Microelectronics Technology	1	0	1.0
404XX	Digital Signal Processing	1	0	1.0
40XXX	Digital Control Lab	1	0	1.0
40XXX	Electromechanical Energy Conversion Lab	1	0	1.0
45401	VLSI Design	1	0.5	0.5

Footnotes:

¹ The foreign language requirement may be met by:
a) Completing a two semester sequence in a foreign language at the elementary level.

OR

b) Completing one course in a foreign language at the intermediate level.

² Senior Design Project (40408 and 40409) - 6 cr. Seniors must register during each of the last two semesters preceding their graduation for Senior Design Project. A single project under the direction of a single faculty member will be spread over two semesters. This project should provide a meaningful engineering design experience and should draw on the cumulative technical background of the student.

³ 47XXX, Statistical Process Control, may be substituted for 64381, Probability and Statistics, in the Engineering core.

⁴ This course replaces the course 64385, Linear Algebra of ODE, in the engineering core. Students who have taken 64385 are **NOT** required to take 64362, Linear Algebra.

⁵ Choose one of the following two courses:

75315 Engineering Mechanics (4)

75422 Thermodynamics (3)

Computer Engineering

The Department of Electrical and Computer Engineering offers a comprehensive program in computer engineering. Students may choose electives in computer hardware, software engineering, computer and information engineering and communication and networking. Although the computer engineering program is not presently accredited, it will be presented for accreditation by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET) as soon as one student graduates from the program.

The computer revolution has changed the way in which we live, work and play. Computer engineers are at the heart of this rapid development. Career opportunities for computer engineering graduates continue to be plentiful. The New Paltz program is designed to meet these needs generally and those of the Mid-Hudson Valley specifically.

The curriculum consists of a humanities and social sciences component, a pre-engineering phase (pre-engineering major code 516) and upper-division engineering course work (computer engineering major code 518). Computer engineering students must meet a modified General Education II requirement. This includes the pre-engineering courses in mathematics and science and the humanities/social science sequence. The pre-engineering and humanities/social science requirements are exactly the same for the electrical engineering and computer engineering programs.

Computer Engineering Curriculum

125-131 credits

Humanities and Social Sciences.....	16-21 credits
Pre-Engineering.....	36 credits
Computer Engineering Core.....	56-57 credits
Technical Electives.....	17 credits

Although it is possible for a dedicated student who begins the math sequence with Calculus I to complete all degree requirements in four years, our students, like those at most engineering schools in the United States, typically require an additional semester to complete the program.

Humanities and Social Sciences Component

16-21 credits

Humanities and social sciences courses are an integral part of the engineering curriculum. Students must complete the following course work:

- Modern World Studies (4)
- Foreign Language Studies¹ (3-8)

Choose one (1) course *each* out of three (3) of the following four lists from the “Student Advising Handbook – General Education IIA Requirements” (total of 9 credits)

- A. Cultures and Civilization (3)
One course from either List 1 or 2, pp. 14, 15.
- B. The American Experience (3)
One course from List 1, pp. 15, 16: United States Studies (3).
- C. Social Sciences and Modern Society (3-4)

One course, see pg. 16.

- D. Studies in Aesthetic Expression (3-4)
One course from List 1, pp. 17, 18.

Pre-Engineering Requirement

36 credits

The pre-engineering course of study consists of 36 credits in mathematics, computer science, physics, chemistry, introductory engineering, and English. The required courses are:

Mathematics

- 64251 Calculus I (4)
64252 Calculus II (4)
64353 Calculus III (4)

Computer Science

- 25210 Computer Science I: Foundations (4)

Physics

- 75201 General Physics I (4)
75202 General Physics II (4)

Chemistry

- 22201 General Chemistry I (4)

Engineering

- 47101 Introduction to Engineering Science (3)

English

- 41160 Freshman Composition I (3)
41180 Freshman Composition II (3)
OR
41205 General Honors English I (3)
41206 General Honors English II (3)

Admission to the Computer Engineering Major

Students completing the pre-engineering sequence with a grade point average of 2.50 or above are eligible for admission to the computer engineering program (major code 518).

Note that the general education and pre-engineering requirements are identical for both electrical and computer engineering majors. Therefore, a student who has successfully completed the pre-engineering requirement may declare either the electrical engineering (major code 517) or the computer engineering (major code 518) upper division major.

Students are strongly advised to complete at least six credits of humanities and social science courses before applying for admission to an engineering major.

The admission of transfer students will be based on a detailed comparison of their transcript with the

New Paltz pre-engineering requirements and consultation with an advisor from the Department of Electrical and Computer Engineering.

Departmental Academic Policies

Pre-engineering students may not enroll in engineering or engineering-related courses other than Introduction to Engineering (47101), and Technical Communications(47309). Exceptions are frequently granted for Circuits Laboratory (40209), Circuit Analysis (40210), Digital Logic Laboratory (45208), Digital Logic Fundamentals (45230), Ordinary Differential Equations [ODE] (64359), Foundations of Mathematics I (64260), and Data Structures (25310). Permission to register in any of these courses must be obtained from the Department of Electrical and Computer Engineering before registration.

Students may not enroll in any engineering course unless all prerequisites have been met with a grade of C- or better. Only one course in which a D grade has been earned may be used toward the fulfillment of computer engineering degree requirements.

Courses taken on a Satisfactory/Unsatisfactory basis cannot be applied toward the engineering degree requirements.

Upper-Division Computer Engineering Requirements

The upper-division engineering course work, which leads to the Bachelor of Science degree in Computer Engineering, consists of the computer engineering core and a series of technical electives.

Computer Engineering Core Curriculum

56-70 credits

The following courses constitute the computer engineering core:

		Total Credits	Design Credits	Eng/Sci Credits
40209	Circuits Laboratory	1	0.5	0.5
40210	Circuit Analysis	4	0.5	3.5
40311	Signals and Systems	3	0.5	2.5
40320	Electronics I	3	1.0	2.0
40321	Electronics II	1	1.0	0
40323	Electronics II Lab	3	0.5	2.5
40408	Senior Design Project I ²	3	3.0	0
40409	Senior Design Project II ²	3	3.0	0
45208	Digital Logic Laboratory	1	0.5	0.5
45230	Digital Logic Fundamentals	3	1.0	2.0
45308	Microprocessor Laboratory	1	0.5	0.5
45331	Microprocessor System Design	3	1.5	1.5
45432	Introduction to Computer Architecture	3	1.0	2.0
45433	Computer Systems Design II	3	1.0	2.0
47309	Technical Communications	2	0	0
25310	Data Structures	3	0.5	2.5
64260	Foundations of Mathematics I ⁴	3	0	0
64359	Ordinary Differential Equations	3	0	0
64381	Probability and Statistics I ³	3	0	0
75XXX	Mechanical Engineering ⁵	<u>3 or 4</u>	1.0	2.0
		56-57		

Computer Engineering Technical Electives

17 credits

Seventeen credits of technical electives are required which must include at least one electrical engineering (40XXX) lecture course (3 credits) and one electrical engineering (40XXX) laboratory (1

credit). Students must obtain the advice of their advisor about their choice of electives before registering. (Engineering Graduate Courses can be used as undergraduate Technical Electives.)

Lecture Group:		Total Credits	Design Credits	Eng/Sci Credits
25340	Operating Systems I	3	1.0	2.0
25341	Operating Systems II	3	1.0	2.0
25410	Design and Analysis of Algorithms	3	0	1.0
25420	Languages and Machines	3	1.0	1.0
25450	Design of Programming Languages	3	0	1.0
40312	Communication Systems	3	1.0	2.0
40316	Control Systems I	3	1.0	2.0
40317	Digital Control Systems	3	1.0	2.0
40342	Microwave Fundamentals	3	1.0	2.0
40423	Digital Integrated Circuits	3	1.0	2.0
40436	Microelectronics Technology	3	1.0	2.0
40444	Engineering Optics	3	1.0	2.0
40451	Electromechanical Energy Conversion	3	1.0	2.0
40452	Electric Power Systems	3	1.0	2.0
404XX	Solid State Devices	3	1.0	2.0
40513	Digital Signal Processing	3	1.0	2.0
40533	Introduction to Parallel Computing	3	1.0	2.0
40534	Fault-Tolerant Design of Digital Systems	3	1.0	2.0
45435	VLSI Design	3	1.5	1.5
45XXX	Embedded Systems	3	1.5	1.5
45XXX	Computer Communications	3	1.0	2.0
474XX	Statistical Process Control ³	3	1.0	2.0
49445	Co-op/Fieldwork	3	1.5	1.5
64375	Numerical Methods	3	0	1.0
64382	Probability/Statistics II	3	0	1.0
64488	Partial Differential Equations	3	0	1.0
75308	Modern Physics I	3	0	0

Laboratory Group:		Total Credits	Design Credits	Eng/Sci Credits
40301	Engineering Optics	1	0	1.0
40302	Antennas	1	0	1.0
40303	Microwave Fundamentals	1	0.5	0.5
40304	Control	1	0	1.0
40305	Communication	1	0	1.0
40306	Microwave Circuits	1	0.5	0.5
40404	Robotics	1	0.5	0.5
404XX	Microelectronics Technology	1	0	1.0
404XX	Electromechanical Energy Conversion	1	0	1.0
40XXX	Digital Signal Processing	1	0	1.0
40XXX	Digital Control	1	0	1.0
45401	VLSI Design	1	1.0	0

Footnotes:

¹ The Foreign Studies Requirement may be met by:

a) Completing a two semester sequence in a foreign language at the elementary level.

OR

b) Completing one course in a foreign language at the intermediate level.

² Senior Design Project (40408 and 40409) - 6 cr. Seniors must register during each of the last two semesters preceding their graduation for Senior Design Project. A single project under the direction of a single faculty member will be spread over two semesters. This project should provide a meaningful engineering design experience and should draw on the cumulative technical background of the student.

³ 474XX Statistical Process Control may be substituted for 64381 Probability and Statistics I in the engineering core.

⁴ This course replaces the course 64385, *Linear Algebra and Systems of ODE in the engineering core*. Students who have taken 64385 are **NOT** required to take 64260, *Foundations of Mathematics I*.

⁵ Choose one of the following two courses:

75315 *Engineering Mechanics (4)*

75422 *Thermodynamics (3)*

Liberal Arts Designation

The following courses may be counted toward the liberal arts requirement: 40210, 40311, 40312, 40316, 40317, 40320, 40321, 40340, 40341, 40408, 40409, 40444, 40451, 45230, 45331, 45435, 47101, 47309.

Courses in General Engineering

47101 Introduction to Engineering Science (3)

(One 1-hour session and one 3-hour session per week.) Various fields of engineering activities, career opportunities and areas of electrical engineering. History of electrical engineering. Present and future trends in various areas of electrical engineering, such as energy conversion, automatic control, electronic communications and computers. Engineering ethics and professionalism. Visits to representative industries. Prerequisite: HS or college physics and PI.

47309 Technical Communications (2)

Typical communicative problems of the professional engineer; schedules, job specifications, step-by-step directions, presentation of data, professional articles, abstracts, technical proposals, oral presentations; reports.

Courses in Electrical Engineering

40209 Circuits Laboratory (1)

Laboratory exercises covering the material of 40210 Circuit Analysis. Co-requisite: 40210.

40210 Circuit Analysis (4)

Kirchoff's laws, Ohm's law, capacitors, inductors, resistors, RD, RL, and RLC circuits, circuit theorems, sinusoids and phasors, ac circuit analysis, power calculations in ac circuits, three phase circuits, coupled inductors and transformers, and passive filters. Prerequisite: 75202; pre/co-requisite: 64359, 40209.

40302 Antenna Laboratory (1)

Measurement of the far field pattern and characteristics of wire antennas and arrays for VHF. Measurement of the field pattern and characteristics of reflector type antennas in the X-band, and of aperture type antennas and arrays in the X-band. Prerequisite: PI.

40303 Microwave Fundamentals Laboratory (1)

Measurement of VSWR and wavelength in waveguides, stub tuners and matching, calibration of attenuators, time domain reflectometry and frequency domain network analyzer measurement. Prerequisite/co-requisite: 40342.

40304 Control Laboratory (1)

Transient response and frequency response measurements to characterize control system devices and components. Laboratory study of open-loop and closed-loop linear systems. Steady-state error analysis; positional speed control systems. Prerequisite: 40316 or 40317.

40305 Communication Laboratory (1)

AM communication circuits. FM communication. SSB communication circuits. RF power transmitting. Phase-locked loop circuits, frequency synthesis, time division multiplexing (sampling, PCM, DM), frequency division multiplexing, amplitude shift keying, phase shift keying, frequency shift keying. Prerequisite: 40312.

40306 Microwaves Circuits Laboratory (1)

Design, build and test planar microwave devices such as power divider, coupler, filter, mixer, amplifier, and oscillator. Prerequisite: PI.

40311 Signals and Systems (3)

Continuous and discrete -- time signals, systems, and their properties. Continuous and discrete -- time linear time -- invariant systems. Convolution sum and convolution integral. System descriptions using differential and difference equations. Continuous -- time Fourier series, Fourier transform, and their properties. Frequency -- selective filters, amplitude modulation, and sampling. Prerequisite: 64359 and 40210.

40312 Communication Systems (3)

Signal analysis, signal transmission. Digital communication systems. Amplitude modulation; angle modulation. Prerequisite: 40311 or 40332.

40316 Control Systems I (3)

Mathematical modeling of physical systems, signal flow graph, feedback control systems; stability; time domain analysis, frequency response and analysis of design using root locus, and frequency domain methods, Nyquist criterion and Nichols Chart, design of the PID controllers, time domain design of the phase lead and lag controllers. Co-requisite: 40311.

40317 Digital Control Systems (3)

Analysis and design of discrete-time control systems. General formulation of dynamic systems using difference equations. The Z-transform and its applications. Signal conversion and processing. Stability analysis. Design of discrete-time control system via transform methods. Compensator design using classical techniques. Prerequisite: 40311 or 40332.

40320 Electronics I (3)

Semiconductor, diodes, zener diodes, diode circuits. Bipolar junction transistors: physics, biasing and amplification. Metal-oxide semiconductor field effect transistor: physics, biasing and amplification. Bipolar transistor as a switch. Field effect transistor as a resistor. Prerequisite: 40210.

40321 Electronics II (3)

Multistage amplifiers (direct coupled, capacitor coupled). Cascade stage, differential amplifiers. Widlar current source. Operational amplifiers. Applications of operational amplifiers. Frequency response of amplifiers. Tuned amplifiers. Oscillators. Waveform generators. Feedback amplifiers. Power amplifiers. Laboratory exercises. Prerequisite: 40320.

40322 Electronics I Laboratory (1)

Laboratory exercises covering characterization of diodes, BJT, and JFET, diode circuits and biasing and amplification of BJT and JFET. Prerequisite/co-requisite: 40320.

40323 Electronics II Laboratory (1)

Laboratory exercises covering the multistage amplifier, direct coupled amplifier, difference amplifier, op-amp applications, frequency response, oscillator, waveform generator, power amplifier, and frequency response. Prerequisite/co-requisite: 40321.

40340 Engineering Electromagnetics I (3)

Transmission line theory. Graphical solutions using Smith Chart. Impedance matching. Transients on lossless lines. Coordinate systems and vector calculus. Maxwell's equations and the wave equation. Uniform plane waves. Prerequisite: 40210, 64353.

40341 Engineering Electromagnetics II (3)

Electrostatic fields in free space and material media. Electric energy, potential, and capacitance. Laplace's and Poisson's equations. Magnetostatic fields in free space and material media. Magnetic energy, magnetic potential, and inductance. Magnetic circuits. Quasi-static electromagnetic fields. Induction, magnetic forces and torques. Prerequisite: 40340.

40342 Microwave Fundamentals (3)

Review of Maxwell's equations, propagation of plane waves, reflection and transmission of plane waves, transmission line analysis, strip lines and microstrip lines, waveguide analysis, microwave networks. Prerequisite: 40341.

40408 Senior Design Project I (3)

First part of a two-semester design project. A written progress report is required at the end of the semester. Prerequisite: Graduating senior, major code 517 or 518 and PC.

40409 Senior Design Project II (3)

Second part of a two-semester design project. Written and oral reports are required at the end of the semester. Prerequisite: 40408 and PC.

40436 Microelectronic Technology (3)

Crystal growth. Epitaxy. Major steps in the fabrication of VLSI circuits. Process simulation and diagnostic techniques. Yield and reliability. Prerequisite: 40321.

40444 Engineering Optics (3)

Fourier optics. Introduction to optical information processing. Introduction to lasers. Optical fiber communications. Guided wave optics. Prerequisite: 40341.

40451 Electromechanical Energy Conversion (3)

Fundamentals of electromechanical energy conversion. Transformers. Induction machines, three phase and single phase. Synchronous machines. Prerequisite: 40341.

40452 Electric Power Systems (3)

Energy sources, transmission line parameters, transmission line modeling, power flow analysis, voltage and frequency control. Prerequisite: 40431.

Computer Engineering

45208 Digital Logic Laboratory (1)

Self-paced laboratory involving design of digital systems using programmable logic based design tools. Prerequisite: 45230.

45230 Digital Logic Fundamentals (3)

An introduction to digital logic design. Topics include algebra of logical variables, logical functions, combinational circuit design, flip-flops, counter, registers, arithmetic, and sequential circuit design.

45308 Microprocessor Laboratory (1)

Self-paced laboratory to provide hands-on experience encompassing Assembly and C programming languages and interfacing peripheral devices as applied to microprocessor systems. Prerequisite: 45230.

45331 Microprocessor System Design (3)

An introduction to microprocessor systems. Topics include microprocessor organization, Assembly language programming, memory interfacing and timing, programmable peripheral interface, timer, interrupts and programmable interrupt controller, and serial data communication. Prerequisite: 45230.

45401 VLSI Design Laboratory (1)

Software and hardware used in VLSI design. Applications to N-MOS and CMOS. Prerequisite/co-requisite: 40435.

45423 Digital Integrated Circuits (3)

MOS transistor, logic gate circuits and electrical characteristics. P-N junction and Schottky diodes. BJT, inverter and digital date circuits. Regenerative circuits. Semiconductor memories. Design projects. Course based on charge-control and SPICE2 large signal MOSFET, diode and BJT models, and the related integrated circuit analysis. Prerequisite: 40321, 45230.

45432 Introduction to Computer Architecture (3)

Design of a simple processor. Topics include performance metrics, data formats, instruction sets, design of arithmetic unit, data path and control design, pipelined architecture, memory hierarchies including caches and virtual memory, I/O systems, and multiprocessor systems. Prerequisite: 45331.

45435 VLSI Design (3)

Introduction to MOS devices and circuits (N-MOS, CMOS), MOS transistor theory. Integrated system processing technology and design rules (N-MOS and CMOS), circuit characterization and performance estimation, N-MOS and CMOS circuits and logic design. Interfacing. Introduction to VLSI design tools. Testability analysis. Micro architecture of VLSI systems. Chip design projects. Prerequisite: 40321, 45230.

Environmental Science

Majors that address environmental issues include biology, chemistry, geography and geology.

A minor is offered in Environmental Science. It provides science and non-science majors with the opportunity to broaden their knowledge in areas of natural science and social science germane to environmental issues. The requirements for the Environmental Science Minor differ for science and non-science majors.

Minor in Environmental Science

A total of 6 courses must be completed from the following two categories by all students:

Science/Technical.....12-20 credits

*Select four courses, at least two of which will **NOT** be used to satisfy requirements for the major:*

- 15340 Ecology (4)
- 15513 Conservation of Natural Resources (3)
- 15561 Endangered Species (3)
- 15593 Wetlands Ecology (4)
- 22303 Introduction to Analytical Chemistry (5)
- 22318 Organic Chemistry I (5)
- 22319 Organic Chemistry II (5)
- 22509 Spectrometric Identification of Organic Compounds (3)
- 48381 Basic Cartography (4)
- 48382 Remote Sensing (5)
- 48383 Introduction to Geographic Information Systems (3)
- 50339 Natural Resources and Energy (3)
- 50346 Conservation and Environmental Impact (3)
- 50533 Analysis of Soils and Sediments (3)

Policy/Politics/Planning..... 6 credits

Select two courses:

- 33304 Public Finance (3)
- 33305 State & Local Public Finance (3)
- 48410 Regional Planning and Development (3)
- 48526 Urban Planning (3)
- 77301 State Politics (3)
- 77310 Public Management (3)
- 77316 American Public Policies (3)
- 77318 Local Politics (3)
- 87432 Social Policy (3)

Non-Science Majors

Students not majoring in one of the four sciences (Biology, Chemistry, Geology, Physics) or in a companion 7-12 Education program must also take:

Two of the following:

- 15210 Introductory Biology (4)
- 22201 General Chemistry I (4)
- 50220 Physical Geology (4)

AND

One of the following:

- 64241 Introduction to Statistics (3)
- 64245 Basic Calculus (4)

These three courses add an additional requirement of 11 credits for non-science majors. These 11 credits are required for non-science majors in addition to the Science/Technical requirement of 12-20 credits and the Policy/Politics/Planning requirement of 6 credits.

The three additional courses are not intended to be prerequisites for the courses in either the Science/Technical or Policy/Politics/Planning areas. All Science/Technical and Policy/Politics/Planning are at the 300 level and above. Most of them have prerequisites, which must be considered when a student undertakes the Environmental Science Minor.

It is strongly recommended that students consult with the Coordinator of Environmental Science (257-3758) and/or an advisor in their major department as early as possible in their course planning.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Upper-Division Designation

The Environmental Science Minor has been designed as an advanced upper-division program. As such, all of the courses in it are at the 300 level or above and count toward the upper-division credit requirement.

Geological Sciences

Phone: (845) 257-3760

Location: Wooster Science Building Room 202

Web address: www.newpaltz.edu/geology

The Department of Geological Sciences offers instruction in the geological sciences at the undergraduate and graduate levels. Through formal courses, field work, and research projects, the students develop an awareness of the geological processes that shape our planet, and their impact on society and the environment. An undergraduate major in geology is offered with concentrations in the following areas: General Geology, Environmental Geoscience, and Environmental Science.

Elementary education, secondary education, and graduate teaching degrees with specializations in geology, environmental Geoscience, and earth science are also offered; these programs are described under the School of Education listings. A minor in geology is available for those majoring in other fields.

Interdisciplinary in nature, the liberal arts degree in geology requires courses in geology and in cognate areas. The General Geology option is recommended for those contemplating graduate work in the geological sciences. For any of the geology programs, Physical Geology (50220) should be taken in the fall semester of the freshman year, followed by Historical Geology (50301) in the spring. General Chemistry (22201) and Calculus I (64251) should also be taken in the freshman year if possible.

Transfer students should complete as many of the cognate requirements as possible before entering New Paltz. Ideally, one year each of college chemistry, physics, and calculus should be completed in addition to a one year laboratory sequence in geology (physical and historical geology).

It is important that all students seek advising early on, so they can complete the major on time. Students should get their advisor's approval of elective courses selected "by advisement" before taking the courses. It is the students' responsibility to become familiar with the program requirements, and to

work out the details of their program with the aid of their advisors. Additional advising information is available in the department office (WSB 202).

Students must earn a grade of C- or better in courses used for the Geology major and its cognates.

For non-majors interested in geology, Planet Earth (50100) and Evolving Earth (50110) are recommended as the year-long non-major sequence in earth science without a laboratory. For students desiring laboratory work, or those considering a geology minor, the recommended sequence is Physical Geology (50220) followed by Historical Geology (50301).

Honor's Research

Honor's Research is for students who wish to conduct a specialized research project at the undergraduate level. Students who plan on obtaining an M.A. or Ph.D. are advised to enroll in this course if they satisfy the prerequisites. Honor's Research is a very good means of letting the student, as well as faculty at New Paltz and other schools, identify whether or not he or she is suited for graduate work.

In order to enroll in Honor's Research (50491) a student must maintain a cumulative average of at least 3.00, and be recommended by a geology faculty sponsor and the department chair. Guidelines for research projects are available in the department office, and should be carefully read prior to meeting with the department chair to discuss the program.

Track I – General Geology

59-61 credits

Geology Core.....27 credits

- 50220 Physical Geology (4)
- 50301 Historical Geology (4)
- 50311 Mineralogy-Crystallography (4)
- 50313 Optical Mineralogy (3)
- 50314 Petrology (4)
- 50331 Stratigraphy-Sedimentation (4)
- 50338 Structural Geology (4)

Geological Science Courses.....9-10 credits

- 50305 Paleontology (4)
- 50492 Geological Field Methods (2)
- One 500-level geology course by advisement:*
- 505XX (3-4)

Cognate Courses.....23-24 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 64251 Calculus I (4)
- 75201 General Physics I (4)
- One of the following by advisement:*
- 64241 Introduction to Statistics (3)
- 64252 Calculus II (4)
- One of the following by advisement:*

- 75202 General Physics II (4)
- 75222 Fundamental Physics II (4)

Recommended Courses

- 15210 Introductory Biology (4)
- 15508 Scanning Electron Microscopy (4)
- 25210 Computer Science I (4)
- 48383 Introduction to GIS (3)

It is recommended that students who plan to do graduate or professional work in geology take a six-week field geology camp in the summer following their final semester at New Paltz.

Track II – Environmental Geoscience

56-58 credits

Geology Core.....27 credits

- 50220 Physical Geology (4)
- 50301 Historical Geology (4)
- 50311 Mineralogy-Crystallography (4)
- 50313 Optical Mineralogy (3)
- 50314 Petrology (4)
- 50331 Stratigraphy-Sedimentation (4)
- 50338 Structural Geology (4)

Geological Science Courses.....6-7 credits

One of the following by advisement:

- 50339 Natural Resources and Energy (3)
- 50346 Conservation and Environmental Impact (3)
- 50434 Environmental Surveying (3)

One 500-level geology course by advisement:

- 505XX (3-4)

Cognate Courses.....23-24 credits

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- 64251 Calculus I (4)
- 75201 General Physics I (4)

One of the following by advisement:

- 64241 Introduction to Statistics (3)
- 64252 Calculus II (4)

One of the following by advisement:

- 75202 General Physics II (4)
- 75222 Fundamental Physics II (4)

Recommended Courses

- 15210 Introductory Biology (4)
- 15508 Scanning Electron Microscopy (4)
- 25210 Computer Science I (4)
- 48383 Introduction to GIS (3)

Track III -- Environmental Science

59-63 credits

Geological Science Courses.....31 credits

- 50120 Weather and Environment (4)
- 50205 Environmental Geology (3)
- 50220 Physical Geology (4)
- 50301 Historical Geology (4)
- 50311 Mineralogy-Crystallography (4)
- 50313 Optical Mineralogy (3)
- 50339 Natural Resources and Energy (3)
- 50346 Conservation and Environmental Impact (3)
- 50434 Environmental Surveying Geology (3)
- 50453 Meteorology (1)

Cognate Courses.....28-32 credits

- 15210 Introductory Biology (4)
- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)
- One of the following by advisement:*
- 15301 Field Biology - Fall (3)
- 15302 Field Biology - Winter/Spring (3)
- 15303 Field Biology - Summer (3)
- Two of the following by advisement:*
- 48381 Basic Cartography (4)
- 48382 Remote Sensing (4)
- 48383 Introduction to GIS (3)
- 48483 GIS Applications (3)
- One of the following by advisement:*
- 64241 Introduction to Statistics (3)
- 64251 Calculus I (4)
- One of the following by advisement:*
- 75201 General Physics I (4)
- 75221 Fundamental Physics I (4)

Minor in Geology

18 credits

Required Courses..... 8 credits

- 50220 Physical Geology (4)
- 50301 Historical Geology (4)

Elective Courses.....10 credits

A minimum of ten credits from any of the following:

Geology Courses

- 50305 Paleontology (4)
- 50311 Mineralogy-Crystallography (4)
- 50313 Optical Mineralogy (3)

50314	Petrology (4)
50331	Stratigraphy-Sedimentation (4)
50338	Structural Geology (4)

Environmental Geoscience Courses

50120	Weather and Environment (4)
50205	Environmental Geology (3)
50339	Natural Resources and Energy (3)
50346	Conservation and Environmental Impact (3)
50434	Environmental Surveying (3)

The college also offers an Interdisciplinary minor in Environmental Science. See index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

50100 The Planet Earth (3)

Major events in the development of the earth from a primordial planet to its present-day appearance. Use of the scientific method to study past and present earthquakes, mountain-building processes, origin and evolution of life amid the background of the changing physical environment, continental drift and plate tectonics, and glaciations. Not open to students who are now taking or who have taken 50220. Recommended sequential course is 50110, The Evolving Earth.

50110 The Evolving Earth (3)

Evolution of the physical and biological past of the earth preceding and during human evolution. Present and future problems of the human scene are examined in the light of evolutionary patterns. Although designed as a sequence to 50100, The Planet Earth, the two courses may be taken independently of each other.

50120 Weather and Environment (4)

A non-mathematical introduction to the basic principles of weather and weather forecasting and their effect on man. Laboratory studies of weather maps and related charts.

50205 Environmental Geology (3)

The geological system as a framework for understanding environmental problems; man and his interactions with geological systems. Conservation, utilization, and management of natural resources. Field trips.

50220 Physical Geology (4)

Basic concepts of geology. Minerals, rocks, and rock-forming processes. Geologic time and age dating. Erosion, streams, groundwater, glaciers, geologic structures, earthquakes, plate tectonics, geologic and other geologic processes. Laboratory study of minerals, rocks and maps. Field trips. Recommended sequential course is 50301 Historical Geology.

50301 Historical Geology (4)

Geological and geographic developments of the continents throughout the earth's history, with emphasis on North America. Methods used in calculating the age of our planet, and interpreting the history of its rocks. Evolution of plants and animals through geologic time. In the laboratory, geologic maps and a few common fossils are studied. Local and regional field trips. Prerequisite: 50220.

50305 Paleontology (4)

Principles and methods in the study of fossils; morphology, classification and evolution, ecologic relationships between organisms and sedimentary systems, geographic distribution, and stratigraphic range. Field trips. Prerequisite: 50301 or 15210.

50311 Mineralogy and Crystallography (4)

Basic elements of solid internal and external crystallography and principles of crystal chemistry and geochemistry. Properties, occurrence, geochemistry, and hand specimen identification of the more common economic and rock-forming minerals. Field trips. Prerequisite: 22201 and 50220.

50313 Optical Mineralogy (3)

Theory of the transmission of polarized light through crystalline solids. Use of the polarizing microscope in mineral identification. Optical properties of the common rock-forming minerals. Co-requisite: 50311.

50314 Petrology (4)

Study of the igneous, metamorphic and sedimentary rocks that form the solid earth. Rock composition, classification, distribution and origin. Volcanic, tectonic and other environments of rock formation. Phase diagrams, age dating, and rock chemistry. Laboratory microscope study of thin sections. Field trips. Prerequisite: 22202, 50311, 50313.

50331 Stratigraphy-Sedimentation (4)

Stratified rocks, their formation today as clues to the formation of similar rocks in the past, their local descriptions, their correlation in a regional and world-wide framework, and the principles and methods used in interpreting the geologic history they record. Laboratory and field methods in the study of sedimentation, sedimentary rocks and stratigraphic successions found in outcrops. Prerequisite: 50301 or 50305 and MPL 5.

50334 Principles of Oceanography (4)

The physical, chemical, geological, biological, and economic aspects of the science of oceanography; properties of seawater, ocean dynamics, coastal processes, marine sediments, sea-floor spreading, and continental drift, sea life fisheries, petroleum and the sea, marine technology, etc. Field trips. Laboratory.

50338 Structural Geology (4)

Study of the structure and deformation of the Earth's crust. Includes rock mechanics, faulting, folding, fabric, geometric analysis, diapirism, and tectonics. Laboratories cover geologic map interpretation, use of spherical projections, and field work. Field trips. Prerequisite: 50331 and MPL 5.

50339 Natural Resources and Energy (3)

Relation of the production of energy and its environmental impact on the finite nature of our natural resources. Review and critical evaluation of past, present, and future energy technologies.

50346 Conservation and Environmental Impact (3)

Study of the ways by which man's impact on nature and the environment is assessed and evaluated. Aspects of Environmental Impact Statements that are of significance to environmental geology, including air quality, meteorology, water quality, hydrogeology, land use, waste management, energy use and conservation. Prerequisite: 50205 recommended.

50434 Environmental Surveying Geology (3)

Field-oriented course, includes non-legal surveying, basic principles and elementary methods; the use and application of plane table and transit surveying. Also, introduction to the application and use of topographic, geologic, and soils maps, and aerial photographs. Prerequisite: 50205, 50331, and MPL 5.

50435 Field Geology (4)

Problems and methods of geological field study. Use of the Brunton compass, plane table, alidade, the construction of a geologic map, the solving of a geologic field problem and the writing of a report. Primarily taught in the field. Prerequisite: 50338.

50481 Field Excursion (1-3)

Geology of a selected area of North America. Readings and discussions of the detailed tectonic and petrological evolution of selected classical geologic areas. Field excursions to type areas. May be repeated for credit provided listed topic changes.

50490 Seminar in Geology (2-4)

Current problems and projects in geology. Developing ability to evaluate evidence critically and to understand current geological literature. Prerequisite: PI.

50491 Honor's Research (4)

Individual advanced research in geology. Students are expected to complete a research thesis in consultation with instructor and chair. Prerequisite: 3.00 cumulative average and PC.

50492 Research in Geology (1-4)

Laboratory or field research project to be completed in consultation with a geology faculty member in accord with the department guidelines for research. Prerequisite: PI.

Mathematics

Phone: (845) 257-3532

Location: Faculty Office Building Room E-2

Web address: www.mcs.newpaltz.edu

The major in mathematics provides a strong theoretical background for graduate or industrial work in any area of mathematics. Three concentrations are available: Pure Mathematics, Actuarial Science, and

Computer Science. Students develop a strong mathematical foundation applicable to many fields, the ability to think analytically and make sound judgments and the ability to organize, analyze and interpret numerical data.

The department has adopted the Harvard calculus reform curriculum, which emphasizes that every topic be presented graphically, numerically and algebraically. The graphics calculator is an essential part of Calculus I and II, while Mathematica (a computer program for performing mathematics) is used in some more advanced courses.

In addition to the courses for its own majors, the Department of Mathematics offers a number of service courses tailored to the special needs of students in other programs. These include Elementary and Secondary Education, Physical Sciences and Engineering, Business and General Education. See those listings for specific curricula.

The mathematics curriculum is specifically structured to enable students to establish a firm academic base in mathematical principles before proceeding to advanced study. No course (including a transfer course) in which a pass/fail or a grade of less than C- is received may be used to meet a prerequisite or to satisfy requirements in any major offered by the Department of Mathematics.

Upon entrance to the College, each student is assigned a Mathematics Proficiency Level (MPL or MTH LVL) based on mathematics courses taken in high school or at other colleges. All students are encouraged to take the Mathematics Placement Examination either to improve a previously assigned MPL or to acquire an MPL for the first time. This test is offered at the beginning of each semester and at summer orientation, at times and places listed in the Schedule of Classes. MPLs are used as course prerequisites and to fulfill some General Education requirements.

Majors in Mathematics

52 credits

Required Mathematics Courses.....33 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64260 Foundations of Mathematics I (3)
- 64301 Foundations of Mathematics II (3)
- 64321 Intermediate Analysis I (3)
- 64353 Calculus III (4)
- 64359 Ordinary Differential Equations (3)
- 64362 Linear Algebra (3)
- 64364 Introduction to Abstract Algebra I (3)
- 64381 Probability and Statistics I (3) **Elective Courses.....12 credits**

A total of 12 credits in mathematics or computer science courses at the 300 level or above.

Required Computer Sciences Courses..... 7 credits

- 25210 Computer Science I: Foundations (4)
- 25310 Computer Science II: Data Structures (3)

Mathematics majors who need to fulfill their GE Physical and Biological Sciences requirement (Category D), must do so with Laboratory Options. 75201, General Physics I, and 75202, General Physics II, are strongly recommended.

Math Proficiency Levels (MPL) Fact Sheet: How to get a level.

<i>MPL</i>	<i>How to acquire one.</i>
0,1 or 2	If the College doesn't know what MPL to assign; you will automatically get one of these numbers or a blank. *A score lower than 16 on the Basic Algebra Placement Exam.
3	*75% on Sequential III Regents Exam or 80% in course *600 or better in SAT Math Test. *C- in Basic Algebra (64050) at New Paltz *At least 16 correct on Basic Algebra Placement Exam *From 9 - 13 correct on College Algebra Placement Exam
4	*Score of 55 in CLEP College Algebra Exam *C- in College Algebra (64152) at New Paltz *At least 14 correct on College Algebra Placement Exam *From 11 to 16 correct in PreCalculus Placement Exam
5	*Score 3 on AB form of Math-Calculus AP Exam *Score 55 in CLEP College Algebra/Trigonometry Exam *C- in college level course "PreCalculus" in title *C- in PreCalculus (64181) at New Paltz *At least 17 correct on PreCalculus Placement Exam
6	*Score 4 or 5 on AB form of Math-Calculus AP Exam *Score 3 on BC form of Math-Calculus AP Exam *Score 55 on CLEP Calculus w/Elem. Functions Exam *C- in college level course with "Calculus I" in title *C- in Calculus I (64251) taken at New Paltz
	Transfer courses must be evaluated individually.

Minor in Mathematics

20 credits

Required Courses*.....11 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64260 Foundations of Mathematics I (3)

Electives*..... 9 credits

Three upper-division mathematics electives.

** Among these six courses there must be at least two not required in the student's major.*

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

64050 Basic Algebra (0)

Rudiments of algebra and methods of solving word problems. Topics include exponents, algebraic expressions, equations in one or two variables. Credits earned do not count toward graduation. Prerequisite: MPL 2.

64104 Mathematics of Chaos (3)

An analytic skills course in which students use a computer to investigate the strange behavior of simple dynamical systems. Explores offbeat mathematical ideas, some of which result in extraordinarily beautiful computer generated images. Prerequisite: MPL 3.

64111 Graphs, Shapes and Patterns (3)

General Education/Analytic Skills course for non-math/science majors. Topics chosen from graph theory, linear programming, scheduling, geometric growth and forms, distance measures, patterns, symmetries, tilings. Prerequisite: MPL 3.

64112 Statistics and Social Choice (3)

General Education/Analytic Skills course for non-math/science majors. Topics chosen from data representations, probability, statistical inference, coding schemes, decision making, voting, game theory. Prerequisite: MPL 3 or C- in 64110.

64140 Mathematics for Elementary School Teachers (3)

First course of a two-semester sequence covering problem solving, numeration, number theory, relations, functions, integers, rational and real numbers, statistics, probability, and the use of the calculator. Open to students seeking New York State certification in Elementary Education. Prerequisite: Pre-K-6 curriculum and C- in 64050 or MPL 3.

64152 College Algebra (3)

Factoring, multiplying and dividing algebraic expressions, coordinate geometry, functions and functional notation, polynomials, exponents, logarithms, and inequalities. Primarily preparation for more advanced courses, but also open to students desiring a background in college algebra. Prerequisite: C- in 64050 or MPL 3.

64181 Pre-Calculus Mathematics (3)

Topics needed for the study of calculus: brief review of algebra; exponential and logarithmic functions; trigonometry; binomial theorem; remainder and factor theorems; mathematical induction; sequences; series; introduction to complex numbers. Prerequisite: C- in 64152 or MPL 4.

64240 Geometry: A Modern Introduction (3)

Second course of a two-semester sequence covering problem solving, logic, analysis of geometric shapes and solids, measurement, congruence, similarity, constructions, coordinate geometry, transformations, programming in LOGO, and the use of the calculator. Open only to students seeking New York State

certification in Elementary Education. Prerequisite: Pre K-6 curriculum and C- in 64140.

64241 Introduction to Statistics (3)

Descriptive statistics, measure of central tendency and dispersion, population parameters and sample statistics, use of probability distributions for statistical inference, binomial and normal distributions, introduction to hypothesis testing. Designed for non-mathematics majors. Not open to students who have taken 64381 or 64382. Prerequisite: C- in 64152 or MPL 4.

64245 Basic Calculus (4)

Survey of calculus useful to students of business, information science, and the social and biological sciences. Differentiation and integration of polynomial, rational, exponential, and logarithmic functions. Emphasis on techniques and applications, chosen from such fields as economics, psychology, and biology. This course does not give sufficient preparation for Calculus II. Students planning to continue their study of calculus are advised to register for Calculus I. Prerequisite: C- in 64152 or MPL 4.

64251 Calculus I (4)

The first of a two-semester sequence introducing the differential and integral calculus of functions of one variable, limits and continuity, differentiation, mean value theorem, extrema, integration, fundamental theorem of the calculus; methods of antidifferentiation, applications. Prerequisite: C- in 64181 or MPL 5.

64252 Calculus II (4)

The second of a two-semester sequence introducing the differential and integral calculus of functions of one variable, limits and continuity, differentiation, mean value theorem, extrema, integration, fundamental theorem of the calculus; methods of antidifferentiation, applications. Prerequisite: C- in 64251 or MPL 6.

64260 Foundations of Mathematics I (3)

Focus on basic principles of logic, set theory, functions, and the development of mathematical reasoning. Introduction to basic techniques in writing proofs. Prerequisite: C- in 64181 or MPL 5.

64301 Foundations of Mathematics II (3)

Builds upon mathematical concepts and skills introduced in 64260 with a primary focus on the clear writing of mathematical arguments. Emphasis on deductive thinking and strategies for proving theorems. Topics include set theory, logic, mathematical induction, recursion. Prerequisite: C- in 64251 and 64260.

64310 Elementary Number Theory (3)

Introductory study of integers. Axiomatic approach to order and divisibility property, prime distributions, modular arithmetics, perfect numbers and other topics. Prerequisite: C- in 64301 or 64360.

64311 Introduction to Set Theory (3)

Informal axiomatic set theory; the algebra of sets, relations and functions; equivalence relations; ordering relations and order types; well ordering relations and ordinal numbers; cardinal numbers; the notion of infinity and large cardinal numbers; the axiom of choice and the continuum hypothesis. Prerequisite: C- in 64301 and 64362.

64312 Introduction to Mathematical Logic (3)

Mathematical development of the first-order predicate calculus with emphasis on its meta-theory. The soundness and completeness of first-order logic; first order theories; applications to the elementary theories of orderings, groups, rings, integral domains, fields, lattices, and Boolean algebra. Prerequisite: C- in 64301 and 64362.

64321 Intermediate Analysis I (3)

A study of the theoretical foundations of elementary calculus: careful treatment of the concepts of limit and least upper bound; sequences of real numbers; continuity; differentiability; integrability; classical theorems of calculus such as the Mean Value Theorem and the Fundamental Theorem of calculus. Prerequisite: C- in 64301 and 64353.

64322 Intermediate Analysis II (3)

Series of real numbers; sequences and series of functions; uniform convergence; power series; Taylor Series, additional topics as chosen by the instructor. Prerequisite: C- in 64321.

64331 Axiomatic Geometry (3)

Geometry from a modern axiomatic standpoint, covering incidence, and betweenness, and emphasizing congruence and transformations. Prerequisite: C- in 64301 or 64363.

64332 Modern Geometry (3)

Euclidean and non-Euclidean geometries. Consistency proofs and Euclidean constructions. Prerequisite: C- in 64331 or PI.

64353 Calculus III (4)

Brief introduction to analytic geometry of 3-space. Real-valued functions of more than one variable. Partial derivatives, multiple integrals, line integrals, and applications. (See 64383 Calculus IIIA.) Prerequisite: C- in 64252.

64359 Ordinary Differential Equations (3)

Methods of solution of homogeneous and non-homogeneous linear differential equations. Power series and Laplace transform methods. Non-linear equations of order one. Applications. Prerequisite: C- in 64252.

64360 Logic and Computability (3)

Advanced topics in discrete mathematics of special relevance to computer science; e.g. natural deduction, resolution and completeness of both; Turing machines, recursive languages and their equivalence; computational complexity and non-computability. Prerequisite: C- in 64363 or 64301 and C- in 25310.

64362 Linear Algebra (3)

The algebraic structure of Euclidean n -space and finite dimensional vector spaces. Linear transformations, matrices, determinants, linear equations. Norm, inner product, and orthogonality. Prerequisite: C- in 64353.

64363 Combinatorics (3)

Counting arguments in different settings and their relation to probability. Functions, relations and, in

particular, graphs and trees. Prerequisite: C- in 64260 or 25310.

64364 Introduction to Abstract Algebra I (3)

Elementary theory of groups and rings, integral domains and fields. Prerequisite: C- in 64301 and 64362.

64365 Introduction to Abstract Algebra II (3)

Elementary theory of groups and rings, integral domains and fields. Prerequisite: C- in 64364.

64375 Numerical Methods (3)

Computer solution of mathematical problems; round-off errors and computer arithmetic, solution of equations, interpolation and approximation, numerical differentiation and integration, direct and iterative techniques in matrix algebra. Prerequisite: C- in 64385 or 64362, 25210.

64382 Probability and Statistics II (3)

Introduction to probability theory and statistics. Random variables; distribution functions; expected value and moments; sampling; point estimation; interval estimation; hypothesis testing. Prerequisite: C- in 64381 and either 64353 or 64383.

64384 Calculus IV (3)

Fourth semester covering differential and integral calculus. Emphasizes line and surface integral theorems, sequences, and series. Credit cannot be obtained for both this course and 64383. Prerequisite: C- in 64353.

64385 Linear Algebra and Systems of Differential Equations (3)

Covers much of the material in 64362 and emphasizes applications to linear systems of differential equations, for the benefit of engineering students. Credit cannot be obtained for both this course and 64362. Prerequisite: C- in 64359.

64386 Engineering Mathematics (3)

Phase plane, critical points of non-linear ordinary differential equations; Fourier series, boundary value problems; partial differential equations; separation of variables for the heat conduction, wave and Laplace's equation. Elementary functions of a complex variable. Prerequisite: C- in 64359 and either 64362 or 64385.

64475, 64476 Topics in Analysis I, II (3 each)

Topics as chosen by instructor and indicated in course schedule. Topics may include: special functions, Fourier analysis, integral equations, etc. Prerequisite: PI.

64481, 64482 Topics in Algebra and Foundations I, II (3 each)

Topics as chosen by instructor and indicated in course schedule. Topics may include: universal algebra, group theory, structures of rings, lattice theory, Galois theory, axiomatic set theory, formal systems, etc. Prerequisite: PI.

64487 Complex Function Theory (3)

Complex numbers, analytic functions, Cauchy-Riemann equations, harmonic functions; complex transcendental functions; Cauchy integral theorem; Taylor and Laurent series, residues and poles; conformal mapping; applications to heat conduction, electrostatic potential and fluid flow. Prerequisite: C- in 64386 or PI.

64488 Partial Differential Equations (3)

Classification of linear second order partial differential equations (PDE), diffusion-type problems, Fourier sine and cosine transforms. Laplace transform solutions, method of characteristics, elliptic-type problems, Green's functions, numerical and approximate methods. Prerequisite: C- in 64386 or PI.

Physics

Phone: (845) 257-3740

Location: Wooster Science Building Room 102

Web address: www.newpaltz.edu/physics

The Physics program at New Paltz offers students three ways to earn a degree in Physics. All students complete a three-year sequence consisting of core and cognate courses. Students can take a fourth year of physics electives, or opt for an approved second major to earn the degree in Physics. Those students in an approved external 3-2 engineering program get the Physics degree from New Paltz upon completion of the requirements for the engineering degree.

Freshmen ready to take Calculus must take 64251, 25210, and 22201 in their first semester in order to be on track for the major. Prospective physics majors are strongly urged to consult with their physics advisor immediately upon admission to the College. Failure to seek early advice can cause delay in completing the requirements. Physics minors, too, will benefit from early advice.

The Department also offers several general interest non-major courses. These courses do not require a background in high school physics, nor do they require knowledge of high level mathematics. However, some high school algebra is helpful.

Major in Physics

46-58 credits

Required Physics Courses.....30 credits

- 75201 General Physics I (4)
- 75202 General Physics II (4)
- 75300 Mathematical Physics I (3)
- 75301 Mathematical Physics II (3)
- 75305 Computational Physics (3)
- 75308 Modern Physics I (3)
- 75309 Modern Physics II (3)
- 75310 Modern Physics Laboratory (1)
- 75311 Mechanics (3)
- 75313 Electricity and Magnetism (3)

Required Cognate Courses.....16 credits
22201 General Chemistry I (4)
25210 Computer Science I: Foundations (4)
64251 Calculus I (4)
64252 Calculus II (4)

Required Option: A, B, or C:

- A: Advanced Physics Courses: 75491 (Physics Senior Project) plus three approved electives.
B: External/Internal 3-2 Engineering Program.
C: Approved Second Major.

Minor in Physics

18 credits

Each minor candidate is expected to complete 18 credits in physics at the 200 level or above with a minimum cumulative average of 2.00 for the courses taken. At least 6 credits must be at the 300 level or above.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies and Procedures" in the Student Advising Handbook.

No 100-level courses may be included in the physics major.

75100 Physics for Poets (3)

A course in basic physics for non-science majors that stresses conceptual understanding of familiar (and not so familiar) phenomena. Mathematical formalism is held to a minimum, although some elementary algebra is helpful. Prerequisite: C- in 64050, or MPL 3.

75101 The Scientific World (3)

Science for non-majors. The course emphasizes critical thinking about personal and social needs for science. Specific topics illustrate purpose and thoughts in science: classical physics, quantum physics, astronomy, chemical bonding, geology, weather, living cell, genetics, evolution. Prerequisite: C- in 64050 or Math Proficiency Level 3.

75109 Physics of Sound and Music (3)

Nature, transmission, and absorption of sound; speech; hearing; music; noise; musical instruments and amplifying systems; rooms and auditoriums; sources of noise and noise pollution; noise codes; control of noise; and practical means of noise reduction.

75201 General Physics I (4) (3 hr. lec., 3 hr. lab/rec.)

Basic principles of mechanics, wave motion, and thermodynamics using vector analysis and calculus. Primarily for students majoring in physics, engineering, mathematics, and chemistry; students majoring in biology and geology should consult their advisor if they wish to take this course in preference to 75221. Prerequisite: 64251 or PC.

75202 General Physics II (4) (3 hr. lec., 3 hr. lab/rec.)

Basic principles of electricity, magnetism, and optics using vector analysis and calculus. Primarily for students majoring in physics, engineering, mathematics, and chemistry; students majoring in biology and geology should consult their advisor if they wish to take this course in preference to 75222. Co-requisite: 75204. Prerequisite: 75201.

75203 General Physics I Workshop (0)

Problem-solving course to be taken concurrently with 75201 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Co-requisite: 75201.

75204 General Physics II Workshop (0)

Problem-solving course to be taken concurrently with 75202 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture materials. Co-requisite: 75202.

75221 Fundamental Physics I (4) (3 hr. lec., 3 hr. lab/rec.)

An algebra-based introduction to particle mechanics, rigid-body and continuous matter motion, fluid mechanics, wave motion, structure of matter and thermodynamic principles. Co-requisite: 75223. Prerequisite: 64152 or equivalent.

75222 Fundamental Physics II (4) (3 hr. lec., 3 hr. lab/rec.)

An algebra-based introduction to electricity, magnetism, electromagnetic waves, optics, relativity, quanta, Bohr atom, complex atom, ions and molecules, solid state, nucleus, nuclear transformation, and elementary particles. Co-requisite: 75224. Prerequisite: 75221.

75223 Fundamental Physics I Workshop (0)

Problem-solving course to be taken concurrently with 75221 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Co-requisite: 75221.

75224 Fundamental Physics II Workshop (0)

Problem-solving course to be taken concurrently with 75222 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Co-requisite: 75222.

75300 Mathematical Physics I (3)

A study of the differential equations, linear algebra, and vector calculus in the context of the physical problems in which they arise. Computational techniques are used where appropriate. Prerequisite: 64252

75301 Mathematical Physics II (3)

A continuation of Mathematical Physics I. Fourier series, partial differential equations, and complex analysis, all discussed in the context of the physical problems in which they arise. Computer techniques are used where appropriate. Prerequisite: 75300.

75305 Computational Physics (3)

Introduction to numerical techniques -- root finding, integration, matrix manipulations, differential equations. Numerical simulations -- oscillations, space flight, electric fields, linear and non-linear waves, crystal growth. Prerequisite: 64359 and 75202.

75308 Modern Physics I (3)

An introduction to the physics of atoms, starting with the origin of the quantum theory. Extensive discussion of the hydrogen atom. Other topics chosen from solid state physics, statistical physics, and nuclear physics if time permits. Computational techniques are used where appropriate. Prerequisite: 75202

75309 Modern Physics II (3)

A continuation of Modern Physics I, covering special relativity and other topics chosen from atomic physics, nuclear physics, statistical physics, and solid state physics. Computational techniques are used where appropriate. Prerequisite: 75308.

75310 Modern Physics Laboratory (1)

A laboratory course demonstrating the principles of Modern Physics (75309). Required for Physics majors.

75311 Classical Mechanics (3)

An intermediate level course in Newtonian mechanics. Linear and angular motion, conservation laws, Lagrangian and Hamiltonian formulations. Computational methods are used where appropriate. Prerequisite: PI or 75300.

75313 Electricity and Magnetism (3)

Laws of electricity and magnetism and their applications using vector analysis and computational techniques. Differential forms of Maxwell's equations. Prerequisite: 75202, 75301 and 75305.

75315 Engineering Mechanics (4)

A study of static and dynamic force systems. Vector and conventional techniques are used in problem solving. Properties of force systems, free body analysis, properties of area and mass, friction, kinematics and kinetics of particles and rigid bodies, energy and momentum method. Both English and SI units are used. Prerequisite: 64252 and 75201.

75322 Optics (3)

Geometrical and physical optics including thick lenses, polarization, coherence, interference and diffraction; propagation in crystals; non-linear optics; photon statistics; radiation pressure; electro-optics; gas crystals; semi-conductor laser. Prerequisite: 75209.

75331 Quantum Physics (3)

Origin of Planck's quantum hypothesis and its later development through the deBroglie wave-particle duality to the modern quantum mechanics of Schroedinger and Heisenberg. Principles of correspondence, complementarity, and uncertainty. Application of quantum mechanics to basic problems such as the time-independent Schroedinger Equ., hydrogen atom and spin phenomena. Prerequisite: 75213, 75301, and 75311.

75402 Fluid Mechanics (3)

Fundamental physical characteristics, fluid statics; kinematics; flow of incompressible, compressible, and real fluids. Theory of models as applied to physical systems and development of several models of fluids. Prerequisite: 75202 and 75301, or PI.

75411 Quantum Physics I (3)

An upper level quantum mechanics course for students who have completed the physics core. The course begins with the postulates of quantum mechanics, continues with a detailed discussion of one-dimensional problems, and ends with a rigorous treatment of the hydrogen atom. Computer techniques are used where appropriate. Prerequisite: 75301, 75309, 75313.

75412 Quantum Physics II (3)

A continuation of 75411. Spin, angular momentum, WKB methods, perturbation theory, scattering theory, Dirac equation. Prerequisite: 75411.

75422 Thermodynamics (3)

Basic laws of thermodynamics. Conditions of equilibrium equations of state, Euler equation. Gibbs-Duhem relations, thermodynamic potentials, and the Nernst Theorem. Prerequisite: 75202 and PI.

75424 Advanced Laboratory (2)

Selected experiments (5-8) picked from various areas -- mechanics, optics, quantum mechanics, electronics, fluid mechanics, solid state physics, and nuclear physics. Emphasis on individual work. Prerequisite: PI.

75429 Solid State Physics (3)

Crystals: Binding, symmetries, diffraction, reciprocal lattice, defects. Lattice dynamics: Phonons, modes, specific heat, thermal conduction. Metals: Free electron theory, band theory, superconductivity. Semiconductors: Fermi-Dirac Statistics, transport, band shapes, p-n junction, electronic devices. Prerequisite: 75309 and PI.

75432 Atomic and Nuclear Physics (3)

Elementary quantum mechanics applied to multielectron atoms, identical particles, magnetic effects and nuclear systems. Quantum nature of elementary particles. Selections from quantum statistics, solid state physics, superconductivity and magnetic properties of solids according to class interest. Prerequisite: 75309 and PI.

75491 Physics Senior Project (3-6)

Project may be either experimental or theoretical physics by arrangement with a physics faculty advisor for a maximum of 6 credits starting in the fall of the senior year. Plan must be approved in the prior semester by chairperson.

75492 Physics Senior Project Continuation (1-3)

Continuation of senior project. Student must have completed 75491 and have approval of chairperson.