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an advanced degree as a full-time student, or as a part-time student while working in his or her chosen career.

Required Prerequisites (5 Credits)		5
MATH119	Computer Algebra System	1
MATH121	Analytic Geometry & Calculus I	4
or		
MATH184	Analytic Geometry & Calculus I	4
MATH 121 & 184 satisfy the General Education Requirement		
Major Discipline Requirements		33
MATH122	Analytic Geometry & Calculus II	4
MATH221	Analytic Geometry & Calculus III	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4
One Course One Course From:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
An Additional 4 credits of Mathematics or CS Electives		4
**Mathematics electives are Math or CS courses numbered 200 and above. The following courses cannot be credited toward fulfillment of the mathematics major requirements: Math 101, 102, 111, 115, 120, 141, 150, 190, 271, 272, 302, 303; CS 193, 194		
Mathematics Electives (12 Credits) All mathematics majors must complete at least three additional advanced mathematics or CS courses, to make a total of at least 36 credits, in one of the required areas of specialty:		
A. Actuarial Mathematics & Operations Research Area:		
MATH210	Probability & Statistics I	4
MATH211	Probability & Statistics II	4
MATH313	Operations Research	3
One Course From		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
Also recommended are: CS 172 and Mathematics 243, 321 and 410. The Mathematics Department also suggests, but not required, that Actuarial Mathematics		

students complete at least two examinations provided by the Society of Actuaries before graduation.		
B. Applied Mathematics Area		
MATH210	Probability & Statistics I	4
MATH211	Probability & Statistics II	4
MATH223	Differential Equations & Dynamical Systems	3
One Course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
C. Computing Area:		
MATH225	Discrete mathematical Structures	4
CS291	Computer Science II	4
CS341	Algorithms & Data Structures	4
D. General Area		
MATH223	Differential Equations & Dynamical Systems	3
MATH225	Discrete Mathematical Structures	4
MATH311	Mathematics Methods for Physical Science	4
or		
MATH432	Advanced Calculus	4
One Course From		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
E. Mathematics Education Area:		
MATH210	Probability & Statistics I	4
MATH225	Discrete Mathematical Structures	4
MATH479	History & Philosophy of Mathematics	1
One Course From the Following:		
MATH243	Combinatorial & Discrete Geometry	3
MATH244	Geometric Structures	3

Mathematics (Minor)

The minor in Mathematics is intended to encourage non-math majors to take the courses they need in order to prepare for graduate programs in fields such as computer science, finance, and business administration.

Required Courses		
MATH122	Analytic Geometry and Calculus II *	4
MATH333	Linear Algebra *	4
	Plus two other 4-credit mathematics courses at the 200-level or higher which are acceptable for the Mathematics Major	8

Notes: Mathematics 122 has a prerequisite of Math 121 or Math 184 which may be used to satisfy the General Education Requirement.

* Students whose majors require Math 122 and/or Math 333 must substitute 4 credit mathematics courses at the 200-level or higher which are acceptable for the mathematics major. No course can be used to satisfy more than one requirement.

Department of Performing and Fine Arts

Amrhein, Timothy, Associate Professor and Chair

Buxenbaum Jones, Nina, Associate Professor

Corkery, Timothy, Lecturer

Gieseler, Carly, Assistant Professor

Gillespie, Sarah, Assistant Professor

Marion, Thomas, Assistant Professor

Metcalfe, Eric, Assistant Professor

Smith, Michael, Assistant Professor

Zlabinger, Thomas, Lecturer

Academic Computing (Special Program)

The Academic Computing program offers courses in computer literacy. The computer literacy courses are designed to serve the needs of all students at York College. Their objectives are to enable the students to understand the computer system and associated operating systems, to use word processing and graphics software to develop essays as well as research papers, and to develop an understanding of the basic terminology of computer technology, network, and operations, to navigate the World Wide Web, and to use multimedia presentations to enhance their academic endeavors. The Academic Computing program is also designed to enable students to learn to use spreadsheet software for modeling, budgeting, planning, and other "what if" projections, to use both spreadsheet and

database software, to use both presentation and web design software and to understand the impact of the Internet on business, education, human services, public administration and life as a citizen.

AC101	Introduction to Microcomputers I	1
AC102	Introduction to Microcomputers II	1
AC201	Computer Applications	3
AC230	Teaching with Multimedia Technology	2

Art History (BA)

HEGIS Number 1003

The Art History major is designed for the student seeking to explore the art of past civilizations as well as contemporary art forms. Through a diversified program of professional quality, the student becomes familiar with problems concerning the evolution of style, the function of art in a society, and the way in which art is influenced by contemporary events. After completing the prerequisite for all advanced art history courses, Fine Arts 104, Introduction to Fine Arts, the student may select from a variety of course offerings. The Art History major is flexible and aims to satisfy whatever plans the student has for graduate or professional work.

Major Discipline Requirements		45
I. Required Course		3
FA104	Introduction to Fine Arts	3
II. Choose Eighteen credits from the following		18
FA290	Ancient Art	3
FA291	Art of Medieval Europe	3
FA292	Early Renaissance Art	3
FA293	Visual Studies of the Urban Environment	3
FA294	Northern Renaissance Art	3
FA296	African Art	3
FA297	History of Still Photography	3
FA298	Twentieth-Century Trends in Photography	3
FA303	Film History: Style & Imagination I	3
FA304	Film History: Style & Imagination II	3
FA325	Women Artists	3
FA390	High Renaissance and Late Sixteenth- Century Art	3
FA391	Baroque and Rococo Art	3
FA392	Nineteenth-Century Art	3
FA393	American Art to 1913	3
FA394	Twentieth-Century Art in the United States	3
FA395	Latin-American Art	3
FA398	Afro-American Art	3
FA402	Media, Culture and the Visual Arts	3
FA475	Special Studies Seminar	3

FA476	Special Studies Seminar: Selected Topics in Art History	3
FA477	Special Studies Seminar: Selected Topics in Art History	3
FA478	Special Studies Seminar: Selected Topics in Art History	3
FA479	Special Studies Seminar: Selected Topics in Art History	3
FA490	Twentieth-Century Art	3
III.		6
FA499	Research in Art History	3
IV. Nine credits chosen from Art Studio Major Requirements, Sections I, II, and III		9
V. Foreign Language*		6
VI. Electives**		6

* Twelve credits in a foreign language are usually required for admission into graduate programs in Art History.

** Elective credits should be taken in one or more of the following fields: Classics, Fine Arts, Foreign Language, History, Literature, Music, Philosophy, and Speech.

Note: At least 90 Liberal Arts credits are required.

Communications Technology (BS)

HEGIS Number 0605

The York College Communications Technology major is an interdisciplinary program bringing together television, web, information systems, computer science, and design. The program offers three main concentrations: digital video, computer graphics, and systems & applications. Our majors are prepared for a variety of career opportunities in a variety of production environments.

The majority of CT classes are project-based. Students create documentaries, graphics packages, multi-camera television shows or market work through social networks. In addition, students are kept abreast of emerging industry workflows. Every project becomes an opportunity to showcase work in a portfolio.

One of the unique attributes of the CT program is how web-based portfolio building is embedded within the major. Every student in the major builds a work-in-progress portfolio for every project-based class. Each class portfolio becomes a storehouse of the students' work and their process with critique from faculty and peers. Upon reaching their senior year, students will have an abundance of work to reflect on and choose from to build their final portfolio to showcase and start their career.

New York City is the media capital of the world, and students have unique access to quality internships year round. Communication Technology majors have interned with a number of organizations including: NY1, NFL Films, MTV, VH1, SNY, and Silver Cup Studios.

A significant number of our majors are in our highly successful Digital Video concentration – a non-fiction television production program. From the beginning, students are taught to focus on storytelling and access to story as they build technical expertise in production and post-production. The preparedness of our graduates is reflected in their success stories. Students in the digital video concentration have been published in media journals, become web sensations, gone to graduate school, work in film, television, news and more.

Major Discipline Requirements		47-51
Basic Requirements		25-26
AC101	Introduction to Microcomputers	0-1
CS172	Computer Science I	4
CT101	Introduction to Video	3
CT201	Foundations in Communications Technology	3
CT205	Principles of the Moving Image	3
CT244	Multimedia Sound Production	3
FA284	Computer Graphics I	3
HIST373	The History of Technology	3
Choose one of the Following		
JOUR282	Introduction to Writing Broadcast News	3
ENG384	Writing for Electronic Media	3
Area Requirements Students may select Digital Video, Computer Graphics, or Systems and Applications Concentrations		9-11
Digital Video Concentration		9
CT240	Studio Television Production	3
CT345	Introduction to Motion Graphics	3
CT355	Documentary Production	3
Computer Graphics Concentration		9
CT360	Principles of Web Publishing	3
CT381	Advanced Web Design	3
FA384	Computer Graphics II	3
Systems and Applications Concentration		11
CS261	Data Communications I	4
CT370	Web Programming	3
MATH225	Discrete Mathematical Structures	4
Major Electives Select two courses based on student's concentration from the following		6-8
CT380	Webcasting	3
CT385	Multimedia Interface Design	3
CT390	Online Communities	3
CT391	Telecommunications in Transition	3
CT415	Special Topics – Production	3

CT416	Special Topics – Production	3
CT417	Special Topics – Production	3
CT418	Special Topics – Production	3
CT419	Special Topics – Production	3
CT425	Special Topics – Seminar	3
CT426	Special Topics – Seminar	3
CT427	Special Topics – Seminar	3
CT428	Special Topics – Seminar	3
CT429	Special Topics – Seminar	3
CS292	Introduction to Database Management	4
CS361	Data Communications II	4
SPCH203	Ethics and the Freedom of Speech	3
SPCH350	Persuasion and Propaganda in Television	3
Senior Requirements		7
CT399	Portfolio Design	1
CT401	Final Project/Senior Seminar	3
CT490	Internship	3
CT491	Internship	3

Communications Technology (Minor)

Knowledge and skills in communications technology are central to careers in all fields in the technological and Internet-based world. Courses in communications technology provide students with specific skills and technical knowledge that, in turn, enhance their chances of finding employment. Students majoring in Arts, Business, Education, English, and Journalism would be especially more competitive with completion of a minor in Communications Technology.

Communications Technology Minor		16
Required Courses		13
AC101	Introduction to Microcomputers I	1
CT101	Introduction to Video	3
CT201	Foundations in Communications Technology	3
CT244	Multimedia Sound Production	3
FA284	Computer Graphics I*	3
Elective Courses		3
CT205	Principles of the Moving Image	3
CT240	Studio Television Production	3
CT345	Advanced Digital Video	3
CT355	Video Documentary Production	3
CT360	Principles of Web Publishing	3

*Students are required to take the prerequisite course Fine Arts 150 as part of their General Education Requirements.

Music (BA)

HEGIS Number 1005

The curriculum in music is designed to meet the needs of students preparing for careers in performance history, theory, ethnomusicology, and music education. Music majors are required to give a recital (or equivalent) their last semester at the college as their MUS 490: Independent Study.

Students are encouraged to take such non-music courses as: Fine Arts 398; History 110, 201, and 272; Political Science 101; and Sociology 101.

The Performing & Fine Arts Digital Lab (1A01) is a state-of-the-art facility equipped with computers, synthesizers, and sound sampling. The Lab is made available to students enrolled in Music 225: Computer Music.

EFFECTIVE FALL 2012		
Major Discipline Requirements		40
Required Music Courses		23
MUS210	Ear Training I	2
MUS223	Harmony	3
MUS225	Computer Music	3
MUS270*	Introduction to Ethnomusicology (WI)	3
MUS291	Keyboard Harmony	1
MUS310	Ear Training II	2
MUS323	Form & Analysis	3
MUS350	History of Western Music I (WI)	3
MUS351	History of Western Music II	3
REQUIRED ELECTIVES: CHOOSE ONE FROM EACH OF THE 17 FOLLOWING GROUPS		
Ensemble I		2
MUS131	Gospel Choir I	2
MUS139	Jazz Ensemble I	2
MUS146	Jazz Improvisation I	2
Ensemble II		
MUS231	Gospel Choir II	2
MUS239	Jazz Ensemble II	2
MUS246	Jazz Improvisation II	2
Popular Music History		
MUS250	African-American Music	3
MUS253	History of Jazz	3
Ensemble III		
MUS331	Gospel Choir III	2
MUS339	Jazz Ensemble III	2
Ensemble IV		
MUS431	Gospel Choir IV	2
MUS439	Jazz Ensemble IV	2
Upper Level Electives		

MUS420	Instrumentation	3
MUS422	Conducting	3
MUS425	Composition	3
MUS461	Jazz Style & Techniques	3
Senior Year Requirement		
MUS490	Independent Study	3

* MUS 270 is cross listed with ANTH 270. Either course will be accepted.

NOTE: Majors in Music must fulfill their Performance and Fine Arts General Education Requirement in a discipline other than music.

Music (Minor)

EFFECTIVE FALL 2012		
Music Minor		
Required Credits		15
MUS210	Ear Training I	2
MUS223	Harmony	3
MUS225	Computer Music	3
CHOOSE ONE COURSE FROM EACH OF THE FOLLOWING GROUPS		6
Ensemble I		
MUS131	Gospel Choir I	2
MUS139	Jazz Ensemble I	2
MUS146	Jazz Improvisation I	2
Ensemble II		
MUS231	Gospel Choir II	2
MUS239	Jazz Ensemble II	2
MUS246	Jazz Improvisation II	2
MUSIC HISTORY/ETHNOMUSICOLOGY		
MUS253	History of Jazz	3
MUS270*	Introduction to Ethnomusicology (WI)	3
MUS350	History of Western Music I (WI)	3
MUS351	History of Western Music II	3

* MUS 270 is cross listed with ANTH 270. Either course is accepted.

Speech Communication and Theatre Arts (BA)

HEGIS Number 1506

Speech Communication and Theatre Arts majors who take Speech Communication 101 as part of the College General Education requirement may not apply those credits to the major.

EFFECTIVE FALL 2012		
Major Discipline Requirements		33
Required Speech Communication and Theatre Arts Courses		12
SPCH182	Voice and Diction	3
TA210	History of Theatre	3
TA211	Basic Acting	3
SPCH303	Ethics & the Freedom of Speech	3
Speech Communication/Theatre Arts Choose one of the following		
SPCH490	Independent Research	3
TA490	Independent Research	3
III. Speech Communication/Theatre Arts Electives		18
Students must concentrate in either Speech Communication or in Theatre Arts and complete at least twelve of their eighteen elective credits in the Concentration that they have declared. (A total of 12 credits of Speech Comm/TA coursework must be at the 300-level or higher.)		

NOTE: Although Speech Communication students may take as much Theatre Arts practica as they please, no more than 6 credits of Theatre Arts practica may be applied toward the fulfillment of the Speech Communication Concentration; however, Theatre

Arts students may apply 9 credits of Theatre Arts Practica toward the fulfillment of the Theatre Arts Concentration. Theatre Arts practica courses currently include TA215-19.

*All Speech Comm/TA majors must take SPCH 101 as a Prereq for completion of the Major.

Majors in Speech Communication/Theatre Arts must fulfill their General Education Requirements in a discipline other than their major.

Studio Art (BA)

HEGIS Number 1002

The Studio Art major is designed to develop the student's competence and productivity in at least one area of concentration, such as painting, sculpture, photography or computer graphics. This major anticipates the growth of each student's potential through a broad variety of work and study experiences. Outlining professional as well as practical avenues of involvement, the major seeks to intensify personal motivation in art through the development of perceptual

and imaginative capabilities.

All courses offer a group oriented curriculum that requires an intense work habit and an open spirit of investigation. Advanced projects, guided within courses at the junior and senior levels, emphasize a clarification of personal vision through concentrated studies. After completing basic courses in free-hand drawing, painting, sculpture and design, Fine Arts 155, 264, 150 and 152 respectively, which develop perception and formal competence, students may choose from a variety of courses to complete other requirements for the major. All art studio classes require a minimum of 4 hours outside work per week.

Major Discipline Requirements		45
I. Six credits chosen from the following:		
FA150	Visual Design: Two-Dimensional	3
FA151	Color	3
FA152	Visual Design: Three-Dimensional	3
II. Six credits chosen from the following:		
FA283	Visual Communication Media I	3
FA284	Computer Graphics I	3
FA381	Photography I	3
FA382	Photography II	3
FA383	Visual Communication Media II	3
FA384	Computer Graphics II	3
FA385	Film Making I	3
FA386	Film Making II	3
FA481	Photography III	3
FA482	Photography IV	3
FA488	Video I	3
FA489	Video II	3
III. Twelve credits chosen from the following:		
FA155	Drawing I	3
FA253	Graphic Design I	3
FA254	Graphic Design II	3
FA258	Graphics I , Printmaking	3
FA264	Painting I	3
FA265	Painting II	3
FA273	Sculpture I	3
FA274	Sculpture II	3
FA284	Computer Graphics I	3
FA355	Drawing II	3
FA358	Graphics II	3
FA364	Painting III	3
FA365	Painting IV	3
FA373	Sculpture III	3
FA374	Sculpture IV	3
FA384	Computer Graphics II	3
FA444	Advanced Studio I	3
FA445	Advanced Studio II	3
FA455	Advanced Drawing I	3

FA456	Advanced Drawing II	3
FA463	Painting V	3
FA464	Painting VI	3
FA465	Special Studies: Selected Studio Area	3
FA466	Special Studies: Selected Studio Area	3
FA467	Special Studies: Selected Studio Area	3
FA468	Special Studies: Selected Studio Area	3
FA469	Special Studies: Selected Studio Area	3
FA473	Sculpture V	3
FA474	Sculpture VI	3
IV. Three credits		3
FA104	Introduction to Fine Arts	3
V. Nine credits chosen from Art History Major Requirements, Sections II and III		9
VI. Nine credits in Fine Arts electives		9

* May apply to either Area II or III depending upon title.

NOTES: At least 90 Liberal Arts credits are required. Majors in Fine Arts must fulfill their General Education Requirements in a discipline other than in their major.

Studio Art (Minor)

Required Courses		15
Three credits chosen from the following:		
FA264	Painting 1	3
FA273	Sculpture 1	3
FA155	Drawing 1	3
FA150	Two Dimensional Design	3
FA152	Three Dimensional Design	3
Three credits chosen from the following:		
FA381	Photography 1 (Prereq. Waived)	3
FA284	Computer Graphics 1 (Prereq. Waived)	3
FA488	Video 1 (Prereq. Waived)	3
FA253	Graphic Design 1	3
Three credits chosen from the following:		
FA290	Ancient Art	3
FA291	Art of Medieval Europe	3
FA292	Early Renaissance Art	3
FA297	History of Still Photography	3
FA325	Women Artists	3
FA394	Twentieth Century Art in the US	3
FA390	High Renaissance & Late Sixteenth Century	3
FA395	Latin American Art	3
FA398	Afro-American Art	3
FA296	African Art	3
FA402	Media, Culture and the Visual Arts	3
FA490	Twentieth Century Art	3
Fine Arts Electives		6
Choose any 2 additional art studio classes not already taken in any sequence offered in the semester's course		

listings: a concentration in a specific media area OR additional variety in different media is permitted.

Theatre Arts (Minor)

The Theatre Arts minor is designed to encourage students who have an interest in acting and/or theatre production to pursue their interest while majoring in other areas. A Theatre Arts Minor offers more flexibility in career searches and is considered an asset by graduate schools. All students proposing to minor in Theatre Arts should apply in the Departmental Office, where they will be assigned an advisor. Courses chosen for the minor may not be used for general education requirement.

Minor Design for Theatre Arts		15
Required Courses		6
TA110	Introduction to the Theatre	3
TA215	Studies in Theatre Practices I	3
Choose 3 courses from the following:		
TA112	Voice and Stage Movement for Actors I	3
TA114	Stagecraft I	3
TA115	Stagecraft II	3
SPCH160	Fundamentals of Oral Interpretation: Prose and Poetry	3
SPCH182	Voice and Diction	3
TA211	Basic Acting	3
TA212	Scene Study	3
TA261	Intermediate Oral Interpretation (Drama)	3
TA311	Fundamentals of Directing	3
TA314	Computer Design for the Stage	3
TA316	Performance for Television	3
TA317	Theatrical Criticism	3
TA390	Special Studies Seminar I	3
TA411	History of Avant-Garde Performance	3
TA490	Independent Research	3
One Course may be chosen from below to satisfy requirement		
ENG318	Shakespeare: The Major Works	3
ENG364	The Tragic Vision	3
ENG365	The Comic Vision	3
SPCH390	Special Studies Seminar I	3

Note: Courses chosen for the minor may not be used to satisfy the general education requirement.

School of Business and Information Systems



It is my pleasure to welcome all of you to our newly-formed School of Business and Information Systems. This is an exciting time to study Business at York College. The formation of the school prompts us to do a thorough review of our on-going activities, recruit several talented new faculty, and take the necessary steps toward full accreditation.

For you, this means that you will receive a first rate education in whichever specialty you choose; one that is comparable to other highly-regarded business schools.

Best wishes,

Alfred Ntoko

Dean of the School of Business and Information Systems

The School of Business and Information Systems introduces students to all of the fundamental business disciplines, then allows them a wide range of choices when selecting their major field of study.

These major fields include Accounting, Marketing, Business Information Systems, and Business Administration which includes tracks in Human Resource Management, Entrepreneurship, Finance and Logistics of Supply Chain Management. The School also offers a unique program in Aviation Management. The School's faculty are drawn from the above disciplines, and represent a blend of academic preparation and managerial experience.

The School's goal is to provide New York with a cadre of technically prepared, practically grounded, and ethically aware young people, who will in time, assume leadership positions in the city's businesses and industries.

The aims of the School include:

- To graduate students who are not only skilled in business disciplines, but also broadly educated in the traditional liberal arts and sciences;
- To contribute to the ever-growing body of research in business disciplines that seeks to identify best practices;
- To contribute to the vibrant business community in the Borough of Queens, and throughout New York City.

718-262-5310

Department of Accounting and Finance

Ahsan, Rahnuma, Assistant Professor

Bharosay, Boadnarine, Professor and Chair

Chanel, Gerri, Associate Professor

Clovey, Robert, Associate Professor

Gellis, Harold, Professor

Hsu, Chun-Pin, Assistant Professor

Kranacher, Mary-Jo, Professor

Ruiz, Rosemarie, Associate Professor

Stern, Lorraine, Assistant Professor

Accounting (BS)

HEGIS Number 0502

The Accounting faculty aims to provide students with theoretical and practical tools in the areas of accounting, business and economics to prepare them for the Uniform Certified Public Accountancy Examination, careers in public, private or government accounting, or to allow them to continue with graduate studies or law school. Accounting courses study the concepts and methods needed to create financial records and statements for external and internal use of various entities: business firms, government bodies, non-profit organizations, etc. The B.S. degree in Accounting at York College includes all the educational requirements to sit for the Uniform Certified Public Accountancy Examination in New York

State. Students who wish to sit for the examination in another state should consult the appropriate state board of accountancy.

Major Discipline Requirements		60
Common Body of Knowledge		32
ACC101	Principles of Accounting I	4
ACC102	Principles of Accounting II	4
BUS283	Business Law I	3
BUS201	Computer Applications in Business	3
BUS301	Management Theory and Practice	3
BUS321	Principles of Finance	3
MKT341	Introduction to Marketing	3
BUS348	Productions/Operations Management	3
BUS430	Ethics, Government & Accountability	3
BUS481	Strategic Management	3
Required Courses		28
ACC201	Intermediate Accounting I	3
ACC202	Intermediate Accounting II	3
ACC203	Intermediate Accounting III	3
ACC301	Advanced Financial Accounting	4
ACC335	Auditing I	3
ACC345	Cost Accounting I	3
ACC350	Income Taxation	3
	Plus 6 credits Accounting Electives	6

Notes:

- Physical Education 150 is temporarily waived from the General Education Requirements for Accounting Majors.
- The requirement that half of the credits in the major program must be taken at York is superseded by the requirement that 15 credits in the Accounting discipline must be taken at York.
- All Accounting majors must take Economics 102, 103, 220, and Mathematics 115 in partial fulfillment of General Education Requirements and Liberal Arts Requirements. Transfer students majoring in Accounting must present or complete these courses, even though they have an Associate degree where all General Education requirements have been waived.
- Students who present a course in Income Taxation may substitute Accounting 351 (Advanced Income Taxation) for Income Taxation (Accounting 350).
- All Accounting majors must complete a minimum of 60 Liberal Arts credits inclusive of the Core Requirements.

Department of Business and Economics

Aceves, Robert, Associate Professor

Althaus, Paul, Professor

Bercovitz, George, Lecturer

Forrester, Wayne, Lecturer

Johnson, David, Lecturer

Massimino, Phoebe, Assistant Professor

Oladipo, Olajide, Assistant Professor and Chair

Ou, Chau Song, Associate Professor

Perry, Linda, Associate Professor

Sadighian, Ali, Assistant Professor

Schachter, Joseph, Associate Professor

Aviation Management (BS)

HEGIS Number 0599

The *Bachelors of Science in Aviation Management* degree is designed for students seeking to lead and manage in the world of aviation. Balancing key aviation concepts with advanced business strategy, the curriculum provides students a solid foundation of aviation expertise, industry standards, principles of management, and leadership delivered by aviation industry experts. The program explores all facets of aviation management, including airport and airline economics, aeronautical science, accounting, marketing, environment, aviation safety, assets protection and global business strategies. This approach to aviation education gives the student added value over aviation programs by focusing on the skills and knowledge required by today's industry. Upon graduation, students will be eligible and qualified candidates for desirable staff, operational, and executive positions within the aviation industry.

Required Courses		44
ACC101	Accounting I	4
ACC102	Accounting II	4
BUS230	Introduction to the Aviation Business	3
BUS235	Airport Planning and Management	3
BUS283	Business Law I	3
BUS321	Business Finance	3
BUS330	Aviation Operations	3

BUS335	Case Studies in Aviation Financial Management	3
ECON102	Introduction to Microeconomics	3
ECON220	Introduction to Economic Statistics	3
MKT353	Aviation Marketing and Economics	3
POL228	Public Administration in the Political Setting	3
POL233	Introduction to Aviation Safety and Security	3
POL402	Aviation Policy Seminar	3
Electives One course to be chosen from each group		9
Group I		
BUS202	Introduction to Management Information Systems	3
BUS236	Air Cargo Management	3
BUS237	Introduction to Emergency Planning and Management	3
BUS392	Aviation Internship in the Private Sector	3
GEOL282	Weather and Climate	3
Group II		
POL241	Basic Factors in International Politics	3
POL309	Aviation Law	3
POL392	Aviation Internship in the Public Sector	3
Group III		
PSY328	Human Factors Psychology	3
PSY219	Psychology of Terrorism	3
SOC220	Social Research I	3

Business Administration (BS)

The Business Administration BS consists of 4 Tracks; Human Resource Management, Entrepreneurship, Finance and Logistics and Supply Chain Management. Students must complete "The Common Body of Knowledge" as well as all requirements identified for their chosen track. Departmental advisement is strongly suggested before the Common Body of Knowledge requirements are complete to assist in the selection of a specified track.

Track #1: Human Resource Management

The Business Administration Human Resource Management Track is closely related to labor and industrial relations, as well as organizational behavior. The degree prepares students for positions in human resource leadership, to establish and advance organizational policies and guidelines and to utilize tools and techniques for developing transformational work environments. Graduates of the Human Resource Management Track will be prepared to become influential business leaders equipped with the ability to identify, analyze and solve complex human resource and management issues.

Track #2: Entrepreneurship

The Business Administration Entrepreneurship Track is designed to help students develop skills to enable them to start a small business or develop an existing business. Students are expected to develop business plans, skills in business communication, management and business administration. The Entrepreneurship track focuses on encouraging students to act on their own ideas and become effective business decision-makers. The program often provides internship opportunities for students to gain real-world experience.

Track #3: Finance

The Business Administration Finance Track provides students with the quantitative, analytical and problem-solving skills necessary for graduate programs and provides skills that are in high demand across the corporate, government and nonprofit sectors. In addition, students are taught to analyze the valuation of securities and to comprehend the influence of the monetary and banking system on economic activity. Students have the opportunity to also take financial planning certification exams

Track #4: Logistics and Supply Chain Management

The NEW Business Administration Logistics and Supply Chain Management Track is designed to provide students with the specific training and education necessary to manage the flow of products and information between businesses. The Logistics and Supply Chain Management Track comprehensively studies the field of supply chain management including Buying, Inventory Control, Supplier Development, Logistics and Distribution, and encourages the development of functional expertise and skills.

Students who complete the Logistics and Supply Chain Management track will be equipped with the required skills to oversee critical aspects of the supply chain, and prepare for employment in a variety of administrative and management roles in organizations operating in; transport, purchasing, supply chain management, contract distribution, manufacturing and retailing.

Common Body of Knowledge		32
ACC101	Principles of Accounting I	4
ACC102	Principles of Accounting II	4
	OR	

ACC103	Principles of Managerial Accounting	4
BUS201	Computer Applications in Business	3
BUS283	Business Law 1	3
BUS301	Management Theory & Practice	3
BUS321	Principles of Finance	3
BUS348	Production/Operations Management	3
BUS430	Ethics, Governance & Accountability	3
BUS481	Strategic Management	3
MKT341	Principles of Marketing	3
Track 1: Human Resource Management		
Track 1 Required Courses:		15
BUS311	Human Resource Management	3
BUS361	Management of Compensation	3
BUS370	Labor Relations and Collective Bargaining	3
PSY252	Leadership, Motivation & Power	3
PSY251	Organizational Behavior	3
Track 1 Electives/ Choose 4 courses from the following:		12
ACC238	Fraud Examination	3
BUS312	Staff Supervision & Employee Relations	3
BUS349	Entrepreneurship Basic	3
ECON361	Economics of Trade Unions	3
PSY253	Managerial & Personnel Psychology	3
PSY255	Psychology of Advertising & Marketing Communications	3
SOC238	Industrial Society	3
Track 2: Entrepreneurship		
Track 2 Required Courses:		15
BUS349	Entrepreneurship Basic	3
BUS357	Family Business	3
BUS431	Entrepreneurial Plans	3
MKT344	Retail Management	3
PSY252	Leadership, Motivation & Power	3
Track 2 Electives/ Choose 4 courses from the following:		12
BUS302	International Business	3
BUS311	Human Resource Management	3
BUS312	Employee Relations	3
MKT346	International Marketing	3
MKT347	Consumer Behavior	3
Track 3: Finance		
Track 3 Required Courses:		21
ACC201	Intermediate Accounting	3
BUS329	Corporate Finance	3
BUS322	Investment and Securities Analysis	3
BUS324	International Finance	3
BUS475	Case Studies in Finance	3
ECON311	Money & Banking	3
ECON420	Advanced Economic Statistics	3
Track 3 Elective Courses: Choose 2 courses from the following		6
ACC345	Cost Accounting I	3
BUS325	Real Estate Finance	3
BUS355	Futures and Option	3
BUS491	Independent Study in Management	3

Track 4: Logistics and Supply Chain Management		
Track 4 Required Courses:		18
BUS240	Foundations of Supply Chain Management	3
BUS365	Materials and Inventory/Production Control	3
BUS366	Transportation Management	3
BUS367	Logistics Management	3
BUS368	E-Business Technology	3
BUS369	International Supply Chain Management	3
Track 4 Electives/ Choose 2 Courses from the following:		6
BUS371	Supply Chain Modeling	3
BUS372	Strategic Cost Management	3
BUS373	Procurement Management	3
BUS374	International Logistics and Transportation	3
BUS491	Independent Study	3
ECON420	Advanced Statistics	3

Business Administration (Minor)

HEGIS Number 0506

EFFECTIVE FALL 2012		
Business Administration MINOR		15
Required Courses		9
BUS201	Computer Applications in Business	3
BUS283	Business Law	3
ECON102	Introduction to Microeconomics	3
Choose two courses from the following		
MKT341	Introduction to Marketing	3
BUS301	Management Theory and Practice	3
ACC101	Principles of Accounting I	4

This minor is not open to students majoring in Accounting, Business Administration, Economics or Marketing.

Business Administration - Entrepreneurship (BS)

HEGIS Number 0506

See Business Administration (BS)

Business Administration - Finance (BS)

HEGIS Number 0506

See Business Administration (BS)

Business Administration - Human Resource (BS)

HEGIS Number 0506

See Business Administration (BS)

Computer Applications in Business (Minor)

Required Course		15-16
BUS201	Computer Applications in Business	3
Four courses chosen from the following		
ACC210	Computer Applications in Accounting	3
BUS202	Introduction to Management Information Systems	3
BUS402	Management Information Systems	3
BUS303	Office Information Systems	3
CS497	Advanced Topics in Computing/Information Systems Management	3
MATH190	Computers in Modern Society	4

Economics (BA)

HEGIS Number 2204

The Bachelor of Arts degree in Economics allows students to understand social phenomena from an economics perspective including benefits and costs. The program enables students to think critically about choices under conditions of limited resources in order to understand more clearly the societal and economic consequences of such decisions. The Economics program prepares students for a wide variety of careers dealing with the flow of money, from business advisory to investment banker, money manager to personal finance consultant.

Major Discipline Requirements (30 Credits)		
ECON102	Introduction to Microeconomics	3
ECON103	Introduction to Macroeconomics	3
ECON200	Intermediate Microeconomics	3
ECON210	Intermediate Macroeconomic	3
ECON220	Introduction to Economic Statistics	3
ECON311	Money and Banking	3
Economics Elective		
	Elective in Economics	3
	Electives in Economics, Business, Accounting or Marketing*	9

*Business 327 and Business 425 may not be used to satisfy these elective requirements.

Students planning to do graduate work in economics should select Mathematics 121 or 184 to fulfill the General Education Mathematics requirement. They should also take at least the following elective courses: Economics 310, 311, 340, 360, and 420.

Economics (Minor)

Required Courses (15 Credits)		
ECON102	Introduction to Microeconomics	3
ECON103	Introduction to Macroeconomics	3
ECON200	Intermediate Microeconomics	3
ECON210	Intermediate Macroeconomics	3
ECON220	Introduction to Economics Statistics	3

Marketing (BS)

HEGIS Number 0509

The ability to successfully market and sell products or services is a foundation for every business, resulting in a high demand for professionals with strong marketing skills. The Marketing Major examines consumer behavior, principles of effective selling and how to help businesses make strategic decisions regarding product development and pricing. At the completion of this program students will be equipped with useful promotion tactics to meet the customer needs and ensure businesses profitability.

Major Discipline Requirements		59
Common Body of Knowledge		32
ACC101	Principles of Accounting I	4
ACC103	Principles of Managerial Accounting	4
BUS201	Computer Applications in Business	3
BUS283	Business Law I	3
BUS301	Management Theory and Practice	3
BUS321	Principles of Finance	3
BUS348	Production/Operations Management	3
BUS430	Ethics, Governance & Accountability	3
BUS481	Strategic Management	3
MKT341	Introduction to Marketing	3
Marketing Required Courses		15
MKT342	Market Research	3
MKT343	Advertising and Public Relations	3
MKT346	International Marketing	3
MKT347	Consumer Behavior	3

MKT483	Marketing Management	3
MARKETING ELECTIVES		
Choose one of the following		3
PSY251	Organizational Behavior	3
PSY253	Managerial & Personnel Psychology	3
Choose 3 of the following courses		12
BUS349	Small Business Management	3
MKT344	Retail Management	3
MKT350	Industrial Marketing	3
MKT352	Direct Marketing	3

BUS426	Lending Programs for Affordable Housing	3
ECON333	Urban Economics	3

* All Marketing Majors must take Mathematics 115 and Economics 103 toward fulfillment of General Education or Degree Requirements. At least 15 credits in major discipline requirements must be taken at York College.

Mortgage Finance (Certificate Program)

The Certificate Program is designed for returning students who would like to explore careers in the mortgage finance field and for individuals currently working in the mortgage finance field who feel that they need a wider and formal educational background. Students must meet matriculation requirements of the college and must maintain a GPA of 2.0 or better to complete the program. Students wishing to enroll in a certificate program may do so by following the College's admission procedures as described in the York College Bulletin. Currently enrolled students, York graduates, formerly enrolled students, and transfer students may also qualify for a certificate provided they meet certain requirements.

Required Courses		18
BUS301	Management Theory and Practice	3
BUS325	Introduction to Mortgage Banking	3
BUS328	Fair Housing and Fair Lending Laws	3
ECON311	Money and Banking	3
BUS426	Lending Programs for Affordable Housing	3
ECON333	Urban Economics	3

Mortgage Finance (Minor)

Required Courses		15
All of the following courses:		
BUS325	Introduction to Mortgage Banking	3
BUS328	Fair Housing and Fair Lending Laws	3
ECON311	Money and Banking	3

School of Health and Behavioral Sciences



Dean Lynne Clark

Dear Students and Visitors,

Welcome to the School of Health and Behavioral Sciences (SBHS) at York College. The School houses many exciting educational possibilities, all committed to providing you with a world class education that will competently prepare you for your future.

As your School Dean, join me in an exciting journey along the path to excellence at York College. Remember the following words and thoughts to guide your journey.

Begin. Discover. Achieve.

"The beginning is the most important part of the work" (Plato).

"We are all inventors, each sailing out on a voyage of discovery guided each by a private chart, of which there is no duplicate. The world is all gates, all opportunities" (Ralph Waldo Emerson).

"We are still masters of our fate, we are still captains of our souls" (Winston Churchill).

As you explore the School's major areas of study, you'll find academic programs of excellence that are current, vibrant, exciting and diverse. The School of Health and Behavioral Sciences houses six academic departments: **Behavioral Sciences, Health and Physical Education, Health Professions, Occupational Therapy, Social Sciences, and Teacher Education.**

These departments provide an array of York College's bachelor level professional programs that are in great demand in today's work force. These programs include: **Clinical Laboratory Science, Community Health Education, Gerontological Studies and Services, Health Promotion Management, Movement Science: Athletic Training or Coaching and Personal Training, Nursing, Physician Assistant, Social Work, and Teacher Education Childhood Education (Grades 1-6 and Secondary Education (7-12); Health and Physical Education, Grades K-12).** In addition, the School offers a **dual B.S./M.S. program in Occupational Therapy.** The Departments of Behavioral and Social Sciences offers five other bachelor level programs: **Black Studies, Anthropology, Political Science, Psychology, and Sociology.** The School's Departments also offer several exciting minor areas of study for students to consider, such as: **Aviation Policy, International Relations, Public Administration, Cognitive Neurosciences, and Medical/Urban Anthropology.**

Many of the School's professional programs are nationally recognized and accredited by: Accreditation Council for Occupational Therapy (ACOTE), Commission on Education for the Physician Assistant (ARC-PA), Council on Social Work Education (CSWE), the National Accrediting Agency for Clinical Laboratory Science (NAACLS), National Council for Accreditation of Teacher Education (NCATE), and the National League for Nursing (NLN). If you have received a degree from one of CUNY's community colleges and graduated in good academic standing, the School offers a streamlined transition to many of its baccalaureate degree programs.

The School and its programs are committed to supportive and diverse learning environments, world class faculty-scholars dedicated to supporting student success, and innovative curricula. Regardless of what major area of study you choose, you will be engaged in courses that are rich in content and strong in teaching. You will find opportunities to interact with faculty and fellow students, and can expect a challenging yet welcoming experience. Many students are engaged in faculty research projects, encompassing such areas as stress, diabetes, health promotion, HIV/AIDS, bilingual education and violence prevention. Students in the professional programs receive ample clinical experiences

early in their program of study to support the application of learning in the professions.

The aims of the School include:

- To provide the necessary support for successful student mastery of a number of important intellectual, social, and career skills for growing personally and professionally as productive citizens for the 21st century.
- To engender student's love of life long learning, characterized by intellectual curiosity, imagination, and creativity.
- To offer students a solid academic experience in a chosen major area of study that is grounded in current research and practice, and that is built upon a strong foundation in liberal arts.
- To provide students with diverse opportunities for mentoring, research, and internships. To support a learning community where the unique contributions and self-esteem of all its members are highly valued.
- To ensure professional programs maintains good standing with accrediting bodies, and are nationally recognized.
- To invest in the continual development of a diverse, first class faculty that stresses excellence, innovation, and leadership in teaching, research, and service.
- To serve as a multifaceted resource for the greater New York metropolitan community.

I look forward to meeting you, and best of luck for a highly successful year.

Lynne W. Clark, Ph.D. Dean, School of Health and Behavioral Sciences

Academic Core Building, 2H07

lclark@york.cuny.edu

718-262-3865

Department of Behavioral Sciences

Ashton, William, Associate Professor

Austin, Susan, Doctoral Lecturer

Chirico, Donna, Professor and Chair

Daniels, Ron, Distinguished Lecturer

Davies, Kristin, Assistant Professor

Duncan, Robert, Assistant Professor

Dyer, Conrad, Associate Professor

Flynn, Michael, Professor

Hansen, Ian, Assistant Professor

Harper, Robin, Assistant Professor

Majerovitz, Deborah, Professor

Mokrue, Kathariya, Assistant Professor

Preiser, Lawrence, Assistant Professor

Sharpe, Michael, Assistant Professor

Smickle, Winsome, Lecturer

Swoboda, Debra, Associate Professor

Villegas, Francisco, Associate Professor

Aviation Policy (Minor)

Requirements for the Concentration		6
POL210	Introduction to Political Economy	3
POL228	Public Administration in the Political Setting	3
Elective Group 1 Choose one		3
BUS230	Introduction to the Aviation Business	3
BUS235	Airport Planning and Management	3
BUS330	Aviation Operations	3
BUS335	Case Studies in Aviation Financial Management	3
MKT353	Aviation Marketing and Economics	3
POL280	Transportation: Planning, Finance & Policy	3
Elective Group 2 Choose one		3
ECON310	Public Finance (Cross listed as Political Science 311)	3
POL320	Risk Management for Public Policy	3
POL329	Public Administration: Management Process	3
Elective Group 3 Choose one		3
BUS392	Aviation Internship in the Private Sector	3
POL392	Aviation Internship in the Public Sector	3
POL402	Aviation Policy Seminar	3
Electives		9

Total credits Required for the Minor in Aviation Policy 15

* Students are required to complete Political Science 103 and Economics 102 as part of general education requirements

Cognitive Neuroscience (Minor)

Required Courses		15
BIO334	Comparative Physiology	4.5
PHIL241	Philosophical Psychology	3
PSY362	Physiological Psychology	3
PSY319	Human Cognition Laboratory	3
or		

PSY370	Psychology of Consciousness	3
PSY490	Independent Study and Experimental Research	3

Note: If you are a Psychology Major, you must take Psychology 313 to fulfill the major **and** Psychology 362 to fulfill the minor. The same course cannot be used to fulfill two areas.

International Relations (Minor)

Required Courses* (15 Credits)		
Students must complete the following courses (9 credits)		
POL241	Basic Factors in International Politics	3
POL346	American Foreign Policy	3
POL453	Seminar in Global Change	3
Choose two courses from the following (6 credits)		
POL250	Latin American Politics	3
POL256	African Politics	3
POL257	Asian Politics	3
POL258	Middle East Politics	3

*Students are required to complete either Political Science 101 or Political Science 103 in partial fulfillment of General Education Requirements.

Labor Studies within Political Science (Minor)

Required Courses		15
Demography and Social Strata		3
Choose one		
POL214	Racial and Ethnic Politics	3
SOC235	Ethnicity	3
HIST274	The American Ethnic Experience	3
AAS285	The Urbanization of the American Black	3
Socio-Political Context of the Work Place: Office and Factory		3
Choose one		
POL214	Racial and Ethnic Politics	3
POL285	Urban Government in the United States	3
SOC238	Industrial Sociology	3
SOC239	Sociology of Work	3
AAS331	The Civil Rights Movement in America	3
HIST273	The American Worker	3
Theories of the Working Class and Trade Unionism		3
Choose one		
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3
ECON361	Economics of Trade Unions and Collective Bargaining in the US	3

HIST333	Nineteenth Century Europe	3
American Labor and American Business		6
Choose one		
POL311	Advanced Topics in Pol Sci.	3
POL312	Advanced Topics in Pol Sci.	3
POL340	American Capitalism: Political And Social Aspects	3
POL367	Contemporary Political Theory	3
ECON360	Labor Economics	3
AAS354	The Role of Blacks in the American Economy	3

Political Science (BA)

HEGIS Number 2207

Acknowledging the diversity within our college community and the various directions in which the study of Political Science can lead, the discipline seeks to assure a correspondingly flexible program of instruction. The faculty's overriding concern is to help students develop the capacity to evaluate critically their own and other political systems and to relate classroom experience effectively to urgent civic and social issues. In this context, the overall curriculum is designed to promote both a theoretical and practical understanding of the interplay among social classes, values, political power and conflict; the processes of decision making and the state; and factors that affect social justice and political adjustments to changing conditions globally as well as nationally. In addition to these concepts the faculty is committed to the reinforcement of skills such as critical thinking, writing and computer literacy.

Career Opportunities

The political science program prepares students for graduate study or law school, and for careers in local, state or national government, education, journalism, law, international affairs, campaign management and for staff work with political parties, interest groups, labor organizations, non-profit and research organizations. Political Science is also a liberal art and an appropriate major for students who are uncertain of their career interests.

Political Science Curriculum

In addition to courses in American government and politics, the program offers a broad array of courses in political theory, public administration, prelaw, comparative government, international relations and

area studies. To major in political science, students must take a minimum of 30 credits in political science, of which 18 are required. For the remainder of the credits students are encouraged to consult with a faculty adviser to assist them in selecting a relevant concentration of elective courses which will advance their interests and career goals. Besides traditional classes, the department offers advanced work for juniors and seniors in a variety of formats including seminars and internships at the local, state and national levels.

Major Discipline Requirements (31 Credits)	
Required Courses	6
POL214 Radical and Ethnic Politics	3
POL285 Urban Government in the United States	3
One course chosen from the following	3
POL202 Comparative Politics*	3
POL241 Basic Factors in International Politics**	3
One course chosen from the following:	3
POL267 Classical Political Theory I: Plato to Machiavelli	3
POL268 Political Theory II: Machiavelli to Marx	3
POL269 American Political Thought	3
Area Studies	
One course chosen from the following:	3
POL226 The U.S. Supreme Court	3
POL327 Congress and the Presidency	3
Once course chosen from the following:	3
POL250 Latin American Politics	3
POL256 African Politics	3
POL257 Asian Politics	3
Internship	
POL258 Middle East Politics	3
One course chosen from the following	4
POL393 Seminar-Internship in New York City Government and Community Development	4
POL394 Seminar-Internship in New York City Government and Community Development	4
Elective Political Science courses, 9 credits	9

Note: Electives must include a 300 or 400 level course, and should be chosen in consultation with a Political Science advisor.

For students pursuing careers in law, civil service, management, teaching etc., POL 228, 230, 275 are highly recommended.

Students hoping to pursue doctoral studies in political science are urged to take: Politics 220 (or Sociology 220), Politics 453, and Politics 340 or 367

* Political Science majors must choose POL 103 to satisfy the General Education requirement.

Political Science (Minor)

For students in other majors who desire a background in government and politics the program offers four minors in political science. Interested students are urged to consult with political science faculty to determine an appropriate minor.

Political Science		15
Required Courses		6
POL103 Politics and Government in the United States *		3
POL202 Comparative Politics		3
Choose one		3
POL241 Basic Factors in International Politics		3
POL285 Urban Government in the United States		3
Choose one		3
POL267 Classical Political Theory I: Plato to Machiavelli		3
POL268 Political Theory II: Machiavelli to Marx		3
POL269 American Political Thought		3
Choose one		3
POL340 American Capitalism: Political and Social Aspects		3
POL367 Contemporary Political Theory		3

* This course may be used to fill the General Education Requirement or the minor requirement.

Political Science/Cross-Cultural Studies For Psychology (Minor)

This sequence of courses is designed to acquaint students with the application of psychological theory to understanding different cultures and subcultures, and to the way social, cultural, and political organizations and institutions shape human behavior.

Required Courses		15
ANTH442	Culture and Personality	3
POL214	Racial and Ethnic Politics	3
PSY332	Social Psychology	3
PSY333	Black Psychology	3
PSY236	Psychology of Women	3

Note: If you are a Psychology Major, you must take Psychology 338 to fulfill the major **and** Psychology 332 to fulfill the minor. The same course cannot be used to fulfill two separate requirements.

Pre-Law Studies within Political Science (Minor)

Required Courses		15 - 16
Required Courses		
POL226	U.S. Supreme Court	3
POL275	Introduction to Law	4
PHIL103	Introduction to Philosophy*	3
Choose one of the following		
POL305	Selected Legal Topics	3
POL306	Selected Legal Topics	3
Additional Required Course (choose one)		
PHIL121	Beginning Deductive Logic	3
PHIL356	Philosophy of Law	3
POL310	Legal Research	2
POL322	The Courts and Public Policy	3

Psychology (BA)

HEGIS Number 2001

Course Offerings

In creating course offerings, interdisciplinary minors, and programs of study in psychology, our mission is to provide comprehensive academic training that will prepare students for graduate training and/or careers in psychology while maintaining curricula flexibility to meet the needs of students with disparate interests and goals. The curriculum is designed to meet the needs of a diverse student body and it aims to foster personal and professional growth, competence in the psychological bases of scientific research, and community service. Emphasis is given to students' understanding of issues of gender, ethnicity, culture, and socioeconomic class in psychological theory, research, and practice. Students planning to major in psychology must register with the department by the beginning of the junior year. It is recommended that new majors see a faculty advisor in the department as early as possible in their college career to expedite program planning and course selection. Students are encouraged to select elective courses in the major that reflect their interests and/or preparation for graduate and professional training.

Major Course Requirements Complete Groups I, II, and III		33-34
Group I: Required Psychology Courses (15 credits)		
PSY215	Human Development I – Infancy/Childhood	3
PSY326	Statistical Methods in Psychology	3

PSY330	Foundations of Research in Psychology	3
PSY334	Personality	3
PSY401	History of Psychology	3
Group II: Choose one course in Area A, B, and C (9 Credits)		
Only ONE course required in EACH area		
Area A: Choose one of the following:		
PSY319	Human Cognition Laboratory	3
PSY321	Psychology of Learning Laboratory	3
Area B: Choose one of the following		
PSY332	Social Psychology	3
PSY338	Abnormal Psychology	3
Area C: Choose one of the following		
PSY313	Sensation and Perception Laboratory	3
PSY362	Physiological Psychology	3
Group III: Three additional Psychology Courses		9 - 10

Note: Group III Courses: The courses in Group II may be used as electives. If, for example, you take Psychology 319 to fulfill Area A, you can use Psychology 321 as an elective in Psychology. Be careful to check the prerequisites for each elective course you choose.

Psychology (Minor)

The Psychology Minor is designed to meet the needs of students who are majoring in other disciplines and who want to enhance their education with additional knowledge about human thought and behavior. Students will work with a faculty advisor in Psychology to design a program of study that fits their career goals and complements their major field of study.

Required Courses		15
PSY102	Introductory Psychology	3
Four additional courses in Psychology (Note: At least 2 of these 12 courses must be at the 300-level or higher.)		

Important Note: If your major requires Psychology courses, these classes **cannot** be counted toward the Psychology Minor.

Public Administration (Minor)

Required Courses		15
POL103	Politics and Government in the United States *	3
POL228	Public Administration in the Political Setting	3
POL285	Urban Government in United States	3
POL329	Public Administration: Management Processes	3
POL330	Public Policy Making	3

Note - Students will be required to take five (5) of the six (6) courses listed for a minor in Public Administration

*This course may be used to fill the general education requirement, or the minor requirement.

Department of Health Professions

Alexandre, Margaret, Assistant Professor

Beckerman, Bernard, Associate Professor

Brugna, Robert, Associate Professor

Davidson, Emily, Associate Professor and Chair

Dill, Linda Jo, Associate Professor

Donahue, Nadine, Assistant Professor

Gibson, Heather, Associate Professor

Graffeo, John, Associate Professor

Lavin, Joanne, Professor

Mathew, Lilly, Assistant Professor

McFarquhar, Claudette, Associate Professor

Pavletich, Kathleen, Professor

Rampersaud, Edward, Doctoral Lecturer

Shearin-Patterson, Tonya, Assistant Professor

Wright, Renee, Assistant Professor

Clinical Laboratory Science / Medical Technology (BS)

HEGIS Number 1223

The programs offered by the Department of Health Professions aim to prepare students for various health careers that can help address health disparities in the community. Students may elect careers in medical technology, nursing, or physician assistant.

The curriculum for each of these majors is designed to blend liberal arts and professional education. In addition, the design of the professional curriculum is based on prerequisite education in the basic sciences and a conceptual core of knowledge in the health sciences.

Admission to Health Professions Programs

Admission to each program takes place at the freshman, upper sophomore or lower junior level. Acceptance is based on matriculation at York College, completion of a minimum number of credits, specific prerequisite coursework and attainment of a minimum grade point average, and approval of the discipline Admissions Committee (see each discipline for details). Applicants are not considered "accepted" until they receive a letter from the respective department stating acceptance in a particular program.

Clinical Internships

Each of the programs of study at York includes a prescribed sequence of courses at the college and may include a prescribed period of clinical fieldwork. In some instances the cooperating agency may require the payment of fees. Such fees are the responsibility of the student, although the college will provide the assistance of its Financial Aid Office if it is desired. Refer to specific discipline for further information.

Medical Technology is the branch of medicine concerned with the performance of laboratory test procedures and analyses used in the diagnosis, treatment, and prognosis of disease, and the maintenance of health.

Eligibility for Admission to the Upper Division and Clinical Portion of the Clinical Laboratory Science Program:

Students must apply for admission to the upper division and clinical portion of the Medical Technology program. To be eligible for admission, students require

1. Overall GPA of at least 2.5
2. Successful completion of the following courses: Biology 201, 202 and 265, Chemistry 101, 102, 230, 235, 237 and 241
3. A minimum grade of "C" in General Biology, General Chemistry and Organic Chemistry is required for entry into the CLS program.
4. Required Science courses taken more than 10 years prior to admission to the CLS program cannot be used for transfer credits.
5. Matriculation at York

Retention in the Clinical Laboratory Science Program

To be retained in the program, students must:

1. Earn a minimum grade of "C" in each Medical Technology course.
No Medical Technology course may be taken more than twice.
2. Maintain a GPA of at least 2.5 in Medical Technology courses and overall.
3. Complete all degree requirements within four years of the date of admission to the upper division and clinical portion of the Medical Technology program.

Eligibility for Field Study

To be eligible for field work, students must:

1. Have completed all required Medical Technology courses.
2. Maintain a GPA of at least 2.5 in Medical Technology courses and overall.
3. Have the written permission of the Medical Technology Director.

Eligible students must apply for field work placement to the Medical Technology Director at least 60 days prior to the start of field work. Students who fail to register for the internship courses will be denied the credits for the courses unless a non-internship track is chosen.

EFFECTIVE FALL 2012		
Major Discipline Requirements		74
Required Basic Science Courses		27
BIO201	Principles I	4
BIO202	Principles II	4
BIO265	Clinical Microbiology	3
CHEM102	Chemical Principles II	5
CHEM230	Essentials of Organic Chemistry	3
CHEM235	Organic Lab	2
CHEM237	Toxicology	3
CHEM241	Instrumental Methods of Analysis	3
Technology Courses		37
HPGG101	Basic Concepts of Health Professions	2
HPMT252	Introductory Hematology	3
HPMT330	Human Anatomy and Physiology for Clinical Lab Scientists	3
HPMT332	Tissue Techniques	2
HPMT341	Clinical Immunoserology	2
HPMT343	Immuno-Hematology and Blood Banking	3
HPMT351	Clinical Chemistry	4
HPMT352	Advanced Hematology	3
HPMT353	Medical Mycology & Parasitology	3
HPMT354	Coagulation	3
HPMT357	Clinical Bacteriology	4
HPMT358	Diagnostic Techniques in Molecular Pathology	3
HPMT361	Urinalysis and Body Fluids	3

HPMT362	Seminar for Professional Issues in Clinical Lab Sciences	2
Internship		10
HPMT459	Internship for Clinical Lab Sciences	5
HPMT460	Internship for Clinical Lab Sciences	5

Suggested courses for free electives to be selected by the student in consultation with the advisor to suit the student's career objective:

Mathematics 190, 191; Chemistry 233, 234; HPGC 102, 201; Biology 325, 344, 412, 452; Physics 105, 106.

Students considering graduate studies are advised to take these elective courses: Chemistry 233, 234; Biology 325, 344, 452; Physics 104, 106.

Medical Technology Hospitals Available for Student Internships

- Jacobi Medical Center, Bronx, NY
- North Central Hospital, Bronx, NY
- Lincoln Hospital Medical Center, Bronx, NY
- State Univ. Health Science Center, Brooklyn, NY
- New York Hospital of Queens, Flushing, NY
- Core-North Shore LIJ Health Systems, Lake Success, NY
- Long Island Jewish Medical Center, New Hyde Park, NY
- North Shore University Hospital, Manhasset, NY

The National Accrediting Agency for Clinical Laboratory Science (NAACLS) Board of Directors' has awarded initial accreditation for two years effective April 8, 2010 to York College of CUNY's Clinical Laboratory Science Program.

Nursing (BS)

HEGIS Number 1203

***The Baccalaureate Nursing Program consists of two tracks:**

1. A generic program providing all general education and professional coursework to enable a student to earn a baccalaureate degree in Nursing and qualify to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).
2. A degree completion program exclusively designed for students who are Registered Nurses (RN) (graduates of diploma and associate degree nursing programs).

The Program will prepare a generalist professional nurse to deliver professional nursing care in a variety of settings, with a focus on primary level intervention (prevention of illness/disease and maintenance of health).

The purpose of the program is to:

1. prepare a professional practitioner of nursing
2. provide a foundation for graduate study in nursing

Eligibility for Screening into the RN to BS Program

Students must meet the requirements for admission to York College, including the standards of proficiency in the basic skills areas of reading, writing and mathematics. Students who pass the CUNY assessment tests are eligible to enroll in General Education courses and additional prerequisite courses as listed:

Admission Criteria

1. Completion of the 56 required General Education and prerequisite credits
2. A minimum grade point average (GPA) of 3.0 in all General Education and prerequisite credits.
3. A grade of "C" or better in each General Education and Prerequisite course.
4. Completion of all required lower division Writing Intensive (WI) Courses.
5. Professional Liability (Malpractice) Insurance (prior to start of first clinical course).
6. Current Basic Life Support Certificate (BCLS).
7. New York State Registered Nurse licensure.

An application for admission to the RN to BS program is submitted during Nursing 203. Successful candidates will be notified by the Nursing Program regarding their admission status by June.

Advancing to Nursing Clinicals

In order to advance into nursing clinical's, students must provide documentation for one of the following categories:

1. U.S. Citizenship
2. Permanent Residency
3. International Student with F1 Status
4. Granted Asylum, Refugee Status, Temporary Protected Status, Withholding of Removal, Deferred

Enforced Departure; or Deferred Action Status by the U.S. government

Students who may be affected by the change can consult with the CUNY Citizenship and Immigration Project^[56], which provides free counseling and assistance to all CUNY students who need help with their immigration status.

EFFECTIVE FALL 2012		
General Education Requirements		
ENG125	Introduction to College Writing	4
ENG200	Understanding Literature	3
SPCH101	Oral Communication in Contemporary Society	3
WRIT303	Research and Writing for Professional Programs	3
Choose one of the following		
SPAN110	Spanish for the Health Professions	3
FREN110	French for the Health Professions	3
Choose one of the following		
CLDV201	Cultures and Societies of the World: Africa, Latin America and the Caribbean	3
CLDV202	Cultures and Societies of the World: The Far East and South East Asia	3
CLDV203	Cultures and Societies of the World: Asia and the Middle East	3
CLDV210	Cultures and Societies of the World: Western Civilization	3
Choose one of the following		
PHIL102	Beginning Informal Logic	3
PHIL103	Introduction to Philosophy	3
PHIL121	Beginning Deductive Logic	3
Humanities Elective Choose one of the following		
FA104	Introduction to Fine Arts	3
FA150	Visual Design: Two Dimensional	3
FA152	Visual Design: Three Dimensional	3
FA155	Drawing I	3
FA264	Painting I	3
FA382	Photography II	3
MUS101	Introduction to Music	3
MUS110	Basic Theory I	3
MUS225	Computer Music I	3
MUS250	Afro-American Music in the United States	3
MUS253	History of Jazz	3
Behavioral Sciences 6		
PSY102	Introduction to Psychology	3
Choose one of the following		
ANTH101	Introduction to Cultural Anthropology	3
SOC101	Introductory Sociology	3
Mathematics 4		
MATH111	Statistics	4

56. <http://web.cuny.edu/about/citizenship.html>

Natural Sciences Nursing major- five credits as stipulated by major discipline.		5
CHEM105	Essentials of College Chemistry***	5
Additional Requirements for screening and progression		23
PSY214	Lifespan Development for the Health Professions	3
BIO234	Anatomy & Physiology I	4
BIO235	Anatomy & Physiology II	4
BIO265	Microbiology	3
BIO382	Nutrition	2
NURS200	Professional Nursing Process	2
NURS203	Health Assessment -Wellness Promotion	5
Major Discipline Requirements		55
NURS301	Values in Transition: Perspectives of Professional Nursing (WI)	4
BIO336	Pathophysiology	3
NURS310*	Nursing Process: Nursing Care of the Child-bearing Client /Family System	5
NURS314	Management & Leadership in Professional Nursing / Client Intersystem	3
NURS315	Professional Nurse-Family and Community Intersystems I	6
NURS320*	Deviations in Physiological Function I: Nursing Intervention for the Adult/Family client system	8
NURS340*	Nursing Care of Children: Infancy to Adolescence	5
NURS405	Professional Nurse-Family and Community Intersystems II	3
NURS406	Professional Nurse-Societal and Community Client Intersystem: Emergent Evolution	3
NURS407	Research in Professional Nursing Practice (WI)	3
NURS420*	Deviations in Physiological Functioning II: Nursing Interventions for Adult/Family Client Systems	8
NURS430*	Nurse-Client Intersystem: Psychiatric/Mental Health Nursing	4
Plus 3 credits free electives		2

* Transfer credits granted to all RN's

100 level Cultural Diversity course is waived for nursing majors. Cultural Diversity is a curriculum thread that is embedded in every nursing course, as is evident in the course syllabi.

Psychology 214 is also a support course which is a requirement for screening and progression.

Credits for Chemistry are not counted in this grouping as they are counted to fulfill General Education requirements in the Natural Sciences.

Credit by validation examination may be earned by: Excelsior College and the College Level Examination

Program (CLEP). For information pertaining to these examinations contact:

Excelsior College (Regents College)
7 Columbia Circle
Albany, New York 11203
Telephone: (518) 464-8500

College Level Examination Program (CLEP)
P.O. Box 6600
Princeton, NJ 08541 – 6600
Telephone: (800) 257-9558

Information pertaining to NLNAC Accrediting Agency:

3343 Peachtree Road NE, Suite 500
Atlanta, GA 30326
Phone: 404.975.5000
Fax. 404.975.5020
Website: www.nlnac.org^[57]

Articulation Agreements

York College RN – BACCALAUREATE Nursing Program has articulation agreements with the Nursing Programs at the following colleges:

- Queensborough Community College/ CUNY
- LaGuardia Community College/CUNY

For progression to the Nursing major, students must submit a completed application (deadline: March 1st of each year). Application forms may be obtained from the Nursing Program office. Students who are enrolled in courses, leading to the fulfillment of the prerequisite requirements, are permitted to apply for progression to the nursing major.

Students who have submitted applications for progression to the Nursing major will receive a letter from the Director of the Nursing Program detailing their acceptance status. Students are urged to read this correspondence carefully.

Frequently Requested Information

New students who are awaiting NCLEX results may enroll, with permission, in NURS 203 – Health

57. <http://www.nlnac.org/>

Assessment Course that is offered only during the Spring semester– (offered in the Summer only with adequate enrollment).

Students must complete a course in human nutrition. The prerequisite for Human Nutrition (Bio-382) is Chemistry 105 at York College. Students who have completed 4-5 credit Chemistry courses (with a lab component) grade of "C" or better and seeking equivalency credit for Chemistry 105, must see the coordinator of the Chemistry Discipline.

CUNY/SUNY A.A.S. graduates are encouraged to clarify any course waivers from the General Education requirement with the Office of the Registrar. NON-CUNY/SUNY graduates are strongly encouraged to seek advisement from a Nursing faculty member to clarify transfer credits and avoid taking the wrong courses

Nursing - Generic (BS)

HEGIS Number 1203

Eligibility for Screening into the Generic Program

Students must meet the requirements for admission to York College, including the standards of proficiency in the basic skills areas of reading, writing and mathematics. Students who pass the CUNY assessment tests are eligible to enroll in General Education courses and additional prerequisite courses as listed:

Admission Criteria

1. Completion of the 56 required General Education and prerequisite credits
2. A minimum grade point average (GPA) of 3.0 in all General Education and prerequisite credits.
3. A grade of "C" or better in each General Education and Prerequisite course.
4. Completion of all required lower division writing intensive (WI) Courses.
5. Professional Liability (Malpractice) Insurance (prior to start of first clinical course).
6. Current Basic Life Support Certificate (BCLS).
7. Successful score on the NLN pre-admission RN exam (PAX-RN)

Admission to the generic nursing program is highly competitive. The program is designed for full-time study. Students who are interested in the program must meet the requirements for admission to York College. They are

required to pass the CUNY Admission Examination in the basic skills areas; reading, writing and mathematics, as well as all required prerequisites science and foundation courses. Admission to the college does not guarantee acceptance to the nursing program. **Students who have failed/ been dismissed from another nursing program are not be eligible for admission to York's Program.**

Students must complete the following courses with a minimum of a C grade:

General Education Requirements		
ENG125*	Introduction to College Writing	4
ENG200	Understanding Literature	3
SPCH101	Oral Communications in Contemporary Society	3
WRIT303	Research and Writing for Professional Programs	3
Choose one of the Following		
FREN110	Spanish for Health Professions	3
SPAN110	Spanish for the Health Professions	3
Choose one of the Following		
CLDV201	Cultures and Societies of the World: Africa, Latin America and the Caribbean	3
CLDV202	Cultures and Societies of the World: The Far East and South East Asia	3
CLDV203	Cultures and Societies of the World: Asia and the Middle East	3
CLDV210	Cultures and Societies of the World: Western Civilization	3
Choose one of the following		
PHIL102	Beginning Informal Logic	3
PHIL103	Introduction of Philosophy	3
PHIL121	Beginning Deductive Logic	3
Behavioral Science 3		
PSY102*	Introduction to Psychology	3
Choose one of the Following		
ANTH101	Introduction to Cultural Anthropology	3
SOC101	Introduction to Sociology	3
Mathematics		
MATH111	Statistics	4
Natural Science		
CHEM105*	Essentials of College Chemistry*	5
Additional Requirments for Screening and Progression		
PSY214	Lifspan Development for the Health Professions	3
BIO234*	Anatomy & Physiology	4
BIO235*	Anatomy & Physiology II	4
BIO265	Microbiology	3
BIO382	Nutrition	2
NURS101	Pharmacology: I Dosage Calculations	2
Nursing Major Discipline Requirements		
BIO336	Pathophysiology	3
NURS202	Nursing Practice & Pharmacotherapeutics	3
NURS203	Health Assessment - Wellness Promotion	5

NURS210	Fundamentals of Nursing Practice	5
NURS301WI	Values in Transitions: Perspectives of Professional Nursing	4
NURS302	Pharmacology for Nurses	3
NURS310	Nursing Process: Nursing Care in the Child-bearing Client/Family System (7 weeks)	5
NURS314	Management & Leadership in Professional Nursing/Client Intersystem	3
NURS320	Deviations in Physiological Function I: Nursing Intervention for the Adult/Family Client System	8
NURS340	Nursing care of Children: Infancy to Adolescence (7 weeks)	5
NURS406	Professional Nurse-Societal & Community Client Intersystem: Emergent Evolution	3
NURS407	Research in Professional Nursing Practice (WI)	3
NURS415	Professional Nurse-Client Intersystem (7 weeks)	6
NURS420	Deviations in Physiologic Functions II	8
NURS430	Psychiatric/Mental Health Nursing (7 weeks)	4
		120

Please Note: courses listed with an asterisk (*) are used to calculate the G.P.A. and rank applicants. A student will only be allowed to take these courses once.

Note: 100 Level Cultural Diversity Course is waived for Nursing majors. Nursing students are also exempt from PE 150

Physician Assistant (BS)

HEGIS Number 1299.10

Mission Statement

The mission of the York College Physician Assistant program is to educate students drawn mainly from a diverse urban population so that they can provide knowledgeable, high quality, culturally competent health care to medically underserved communities.

Career Description

The Physician Assistant (PA) is a health professional licensed to practice medicine with physician supervision. Physician assistants are qualified by graduation from an accredited physician assistant training program and by certification of the National Commission on Certification of Physician Assistants. Within the collaborative physician/PA relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services. The

clinical role of physician assistants includes primary and specialty care in medical and surgical settings working in both rural and urban areas. Physician Assistant practice is centered on patient care and may include educational, research and administrative activities.

The PA elicits medical histories, performs complete physical examinations, performs and interprets various diagnostic tests and formulates diagnosis and treatment plans. The physician assistant functions within the scope of practice of the supervising physician and within the level of experience and training achieved. An important component of PA practice is patient counseling and patient education. Physician assistants practice in varied settings, including private medical offices, hospitals, clinics and community health centers.

Physician assistants practicing in New York State may write prescriptions for medications, including certain classes of controlled substances. Physician assistants provide services in various medical and surgical disciplines including, but not limited to: family practice, pediatrics, internal medicine, obstetrics/gynecology, geriatrics, orthopedics, psychiatry and emergency medicine.

The physician assistant role requires the application of intelligence, compassion, sound judgment, critical reasoning, dedication to patients, and good interpersonal skills.

Accreditation and Credentials

1. The ARC-PA has granted **Continued Accreditation** to the Physician Assistant Program sponsored by York College/CUNY. Continued accreditation is an accreditation status granted when a currently accredited program is in compliance with the ARC-PA *Standards*. Continued Accreditation remains in effect until the program closes or withdraws from the accreditation process or until accreditation is withdrawn for failure to comply with the *Standards*. The approximate date for the next comprehensive review of the program by the ARC-PA will be **March 2016**.
2. The Bachelor of Science in Physician Assistant Studies is conferred when the Physician Assistant Program requirements are fulfilled, including successful completion of all Physician Assistant Major Discipline requirements, in addition to York College's General Education Requirements for the Bachelor of Science Degree

3. Certification: Upon completion of all requirements and approval by the PA program, the graduate is permitted to sit for the National Commission on Certification of Physician Assistants examination.
4. Licensure: Upon completion of all requirements, the graduate is permitted to apply to New York State for limited permit licensure as a physician assistant. The PA can apply for a full license upon taking and passing the National Commission on Certification of Physician Assistants (NCCPA) examination.

Eligibility for Screening into the Physician Assistant Program

PLEASE NOTE: To receive a complete package of information about the program including an application, please send an email requesting an information package to: paprogram@york.cuny.edu You can also pick up a copy of the package in the PA Program office: SC-112 in the Science Building. The application must be printed, completed, signed and returned to the office to initiate your application. Your application will not be considered complete until all supporting documentation is received (see below).

Eligibility For Screening Requires The Following:

Completion of 61 college credits required for screening for admission (Transfer Students must have all prerequisite courses completed). *73 college credits must be completed prior to beginning the PA Program.*

Overall Grade Point Average 2.9 minimum. Science Grade Point Average (includes all Biology and Chemistry prerequisites) 2.9 minimum.

Students whose Science Prerequisites GPA is less than 2.9, but whose upper division science classes have consistently higher grades may still be considered for admission. Students whose Science GPA is 2.9 or better, but whose Cumulative GPA is less than 2.9 may petition to the committee to be considered if they can demonstrate a consistent improvement in academic performance. The petition letter should be included with the application to the program.

Plan for completion of all York College general education and pre-major course requirements prior to enrollment:

- Biology 201 - Biological Principles I, lecture and lab
- Biology 202 - Biological Principles II, lecture and lab

- Chemistry 101 - Chemical Principles I, lecture and lab
- Chemistry 102 - Chemical Principles II, lecture and lab
- Chemistry 231- Organic Chemistry I or 230 and 235 - Essentials of Organic Chemistry, lecture and lab
- Biology 234 - Anatomy and Physiology I, lecture and lab
- Biology 235 - Anatomy and Physiology II, lecture and lab
- Mathematics 111 - Introduction to Statistics and Probability
- Psychology 102 - Introductory Psychology
- Sociology 101 - Introduction to Sociology
- Philosophy 103 - Introduction to Knowledge and Value (preferred) or Philosophy 102 or 121
- Health Professions GC 101 - Basic Concepts of Health Professions
- Writing 303 - Research and Writing for Professional Programs
- All York College General Education Requirements, including Fine & Performing Arts (3 credits) and 2 Writing Intensive (WI) Courses (the 3rd WI course required for graduation is a component of the PA Program Course work)

Prerequisite Coursework Requirements

- Science course credit taken over 10 years ago will not be accepted. Older science prerequisite courses must be retaken to be considered.
- No prerequisite course with a grade below a "C" will be considered.
- Student may submit documentation of successful completion of CLEP Exams in Biology and Chemistry to be waived from the following course(s): Bio 201, Bio 202, Chem 101, Chem 102
- Six (6) credits of other behavioral sciences may be considered in place of Psy 102 and/or Soc 101

General education requirements waiver may be applicable if possessing a degree. This determination is made by the York College Registrar.

Completion of at least 100 hours of health care experience to apply. Documentation of at least 200 hours is required for all students prior to starting the Physician Assistant Program.

Screening Procedure for Physician Assistant Program

1. Students who are eligible (see Eligibility for Screening into Physician Assistant Program) should apply early in the Spring preceding the Fall semester in which they hope to enter the program.

The deadline for submission of application and supporting documents is February 28th in the preceding Spring semester.

2. Submission includes:

- Proof of Acceptance to York College for transfer students
- Transcripts of all previous schools attended for transfer students.
- In addition to submitting copies of the transcripts, transfer students not attending York College at the time of application must request a courtesy transcript evaluation from the York College Registrar's office. Without the evaluated transcript, no advisement or screening can be done by the PA program. It is the student's responsibility to obtain the evaluated transcript and submit it to the program office.
- Three letters of reference: Preferred sources include professors, health care professionals, employers etc. Please submit each original letter (copies will be returned) in a sealed envelope, signed across the seal by the reference source to the Admissions Coordinator (address below). References should be on letterhead of the organization or individual and must provide a contact number.
- Documentation of at least 100 hours of **direct** patient care experience (clerical work is **not** considered health care experience). Documentation of 200 hours is required for admission. A letter from the Human Resources department, a supervisor, or an administrator will suffice, but should be on letterhead and must document the hours and task performed and include a contact number. Acceptable experience includes volunteer work or employment in hospitals, clinics, private offices or extended care facilities.
- Completed Physician Assistant Program Application
- Personal statement which should be typed, double-spaced, and should convey the candidate's objectives in seeking admission to the PA program, the personal qualities which make the candidate suited to the profession and any other pertinent information to be shared with the admissions committee. Please limit the statement to 2-3 pages.
- All documents should be submitted to: **Attn: Admissions Coordinator**, York College PA Program, SC-11294-20, Guy Brewer Blvd. Jamaica, NY 11451

3. Selected students will be invited for an interview. An interview does not guarantee admission into the program. Admission to the PA Program is very

competitive. Currently only 30 students are admitted each Fall semester.

4. Students who have not completed all prerequisite courses at the time of application will be considered only upon submission of a plan of study for the completion of all general education and prerequisite courses prior to Fall of the entering year.
5. **There is no advanced standing in the program** regardless of qualifications or experience of the applicant. All candidates must complete the entire 24 month course of study.
6. **Please be aware that the Physician Assistant program will only screen a candidate twice (for two separate years). No subsequent applications will be considered.**

Notice to Students on Criminal Background Checks & Drug Testing

Current laws generally permit a state licensing board or agency to deny a license to practice if the applicant has been convicted of a felony or other specified crime. Like many state licensing boards, the Office of the Professions of the New York State Education Department requires that a criminal background check be conducted prior to granting a license.

The Department of Health Professions at York College does not require a criminal background check for admission to our degree program, but the Department's educational requirements include placement at one or more hospitals or other off-campus clinical training sites, and these sites frequently require a student to undergo a criminal background check before the student can be placed for clinical training.

If, based upon the results of a criminal background check, the site determines that a student's participation in its clinical training program would not be in the best interest of the site, the site may deny that student admission to the training program. Even if the student has already begun the placement when the results are received, the site may elect to dismiss the student, regardless of the student's performance while in the training program. Each clinical training site that requires a criminal background check sets its own standards and procedures, and you may be asked by the site to pay the cost of the background check. You may also have to complete more than one criminal background check during the course of the Health Professions at York

College depending on the number of sites where you are placed and the requirements of each site.

Some clinical rotation sites may also require that students submit to a drug test as a condition of their participation. Students will be responsible for the cost of this testing. Refusal to have a test may result in an inability to complete the rotation and possibly the professional program.

Please note that if a clinical training site determines that you may not take part in its training program based on the results of a criminal background check or drug test (or due to refusal to submit to a drug test), you may be unable to complete your course requirements and to continue in the professional program. *It is important for you to consider this before you enroll in a program offered by the Department of Health Professions at York College, as York College has no obligation to refund your tuition or fees or to otherwise accommodate you in the event you are ineligible to complete your course requirements based on the results of a criminal background check, or if you are denied a license to practice.*

Acceptance into the Physician Assistant Program

Acceptance requires approval by the Physician Assistant Program Admissions Committee. This committee bases its recommendations on the following screening criteria;

- Physician Assistant Program Application and three letters of reference
- Interview
- Grade point average and appropriate courses.
- Candidates previous health care experience
- Written on-site essay at time of Interview

Applicants are not considered accepted into the program until they receive a letter of acceptance from the director of the Physician Assistant Program.

Outside Employment Policy

Applicants to the Physician Assistant Program must assess their ability to pay tuition, equipment expenses, book expenses, travel expenses and other living expenses for themselves and their dependents for the full two years of the program. The program is rigorous, and outside employment is strongly discouraged while attending the PA Program.

Promotion and Retention

- Completion of courses in specific sequence, good academic & professional standing in the College and in the Physician Assistant Program is required for promotion and graduation.
- Retention is based on good academic and professional standing as defined in the PA Program Student Handbook, matriculation at York College and continuing review by the Physician Assistant Program Academic Standing Committee.

Tuition and Fees

PA Program Tuition & Fees are equivalent to the York College Undergraduate Tuition & Fee schedule. Additional expenses specific to the Physician Assistant Program include books, supplies, equipment, travel, professional liability and memberships, field trips and other fees (totals approximate):

- First Semester: \$750
- Second and Third Semester: \$500
- Clinical Semesters: \$250/semester

Financial Aid

In addition to the sources of financial aid available to all college students, there are some sources available specifically for students enrolled in Physician Assistant Programs. Information is available at the Physician Assistant office.

Suggested Program Sequence		47
Fall Semester Didactic Year		15
HSPA301	PHARMACOLOGY I	2
HSPA357	PATHOPHYSIOLOGY	3
HSPA304	INTERVIEWING & COUNSELING	1
HSPA401	PHYSICAL DIAGNOSIS I	3
HSPA337	ANATOMY	3
HSPA305	PA PROFESSION	1
HSPA356	MICROBIOLOGY/IMMUNOLOGY	2
Spring Semester Didactic Year		17
HSPA302	PHARMACOLOGY II	2
HSPA402	PHYSICAL DIAGNOSIS II	3
HSPA410	INTERNAL MEDICINE I	2
HSPA428	PRIMARY CARE I	2
HSPA324	DIAGNOSTIC STUDIES	2
PHIL308WI	BIOMEDICAL ETHICS	3
HSPA449	SURGERY	2
HSPA313	CLINICAL SKILLS	1
Summer Sessions I and II Didactic Year		6
HSPA412	INTERNAL MEDICINE II	2
HSPA430	PRIMARY CARE II	1

HSPA425	CLINICAL CORRELATIONS	1
HSPA408	PSYCHOSOCIAL DYNAMICS	1
HSPA435	EMERGENCY MEDICINE	1
Clinical Year (Each rotation in the clinical year is 5 weeks long)		9
HSPA450	SURGICAL CLINICAL ROTATION	1
HSPA451	INTERNAL MEDICINE CLINICAL ROTATION	1
HSPA453	EMERGENCY MEDICINE ROTATION	1
HSPA454	LONG TERM CARE ROTATION	1
HSPA455	PSYCHIATRY ROTATION	1
HSPA457	OBSTETRICS & GYNECOLOGY	1
HSPA458	FAMILY MEDICINE	1
HSPA459	AMBULATORY CARE MEDICINE	1

Physician Assistant Program Affiliations

- Queens Hospital Center, Jamaica, NY
- St. Albans Veteran Administration Hospital, St. Albans, NY
- New York Hospital Queens, Flushing, NY
- Woodhull Hospital, Brooklyn, NY
- Damian Family Practice, Queens & Bronx, NY
- Twilight Medical, PC, New York, NY
- St. Francis Hospital, The Heart Center, Roslyn, NY
- Alan S. Detweiler, D.O., Far Rockaway, NY
- The Holliswood Hospital, Holliswood, NY
- Margaret Tietz Nursing and Rehabilitation Center, Jamaica, NY

Physician Assistant National Certification Examination Results:

- Please see PA Pass Rate Summary Report^[58]

Technical Standards

The following technical standards for admission establish the mental and physical abilities students’ need for successful completion of the Physician Assistant Program and eventual PA practice. York College offers a variety of services, activities and accommodations to students with disabilities, mainly through two offices – the Coordinator of Disability Services and the York Enrichment Services (Y.E.S.) for Students with Disabilities. All students admitted to the York College Physician Assistant Program are expected to be able to perform the listed tasks, with or without reasonable accommodations. Every effort will be made to provide reasonable accommodations to students with documented disabilities.

- PA students must be able to sustain attention, reason, analyze, assimilate and learn a large amount of information. Information from various disciplines and sources must be correlated and concepts applied to develop therapeutic plans and solve clinical problems in a timely fashion. The ability to extract valid, useful and relevant information from the medical literature is also required.
- PA students must be able to observe in lecture, laboratory and clinical patient care settings. PA students must have adequate sensory skills to elicit medical histories and to perform complete physical examinations utilizing inspection, percussion, palpation and auscultation include adequate vision, hearing and tactile sensation.
- PA students must be able to communicate with patients in a sensitive manner and also record and communicate patient information in a timely and effective manner to other members of the health care team.
- PA students must have adequate neuromuscular control to perform therapeutic and diagnostic procedures (such as blood drawing, suturing, casting etc.), to respond to emergency situations and to move about various health care environments. The didactic phase of the program requires extended sitting, in contrast to the clinical phase which requires extended standing and moving about various clinical facilities.
- PA students must be able to relate to and develop good professional rapport with other members of the health care team. PA students must also maintain composure during periods of stress and respond appropriately to emergency situations. Recognizing limitations, demonstrating concern for patients and exercising good judgment are also required attributes.

All students with a documented disability are encouraged to sign up in Room 1G02 (Tel. 262-2272) and take advantage of services provided by the Coordinator of Disability Services and the Y.E.S. program. These services include individual and group counseling; individual orientation and registration assistance; readers & interpreters; modified instruction and examination procedures; textbook loan program; assistance in use of adaptive equipment and technology and coordination of disability-related accommodations.

Questions about the program’s technical standards may be directed to the program director or the Coordinator of

58. <http://www.york.cuny.edu/academics/departments/health-professions/physician-assistant/pa-pass-rate-summary-report/view>

Disability Services. All information regarding disabilities is handled in a confidential manner. All requests for accommodations are voluntary and must be made in writing prior to beginning coursework.

Department of Health and Physical Education

Agin, Denise, Associate Professor

Ajuluchukwu, David, Associate Professor and Chair

Barley, Linda, Professor

Brodsky, Mitchell, Associate Professor

Costley, Alex, Assistant Professor

Glaser, Debra, Assistant Professor

Grosskopf, Nicholas, Assistant Professor

Lane, Charlene, Assistant Professor

Ogle, Patricia, Lecturer

Werber-Zion, Galila, Associate Professor

Community Health Education (BS)

HEGIS Number 0837

The Community Health Education major is designed to prepare specialists skilled in designing, planning, and implementing health education programs for individuals, groups, and communities to engage in voluntary change in behavior conducive to health. Settings in which Community Health Educators are employed are:

1. Hospitals and other health-care institutions in patient education programs.
2. Community-based health education programs initiated by health departments, Boys & Girls Clubs, community clinics and outreach services.
3. National health-related agency programs including such organizations as the American Cancer Society, The American Lung Association, The National Foundation-March of Dimes, The American Red Cross, The National Safety Council and the American Medical Association. In addition, students are prepared to enter graduate programs in health education and related fields.

Major Discipline Requirements		45
Required Major Discipline Courses		27
HE201	Foundations of Health and Wellness	2
HE219	Health Services	3

HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE321	Health Counseling	3
HE331	Program Planning	3
HE471	Field Work	1
HE472	Field Work	1
HE473	Field Work	2
HE474	Field Work	2
HE481	Organization and Administration of Health Education	3
BIO281	Human Structure and Function	4
Elective Major Discipline Courses		12
GERO301	Wellness and The Elderly	3
HE200	Basic Cardiac Life Support	1
HE211	Stress and Health	2
HE241	Sex and Sexuality	3
HE312	Health and Disease	3
HE313	Alcohol and Alcoholism	3
HE314	Nutrition and Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE317	First Aid and Safety Education	2
HE341	HIV/AIDS: Public Health Implications	3
HE342	Drug Use and Abuse	3
PE358	Physiology of Exercise	3
HE420	Alcoholism Counseling	3
HE450	Practicum in Health Education	2
HE452	Cardiovascular Fitness	3
Psychology Electives Select two from the following		6
PSY215	Human Development I: Infancy/Childhood	3
PSY216	Human Development II: Adolescence/Maturity	3
PSY283	Psychology of Death and Dying	3
PSY332	Social Psychology	3
PSY338	Abnormal Psychology	3

*Prospective Community Health Education majors are required to take Biology 120, which may be used toward fulfillment of the Natural Science Area requirements.

Registered nurses are exempt from Biology 281 under Group I; they are required to complete at least 8 credits under Group II.

Gerontological Studies and Services (BS)

HEGIS Number 2299.01

This interdisciplinary program of study provides an opportunity for students to develop a compassionate and constructive view of older adults and the process and problems of aging. Graduates of this program will be prepared to continue their education at the graduate level, or to enter employment in their chosen fields. The

Field Work component permits students the opportunity to experience first-hand, the realities of working with well and frail elderly in the field of Gerontological studies and services.

Required Courses		49
Program Requirements		23
GERO101	Introduction to Gerontology I (Interdisciplinary)	3
GERO201	Intermediate Gerontology	3
GERO301	Wellness and the Elderly	3
HE201	Foundations of Health and Wellness	2
HE341	HIV/AIDS: Public Health Implications	3
PSY280	Psychology of Geriatrics	3
PSY283	Psychology of Death and Dying	3
SCWK203	Social Welfare Programs	3
Skills Requirements		14
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE321	Health Counseling	3
HE331	Program Planning	3
PE353	Physical Activity for Special Populations	2
SCWK300	Generalist Social Work Practice I and Skills Lab	3
Elective Requirements Choose two from the following		6
ANTH302	Human Aging Cross-Culturally	3
BIO283	Biology of Aging	3
PE322	Recreation, Organization, and Leadership	3
POL273	Politics of Aging	3
PSY381	Psychological Consequences of Chronic Disability	3
SOC236	Sociology of Aging	3
Field Work		6
HE471	Field Work	1
HE472	Field Work	1
HE473	Field Work	2
HE474	Field Work	2

Gerontology (Minor)

A minor in Gerontology will afford non-majors the opportunity to broaden their knowledge and skills to work with and support the aging.

Required Courses		15
Required Major Discipline Courses		
GERO101	Introduction to Gerontology I (Interdisciplinary)	3
GERO201	Intermediate Gerontology	3
GERO301	Wellness and the Elderly	3
Elective Requirements (Select two courses from the following):		
ANTH302	Anthropology of Aging	3
BIO283	Biology of Aging	3
POL273	Politics of Aging	3
PSY280	Psychology of Geriatrics	3

PSY283	Psychology of Death and Dying	3
SOC236	Sociology of Aging	3

Health Education (Minor)

Required Courses		15
Required Major Discipline Courses		9
HE219	Health Services	3
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE321	Health Counseling	3
Elective Requirements Select two courses from the following:		6
HE200	Basic Cardiac Life Support	1
HE211	Stress and Health	2
HE241	Sex and Sexuality	3
HE312	Health and Disease	3
HE314	Nutrition and Health	2
HE316	Family Health	3
HE317	First Aid and Safety Education	2
HE341	HIV/AIDS: Public Health Implications	3
HE342	Drug use and Abuse	3

Health Promotion Management (BS)

HEGIS Number 0837

The Health Promotion Management specialist develops health promotion programs designed to maintain and/or improve behavior that will enhance the well-being of program participants. Objectives are accomplished through a series of educational, organizational, and environmental activities. Health Promotion programs address personal lifestyle and health issues, such as stress management, exercise and physical fitness, smoking cessation, drug and alcohol abuse, weight control, nutrition education, hypertension and cholesterol control. Initially, program participants are evaluated for present levels of disease, lifestyle behaviors, and risk factors. Interventions are then initiated which focus on the modification of health risks and maintenance of healthy lifestyles. Settings in which Health Promotion Management specialists are employed include: hospitals, private and resort based health and fitness centers, colleges and universities, government agencies, private wellness and health promotion counseling firms, and in worksite health promotion centers.

Major Discipline Requirements		48
Required Major Discipline Courses		36
HE201	Foundations of Health and Wellness	2
HE211	Stress and Health	2
HE219	Health Services	3
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE314	Nutrition and Health	2
HE321	Health Counseling	3
HE331	Program Planning	3
HE342	Drug Use and Abuse	3
PE358	Physiology of Exercise	3
HE363	Measurement and Evaluation in Health and Physical Education	3
HE452	Cardiovascular Fitness	3
HE481	Organization and Administration of Health Education	3
HE488	Health Promotion in the Workplace	3
Business Required Courses		6
BUS301	Management Theory and Practice	3
MKT341	Introduction to Marketing	3
Field Work		6
HE471	Field Work in Health Education	1
HE472	Field Work in Health Education	1
HE473	Field Work in Health Education	2
HE474	Field Work in Health Education	2

* Prospective Health Promotion Management majors must take Economics 102, which may be used toward fulfillment of the Behavior Science Area requirements.

Movement Science (BS)

HEGIS Number 0835

The Movement Science major provides an opportunity to specialize in areas of recreation, athletic coaching, athletic training, cardiovascular fitness, athletic administration, and physical education for people with special needs. A specialization in cardiovascular fitness prepares the student for fitness leadership jobs in business and industrial fields and in private agencies such as the YMCA, YMHA, and cardiac exercise programs. It also gives the student a broad knowledge base to pursue graduate study.

A specialization in recreation offers the student opportunities for careers in community recreation; in Federal, State, and City agencies; and in private organizations, such as nursing homes. Activity specialists coach community and school teams and work in Park Departments. Recreation directors organize and

administer recreation programs for groups of people, and for communities. A major in Movement Science can prepare the student for work as a perceptual-motor therapist and/or a physical educator for the physically or emotionally challenged, or with the elderly. Movement Science majors choose which discipline they will study to complete the Interdisciplinary Requirement. Newest among the options is the Athletic Training option (Physical Education Athletic Training - PEAT). The department is currently engaged in the Self Study phase which leads to national certification by the National Athletic Trainer Association (NATA). Students are encouraged to seek academic advisement in the Department as early as possible.

Required Courses		49
Skills courses*		6
	select 6 credits from any 100-200*- level course and/or from Physical Education, 311, 312, 313	
Required Major Discipline Courses		23
PE215	Basics of Motor Development and Motor Learning	3
PE350	Principles and Foundations of Physical Education	2
PE358	Physiology of Exercise	3
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE365	Research and Writing in Health and Physical Education	3
PE368	Physical Education, Sports and Society	3
PE452	Cardiovascular Fitness	3
Concentration Areas Choose one of the following		
Concentration Areas		
Community Coaching/Personal Training		20
Choose 14 Credits from the following PE courses		
PE322	Recreation, Organization, and Leadership	3
PE353	Physical Activity for Special Populations	2
PE355	Psychology of Sport and Motor Performance	2
PE360	Theories and Techniques of Coaching	2
PE487	Adult Fitness Programs	3
PE471	Field Work in Physical Education and Recreation	1
PE472	Field Work in Physical Education and Recreation	1
PE473	Field Work in Physical Education and Recreation	2
PE474	Field Work in Physical Education and Recreation	2
	Proof of a current First Aid/CPR certification	
Interdisciplinary Requirements		6
	6 credits in one of the following categories 200 level or above: Natural science (Biology, Chemistry, or Physics) Psychology Social Science (Sociology, Anthropology) Business and Economics Health Education	
Athletic Training		20
PEAT310	Introduction to Athletic Training and Sports Medicine	3

PEAT318	Field Work: Introduction to Athletic Training and Sports Medicine	1
PEAT320	Therapeutic Exercise and Evaluation	3
PEAT328	Field Work: Therapeutic Exercise and Evaluation	2
PEAT330	Scientific Basis in Athletic Training	3
PEAT338	Field Work: – Scientific Basis in Athletic Training	2
PEAT340	Modalities and Management Strategies in Athletic Training	3
PEAT348	Field Work: Modalities and Management Strategies in Athletic Training	3
	Proof of a current First Aid/CPR certification.	

*200-level Independent Study courses do not fulfill the skills courses requirements

Physical Education (BS)

HEGIS Number 0835

Students planning to seek New York State teaching certification in Physical Education K-12 are required to file an application for admission form in the Teacher Education Program during their sophomore year. The Physical Education Program, prepares candidates with the knowledge and understanding, competencies, and professionalism required for teaching physical education to children and adolescents in grades K-12. Candidates completing the Program are eligible to apply for New York State initial certification in Physical Education, Grades K-12.

The Instructional Program

The instructional program of Physical Education skills courses is designed to encourage the participation of the individual in regular physical activity throughout his or her life. Physical activity is viewed as an essential part of the life of the liberally educated person. Physiological and psycho-social benefits accrue to the participant. Courses emphasize individualized skill development in a broad range of lifetime sport activities that are fun and educational.

All Physical Education courses are coeducational.

EFFECTIVE FALL 2012		
Major Discipline Requirements		42
Group I*		
HE210	Health Issues for the Physical Educator	2
PE215	Basics of Motor Development and Motor Learning	3
HE314	Nutrition and Health	2

PE350	Principles and Foundations of Physical Education	2
Group II**		
PE353	Physical Activity for Special Populations	2
PE355	Psychology of Sport and Motor Performance	2
PE358	Physiology of Exercise	3
PE360	Theories and Techniques of Coaching	2
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE368	Physical Education, Sports and Society	3
PE452	Cardiovascular Fitness	3
Physical Education Skills courses		12
Team Sports: Choose 4 Credits from the following		4
PE151	Basketball	1
PE158	Football	1
PE162	Lacrosse	1
PE163	Softball	1
PE164	Soccer	1
PE165	Volleyball	1
PE181	Badminton	1
Dance: Choose 1 Credit from the following		
PE173	Folk and Social Dance	1
PE176	Modern Dance I	1
PE183	African Dance	1
PE278	Modern Dance II	1
Individual Sports: Choose 3 Credits from the following		3
PE141	Weight Training	1
PE154	Track and Field	1
PE159	Self-Defense Activities	1
PE166	Yoga	1
PE167	Handball	1
PE171	Tennis	1
PE271	Competitive Tennis	1
Outdoor Sports: Choose 1 Credit from the following		1
PE170	Canoeing	1
PE177	Small Boat Sailing	1
PE178	Outdoor Living: Hiking and Backpacking	1
PE279	Leadership in Outdoor Living	1
PE280	Winter Mountaineering	1
Aquatics: Choose 1 Credit from the Following		1
PE182	Swimming for Non-Swimmers	1
PE282	Swimming	1
PE284	Skin and Scuba Diving	1
PE285	Senior Life Saving	1
PE287	Water Safety Instructor	2
One Course		
PE139	Instructional Methodologies of Teaching Sports Skills	2
Education Certification requirements		
Foundation Courses		31-32
AC230	Teaching with Multimedia Technology***	2
EDUC280	Child and Adolescent Development for Teachers	3

EDUC283	Effective Teaching and Learning	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers#	4
Choose One		
SOC202	Evolution of Major Ideas and Issues in Education	3
PHIL202	Evolution of Major Ideas and Issues in Education	3
Methods Courses		
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC341	Curriculum and Methods in Physical Education, K-12	4
Student Teaching		
EDUC448	Supervised Teaching, Physical Education, Grades K-6	4
EDUC449	Supervised Teaching, Physical Education, Grades 7-12	4

*All Physical Education K-12 majors, including transfer students, are required to take the PE 150 Fitness for Living course prior to taking Group II courses

** Courses listed in Group I must be completed before taking courses from Group II.

***Students who do not evidence technology competencies may need to take AC101 in order to graduate.

#Majors must complete 2 Mathematics courses, MATH 111 and a second Mathematics course selected from MATH 271 or among the Mathematics General Education.

Proof of a current First Aid/CPR certification should be presented to the department at least three months prior to graduation.

Department of Occupational Therapy

Auremma, Donald, Associate Professor

Avi-Itzhak, Tamara, Associate Professor

Faust, Sharon, Associate Professor

Horowitz, Beverly, Associate Professor

Kaplan, Lillian, Associate Professor

Krauss, Andrea, Associate Professor and Chair

Occupational Therapy (BS/MS)

HEGIS Number 1201/1208

Career Description

According to the American Occupational Therapy Association ^[59], Occupational Therapy is skilled treatment that helps individuals achieve independence in all facets of their lives. It gives people the "skills for the job of living" necessary for independent and satisfying lives.

Mission Statement

To provide entry level professional skills in occupational therapy to a diverse urban population through evidence-based educational, fieldwork and community experiences. Graduates will be prepared to contribute to, and participate in the profession through direct service delivery, management of service delivery and research.

Educational Goals

The OT Program will prepare students to:

- Be active learners who utilize analysis and synthesis for critical thinking. Students will become self-aware, innovative, able to handle ambiguity and conflict and develop creative problem solving skills.
- Develop effective oral and written communication skills for collaborating with clients, colleagues, and families in a variety of contexts.
- Identify evaluate and apply research that supports practice decisions.
- Be life long learners who participate in and contribute to professional organizations and activities.
- Develop sound ethical practices and behaviors as practitioners, consultants, educators, researchers and administrators.
- Understand and intervene in social policies, communities, organizations, groups and individuals.
- Be role models who demonstrate a commitment to the college, community and the profession.

Program Philosophy

In line with of The American Occupational Association's Philosophy of Education (AOTA,2003) , the Occupational

Therapy Program at York College emphasizes how human beings are dynamic and complex in nature. That human beings are constantly interacting in many different environments through their participation in occupations. These interactions occur in many different contexts and provide opportunities for growth throughout the lifespan. Active participation in occupations fosters adaptation and new learning, which in turn leads to further participation in meaningful occupations that enable human beings to develop the necessary skills for survival and self-actualization.

The occupational therapy faculty believes that learning is a collaborative process with students as active participants; the faculty will provide the varied contexts for learning experiences through both meaningful activities and didactic instruction. The students become increasingly self-directed in their movement through the program. Through the collaboration between faculty and students, students build upon prior academic knowledge, integrate new knowledge, learn clinical reasoning and how to become more self-reflective. The outcome of this process is a graduate who can synthesize their leaning and experiences from the program and go on to improve the lives of individuals who need occupational therapy services.

Our goals for our graduates are consistent with both the York Vision and the AOTA Vision in that we see our graduates as they go out into the workforce as critical thinkers who will continue to engage in ongoing learning, continue to improve their skills, contribute to the growth of the profession in practice and/or research in their communities, regionally and nationally.

Curriculum Design

The curriculum design of York College CUNY Occupational Therapy Program is based on the interaction of content knowledge concepts and occupational therapy process concepts. It is our belief that the interaction of these delineates the substance and the process of what occupational therapists know and do. Furthermore, the matrix of these interactions serves as an organizer for the relationship between the courses in our curriculum and the content within them.

Knowledge Concepts

Foundations. Foundational knowledge includes introductory factual and conceptual knowledge related to client factors (e.g., body structures, body functions, values, beliefs), performance skills (e.g., sensory, motor, emotional, cognitive) and patterns (e.g., habits, routines), performance contexts and environments (e.g., cultural, personal, physical), activity demands (e.g., objects properties, space demands, social demands), areas of occupation (e.g., activities of daily living, instrumental activities of daily living, work, education, play), ethics, social justice, clinical management and clinical research.

Skills. Skills build on foundational knowledge, and include the acquisition and practice of **cognitive** operations necessary for problem identification and problem resolution, clinical reasoning, as well as analysis of clinical and research data; **procedural** skills necessary for analyzing and sequencing client task performance, administering assessments and interventions, eliciting adaptive responses, implementing activities using effective strategies; **affective** skills necessary for engaging and enabling client collaboration in the occupational therapy process, receiving and responding to feedback, valuing perspectives of others, weighing ethical issues, and therapeutic use of self; **motor** skills necessary for assisting clients, constructing and adjusting client devices, administering assessments and interventions, and arranging and adapting the physical environment.

Applications. Applied knowledge includes the integration of foundational knowledge and skills, using multiple theoretical approaches (e.g., developmental, motor learning, cognitive-behavioral, prevention) for implementing the occupational therapy process for clients, populations and organizations using various service delivery models (e.g., consultation, rehabilitation, home health, outpatient, community health), with sensitivity for cultural contexts, and social justice. Application also includes analysis and evaluation of client progress, new knowledge acquired from the research literature, and ethical issues associated with the occupational therapy process.

AOTA Commission on Practice. (2008). Occupational Therapy Practice Framework: Domain & Process, 2nd ed., *AJOT*, 62, 625-683.

Anderson, L.W., & Krathwohl, D. R. (2001). *A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives*. New York: Longman.

The Occupational Therapy Process

Evaluation. Evaluation includes selecting appropriate methods and measures to screen and evaluate individual clients, client populations, environments, and communities for the purpose of identifying occupational problems and potential resolutions. Evaluation also involves the appropriate administration and interpretation of selected tools and methods of assessment, including but not limited to observation, standardized testing and interviews. Evaluation includes measurement and documentation of change.

Intervention. Intervention includes the selection (based on activity analysis) and implementation of preparatory methods (e.g., sensory enrichment, instruction, orthotics), purposeful activities (e.g., practices, rehearses), and occupation-based tasks (e.g., prepares lunch, completes job application) which are meaningful to the client and consistent with the client's goals. Intervention can also include consultation, education and advocacy.

Outcomes. Outcomes for the individual client must be based on appropriate, reliable and valid measures. Outcomes can also focus on a population, or organization. Outcomes most commonly address occupational performance, participation, quality of life, as well as occupational justice.

AOTA Commission on Practice. (2008). Occupational Therapy Practice Framework: Domain & Process, 2nd ed., *AJOT*, 62, 625-683.

Accreditation and Credentials

1. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA.
2. The BS/MS in Occupational Therapy is conferred when the Occupational Therapy Program requirements are fulfilled, including successful completion of all Occupational Therapy Major

Discipline requirements, in addition to York College's General Education Requirements for the Bachelor of Health Science Degree.

3. Certification: Upon completion of all requirements, the graduate is permitted to sit for the Certification Examination of the National Board for Certification in Occupational Therapy, Inc.
4. Licensure: Upon completion of all requirements, the graduate is permitted to apply to New York State for licensure as a Registered Occupational Therapist.

Eligibility for Screening into Upper Level Occupational Therapy Program

- Completion of a minimum of 60 college credits and be a matriculated student at York college.
- Completion and documentation of at least 50 hours of volunteer work in an Occupational Therapy setting.
- Overall grade point average of 2.80
- Completion of all college and pre-major course requirements.
 - Biology 201 and 202
 - Chemistry 101
 - One College-level Statistics Course
 - Psychology 102
 - Psychology 214 OR Psychology 215 and 216
 - Psychology 338
 - Sociology 101
 - Writing 303*

Note: Please note that in order to be eligible for admission to the OT program at York, you must also apply and be accepted for matriculation at York College. In addition, all applicants must pass all skills assessment tests. All General Education Requirements must be registered for or completed by the end of the Spring semester in which the student applies for screening.

* Students who complete a Bachelor's degree prior to entry into the Occupational Therapy program will be waived from Writing 303.

EFFECTIVE FALL 2012		
Major Discipline Requirements		88
OT313	Fundamentals of Occupational Therapy	3
OT315	Functional Human Anatomy	4
OT316	Functional Human Physiology	4
OT318	Clinical Kinesiology/Lect. & Lab.	4
OT319	Common Medical Conditions	3
OT321	Occupational Analysis	3
OT322	Occupations Through the Life Span	3
OT403	Advanced Occupational Analysis	3

OT411	Occupational Therapy Process I: Pediatric Intervention	4
OT417	Research Methods	3.5
OT423	Collaboration in Occupational Therapy	4
OT432	Neuroscience	3.5
OT504	Advanced Neuroscience	4
OT505	Occupational Therapy Process I: Physical Intervention	4
OT506	Occupational Therapy Process II: Physical Intervention	4
OT508	Occupational Therapy Process I: Psychosocial Intervention	4
OT509	509 Occupational Therapy Process II: Psychosocial Intervention (WI)	4
OT513	Systems Management	3
OT517	Research Design	3
OT518	Research Seminar I	1
OT519	Research Seminar II	1
OT522	Research Seminar IV	2
OT523	Use of Orthotics in Occupational Therapy	1
OT524	Use of Physical Agent Modalities in Occupational Therapy Practice	1
OT641	Fieldwork II Occupational Therapy Practice I	1
OT642	Fieldwork II Occupational Therapy Practice II	1
OT643	Capstone Community Experience	4
OT644	Advanced Occupational Therapy Theory & Practice	3
OT645A	Occupational Therapy Practice	3
or		
OT645B	Occupational Therapy Practice	3
OT647	Assistive Technology	2

Screening Procedures for Occupational Therapy Program

1. Screening takes place during the Spring semester for Fall acceptance into the program.
2. Students can download the Occupational Therapy program application from the department’s website, or can request a hard copy from the department’s office.
3. Screening takes place during the Spring semester for Fall acceptance into the program.
4. York College transcript, or York College evaluation of transfer credits for students transferring into York College.

Acceptance into the Occupational Therapy Program

Approval by the Occupational Therapy Screening Committee. This committee bases its recommendation on the following screening criteria:

- a. Department of Occupational Therapy Application and two specific letters of reference.

- b. Completion of a minimum of 50 hours of volunteer work under the supervision of an Occupational Therapist.
- c. Minimum grade point average of 2.80 and required courses.
- d. On site writing sample composed on a computer. Applicants are not considered accepted into the program until they receive a letter of acceptance from the Chair of the Department of Occupational Therapy.

Applicants are not considered accepted into the program until they receive a letter of acceptance from the Chair of the Department of Occupational Therapy.

All Occupational Therapy courses must be taken in the prescribed sequence.

The Occupational Therapy BS/MS Degree takes three and a half (3.5) academic years to complete. The program consists of 84 specialized occupational therapy credits, spread over seven (7) semesters.

Course Sequence		
Third Year:		
Fall		credits
OT313	Fundamentals of Occupational Therapy	3
OT315	Functional Human Anatomy / Lecture	4
	Functional Human Anatomy / Lab	
OT322	Occupation Through the Life Span	3
OT321	Occupational Analysis	3
Spring		
OT316	Functional Human Physiology / Lecture	4
	Functional Human Physiology / Lab	
OT318	Clinical Kinesiology / Lecture	4
	Clinical Kinesiology / Lab	
OT319	Common Medical Conditions	3
OT423	Integration of Collaboration	4
	in Occupational Therapy	
Fourth Year:		
Fall		
OT403	Advanced Occupational Analysis	3
OT432	Neuroscience	3.5
OT417	Research Methods	3.5
OT411	Occupational Therapy Process I: Pediatric Intervention	4
OT446	Independent Study of Selected Topics in Occupational Therapy	3*
Spring		
OT504	Advanced Neuroscience	3
OT505	Occupational Therapy Process I: Physical Intervention	4

OT508	Occupational Therapy Process I: Psychosocial Intervention	4
OT517	Research Design	3
OT518	Research Seminar I	1
Fifth Year:		
Fall		
OT506	Occupational Therapy Process II: Physical Intervention	4
OT509 (WI)	Occupational Therapy Process II: Psychosocial Intervention	4
OT513	Systems Management	3
OT519	Research Seminar II	1
OT646	Independent Study of Selected Topics in Occupational Therapy	3*
Spring		
OT641	Fieldwork II (Full-time Internship Experience)	1
	Occupational Therapy Practice I	
OT642	Fieldwork II (Full-time Internship Experience)	1
	Occupational Therapy Practice II	
Sixth Year:		
Fall		
OT522	Research Seminar IV	2
OT643	Capstone Community Experience	4
OT644	Advanced OT Theory and Practice	3
OT645A or OT645B	Occupational Therapy Practice Seminar	3
OT total credits in the major required for the BS/MS		84
* Not required for graduation		

Promotion and Retention:

Completion of the course of study approved by the student's occupational therapy faculty advisor. Completion of courses in specified sequence, good academic standing in the College and in the Occupational Therapy Program and completion of Master's level project is required for graduation.

Program Standards:

Students will also be required to maintain a minimum GPA of 2.80 in each semester of their undergraduate coursework (300 and 400 level courses) per semester and 3.0 in each semester of their graduate coursework (500 and 600 level courses) per semester. Students who fall below these minimum requirements will be placed on academic probation and will be given one semester to raise their GPA to minimum standards. A failure to raise the GPA to minimum standards will be considered grounds for dismissal from the OT program. In addition, being placed on academic probation for any

two semesters during the 3.5 years of the professional curriculum will be grounds for dismissal.

*Students will not be allowed to transition from the BS to the MS component of the program with an academic deficit (overall GPA for 300 and 400 level courses must be 2.80).

*Students will not be eligible to graduate with an academic deficit (overall GPA for 500 and 600 level courses must be 3.0)

Course Standards for Retention:

The lowest acceptable grade for Occupational Therapy course is a "C-". Students who receive below a "C-" grade must repeat the course. Students will have only one opportunity to repeat any course.

A grade of "D" or below in any two courses within the 3.5-year curriculum, or failure of two courses in one semester, constitutes grounds for dismissal from the occupational therapy program. Two failures of Level II Fieldwork constitute grounds for dismissal from the program.

Continuing review by the Occupational Therapy Evaluation and Selection committee.

The Occupational Therapy Evaluation and Selection Committee may dismiss a student from the program due to any infraction(s) of the Rules of Student Conduct on Campus or a breach of Occupational Therapy Ethics. This includes cheating, plagiarism, the use of drugs, and / or other activities mentioned under the Guide for Student Development.

Length of time in program

Students who are accepted into the Occupational Therapy program for the BS/MS degree have five and a half (5.5) academic years to complete the program. All Fieldwork Level II experiences must be completed within 12 months of completing academic coursework. Please note that Fieldwork Level I experiences cannot be substituted for Fieldwork Level II experiences.

Please Note: In the event of dismissal from the program due to any of the items (1 – 4) mentioned above, the student has the right of appeal, first to the Occupational Therapy Evaluation and Selection Committee, and

second, to the York College Academic Standards Committee. The student must come before the Committees in order to continue in the program. Students who enroll in a semester for OT 641 and 642 will be considered as registered for a full-time program.

* The OT course sequence, credit allotment and curriculum organization are subject to change.

Department of Occupational Therapy Fieldwork Sites

Affiliation	Clinical Associate
Avalon Gardens Rehab & Healthcare Center	Tami McGowan, OTR/L
Barrier Free Living	Patricia Motus, OTR/L
Bellevue Hospital Center	Ai Lian Lim, OTR/L
Beth Israel Medical Center	Elliot Katz, OTR/L
Beth Israel Medical Center/Psych	Mary Petti Weber, OTR/L
Brooklyn Community Medical	Miriam Lichter, OTR/L
Brooklyn Hospital Center	Beata Nowak
Brooklyn VA Medical Center/Psych	Larry Deemer, OTR/L
Coler/Goldwater Memorial Hospital	Anu Kukade, OTR/L
Coney Island Hospital	Lisa Bosse, OTR/L
Creedmoor Psychiatric Center	Curtisse Waddy, OTR/L
Cross Roads School	Carolyn Leger, OTR/L
Elmhurst Hospital Center	Kishori Mehta, OTR/L
EuroFitness Pediatric Rehab Center	Steve Kashulsky, OTR/L
Greater Harlem Nursing Home	George Mwangi, OTR/L
Harlem Hospital/Rehab.	Suzette Moseley, OTR/L
Henry Street Settlement	Melanie Austin, OTR/L
Henry Viscardi School	Christopher Marotta, OTR/L
Jewish Home & Hospital - Bronx	Glenn Stewart, OTR/L
Jewish Home & Hospital - Manhattan	Yolanda Delgado, OTR/L
Kidz Therapy Services	Christina Davis, OTR/L
Kingsbrook Medical Center	Jangir Sultan, OTR/L
Long Island Jewish/Hillside Medical Center	Loretta Cummins OTR/L
Lutheran Medical Center	Romana Ahmad, OTR/L
Manhattan Psychiatric Center	Colette Noel, OTR/L
Mercy Medical Center	Sandy Abolafia
Metropolitan Hospital Center	Frances Gary Blount, OTR/L
Northshore University Hospital (Glen Cove)	Caralynn Ross, OTR/L
New York State Psychiatric Institute	Elaine Mullen, OTR/L
NYU - Rusk Institute for Rehab Medicine	Nandita Singh, OTR/L
Peninsula Hospital	Caroline Craft, OTR/L
Positive Beginnings	Rose Tanis, OTR/L
Queens Boulevard Extended Care Facility	Haddassah Zern, OTR/L
Queens Hospital Center	Bernadita Sapugay, OTR/L

Shorefront Center for Rehabilitation and Care	Raquel Galan, OTR/L
St. Luke's Hospital/Psych	Alison Rangel, OTR/L
South Oaks Hospital/Psych	Fran Babiss, OTR/L
St. Barnabas Hospital	Michelle Chin, OTR/L
The Summit School	Jeanette Hutter, OTR/L
Transitions of Long Island	Patricia Kearney, OTR/L
Village Care of New York	Patricia Motus, OTR/L

Department of Social Sciences

Acker, Gila, Professor and Chair

Araya, Mesfin, Associate Professor

Divale, William, Professor

Gregory, Michele, Associate Professor

Letteney, Susan, Professor

Levey, Tania, Associate Professor

Moldovan, Vadim, Associate Professor

Oglensky, Bonnie, Associate Professor

Rivera-Maestre, Rebecca, Assistant Professor

Rodgers, Selena, Assistant Professor

Rosenthal, Beth, Professor

Zhang, Xiaodan, Associate Professor

Anthropology (BA)

HEGIS Number 2202

Anthropology is a comprehensive science of humankind concerned with a comparative and holistic approach to the study of human society and culture. The major in anthropology provides an excellent background for students planning careers as teachers and administrators, and for those whose future career will involve working and communicating in a multi-cultural setting. The anthropology program has a focus in applied anthropology. Students learn quantitative and qualitative research skills that make them employable in a wide variety of settings, as well as preparing them for graduate studies.

Major Discipline Requirements (30 Credits)		
Required Courses 12 Credits		12
ANTH101	Introduction to Cultural Anthropology	3
ANTH220	Social Research I	3
ANTH321	Social Research Methods II	3

OR		
ANTH310	Techniques of Cross-Cultural Research	3
ANTH490	Independent Study	3
Six elective courses in Anthropology, Sociology, or African American Studies (At least three courses must be in Anthropology, and at least three of the six courses must be numbered 300 or higher)		18

Students who are also concentrating in Teacher Education should take Sociology 202 - Evolution of Major Ideas and Issues in Education as one of the five elective courses. That course will satisfy both requirements in Anthropology and Teacher Education.

Anthropology (Minor)

The Anthropology minor is designed to meet the needs of students who are majoring in other areas but want additional comparative and holistic knowledge about human beings and human society. It is also for students who will be working in a multicultural world and need to understand the role of culture in forming human differences in thought, behavior, and custom.

Requirements		15
ANTH101	Introduction to Cultural Anthropology	3
Four additional courses in Anthropology		12

Medical Anthropology (Minor)

Requirements 15 Credits		15
Required Courses 6 credits		6
ANTH151	Medical Anthropology	3
SOC245	Medical Sociology	3
Choose 3 from the following		9
ANTH201	Ethnopsychiatry	3
ANTH205	Anthropology of Sex	3
ANTH301	Alcoholism & Obesity Cross-Culturally	3
ANTH303	Food & Culture	3
ANTH442	Culture & Personality	3

Urban Anthropology (Minor)

Effective Fall 2010		
Requirements 15 Credits		15
Required Courses (9) credits		9
ANTH223	The Rise of Civilization	3

ANTH311	Urban Anthropology	3
SOC289	Urban Sociology	3
Choose two from the following		6
AAS285	The Urbanization of the American Black	3
HIST202	The Emergence of Urban America	3
SOC366	Sociology of Modernization & Development	3
ANTH490	Independent Field Study in Urbanization	3

Black Studies (BA)

HEGIS Number 2211

BLACK STUDIES BA (Fall 2012)		30
Required Introductory Course.		3
Choose one from the following		
BLST101	Introduction to Black Studies	3
BLST102	The Unforgiving Mirror: Race and Racism in Contemporary Society	3
BLST103	Black Women in the Atlantic World	3
BLST104	Introduction to Africa	3
Required Courses		12
HIST276	History of Africa from 1800 to Present	3
BLST202	Black Experience in the Caribbean	3
HIST272	African American History	3
Choose One:		
BLST401	Seminar	3
BLST490	Directed Research	3
Black Studies Electives:		15
Choose 15 Credits from the following courses. At least 6 credits MUST be at the 300 level or higher.		
ANTH241	Ethnology of Africa	3
BLST213	African American Religions and Religious Practice	3
BLST220	Western African Literature in English	3
BLST222	Caribbean Literature in Translation	3
BLST237	The Contemporary Legacy of Slavery in the U.S.	3
BLST241	The Urbanization of Contemporary Africa	3
BLST242	The Urbanization of Contemporary American America	3
BLST261	Folklore: The African in American	3
BLST262	Black American Culture	3
BLST285	Environmental Justice in North America	3
BLST286	Africa and the Columbian Exchange	3
BLST323	Mass Media, the Internet, and Black Communities	3
BLST325	Historiography in Black Studies	3
BLST331	The Civil Rights Movement in America	3
BLST342	Third-World Consciousness in Africa	3
BLST343	The Contemporary Black Experience in South Africa	3
BLST345	Black Revolutionary Thought	3
BLST348*	Heritage, Culture and Memory	3
BLST349*	Race, Housing and Community	3

BLST353	Boys to Men: From Black Macho to Black Male Feminist	3
BLST354	The Role of Black in the American Economy	3
BLST364(WI)	Social Movement in the African Diaspora	3
ENG298	Special Topics	3
ENG357	The Literature of the Harlem Renaissance	3
ENG392	African-American Literature	3
FA296	African Art	3
FA398	Afro-American Art	3
HIST274	The American Ethnic Experience	3
HIST275	African History until 1800	3
HIST279	History of African American Music, Emphasis on Hip Hop	3
HIST313	The Civil War	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization of West Africa	3
HIST376	West Africa Since Independence	3
MUS250	Afro-American Music in the United States	3
MUS253	History of Jazz	3
SOC366	Sociology of Modernization and Development	3
WLIT210	North African Literature	3

* Course is cross listed with an Anthropology course of the same number

Black Studies (Minor)

BLACK STUDIES MINOR (Fall 2012)		15
Required Introductory Course		3
Choose One from the Following:		
BLST101	Introduction to Black Studies	3
BLST102	The Unforgiving Mirror: Race and Racism in Contemporary Society	3
BLST103	Black Women in the Atlantic World	3
BLST104	Introduction to Africa	3
Foundation Courses		6
Choose 2 courses from the Following:		
BLST202	The Black Experience in the Caribbean	3
HIST272	African American History	3
HIST276	African History from 1800 until the Present	3
Black Studies Electives		
Choose 2 Courses from the Following;		
ANTH241	Ethnology of Africa	3
BLST213	African American Religions and Religious Practice	3
BLST220	Western African Literature in English	3
BLST222	Caribbean Literature in Translation	3
BLST237	The Contemporary Legacy of Slavery in the U.S.	3
BLST241	The Urbanization of Contemporary Africa	3
BLST242	The Urbanization of Contemporary American America	3

BLST261	Folklore:The African in America	3
BLST262	Black American Culture	3
BLST285	Environmental Justice in North America	3
BLST286	Africa and the Columbian Exchange	3
BLST323	Mass Media, the Internet, and Black Communities	3
BLST325	Historiography in Black Studies	3
BLST331	The Civil Rights Movement in America	3
BLST342	Third-World Consciousness in Africa	3
BLST343	The Contemporary Black Experience in South Africa	3
BLST345	Black Revolutionary Thought	3
BLST348*	Heritage, Culture and Memory	3
BLST349*	Race, Housing and Community	3
BLST353	Boys to Men: From Macho to Black Male Feminist	3
BLST354	The Role of Black in American Economy	3
BLST364	Social Movement in the African Diaspora (WI)	3
ENG298	Special Topics	3
ENG357	The Literature of the Harlem Renaissance	3
ENG392	African American Literature	3
FA296	African Art	3
FA398	Afro-American Art	3
HIST274	The American Ethnic Experience	3
HIST275	African History until 1800	3
HIST279	History of African American Music, Emphasis on Hip Hop	3
HIST313	The Civil War	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization of West Africa	3
HIST376	West Africa Since Independence	3
MUS250	Afro-American Music in the United States	3
MUS253	History of Jazz	3
SOC366	Sociology of Modernization and Development	3
WLIT210	North African Literature	3

* Course is cross-listed with an Anthropology course of the same number.

Social Work (BS)

HEGIS Number 2104

The Social Work Program, accredited by the Council on Social Work Education, prepares students for the beginning level of professional social work practice and for graduate school. The curriculum provides students with a solid liberal arts foundation and a generalist social work education, including professionally supervised training in agencies. Two admission procedures are required in order to advance to the upper division (SCWK 360 and above) and to the fieldwork portion of the Social Work Program: admission to the Social Work

Program; and admission to Social Work Field Education. Students also must satisfy retention criteria.

Major Discipline Requirements		
Support Courses*		32
AC101	Introduction to Microcomputers	1
ANTH101	Introduction to Cultural Anthropology	3
BIO130	Biology of the Brain and Behavior	3
ENG125	Introduction to College Writing	4
HE312	Health and Disease	3
POL103	Politics and Government in the United States	3
PSY102	Introductory Psychology	3
PSY215	Human Development I	3
PSY216	Human Development II	3
SOC101	Introduction to Sociology	3
WRITE303	Research and Writing for Professional Purposes	3
Human Diversity Requirement Choose two of the following courses		6
ANTH243	The Caribbean	3
AAS341	The Black Experience in the Caribbean	3
PSY333	Black Psychology	3
SOC235	Ethnicity	3
SOC333	Social Stratification	3
Social Work Courses		42
SCWK101	Introduction to Social Work	3
SCWK203	Social Welfare Programs and Policies	3
SCWK293	Social Work Practicum	3
SCWK300	Social Work Generalist Practice I	3
SCWK350	Social Research I	3
SCWK360	Human Behavior in the Social Environment	3
SCWK370	Social Work Generalist Practice II	3
SCWK400	Social Work Generalist Practice III	3
SCWK410	Field Placement and Seminar I	6
SCWK470	Social Research II	3
SCWK480	Social Welfare Policy	3
SCWK492	Field Placement and Seminar II	6

* 19 credits of support courses can be used to fulfill General Education requirements.

Admission to the Social Work Program

Students must apply for admission to the Social Work Program. The Program admits applicants each semester. The deadline for applications is posted in the Social Sciences wing.

The criteria for admission are as follows:

1. Matriculation at York College with a major in Social Work
2. Completion of 61 or more credits
3. A cumulative GPA of 2.50 or better

4. A grade of "C" or better for all social work courses
5. A completed application form
6. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct
7. Successful completion of the following courses: Academic Computing 101; Anthropology 101; Biology 130; English 125; Health Education 312; Political Science 103; Psychology 102, 215, 216; Sociology 101; Social Work 101, 203, 293,300
8. A letter of acceptance into the Social Work Program from the Director of the Social Work Program.

Retention in the Social Work Program

The criteria for retention in the Social Work Program are:

1. A grade of "C" or better in each Social Work course. Students who earn an unacceptable grade in a Social Work course have one chance to repeat the course and earn an acceptable grade. Faculty permission is required to repeat Social Work 410 or 492.
2. Maintenance of a cumulative GPA of 2.50 or better. (In order to graduate, Social Work majors must have a GPA of 2.50 or better).
3. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct.

Failure to meet any one of the criteria listed above may be grounds for the student's dismissal by faculty.

Admission to Social Work Field Education

Field Education comprises SCWK 410 and SCWK 492. Students must apply for admission to Social Work Field Education. Admission to Social Work Field Education is a prerequisite for SCWK 410 and successful completion of SCWK 410 is a prerequisite for SCWK 492.

The Program admits applicants each semester. The deadline for applications (available in 3A11) is posted in the Social Sciences wing. Criteria for admission to Field Education are:

1. Admission to the Social Work Program
2. A cumulative York College GPA of 2.50 or better
3. A grade of "C" or better for all social work courses
4. Successful completion of 94 or more credits by the end of the semester in which the student applies
5. A completed application form
6. Successful completion of all courses required for admission to the Social Work Program and

successful completion of the following courses:
Social Work 350, 360, 370 Writing 303

Two courses from the following:

- AAS 341
- ANTH 243
- PSY 333
- SOC 235, 333

Sociology (Minor)

The Sociology minor is designed to meet the needs of students who are majoring in other areas but who want additional knowledge about human social behavior. It is also for students who will be working in private or public institutions where knowledge about social issues and different societies and cultures is desired.

SOC101	Introduction to Sociology	3
SOC201	Sociological Analysis	3
	Any 200 level Sociology course	3
	Any (2) 300 level Sociology courses	6

The Sociology minor is designed to meet the needs of students who are majoring in other areas but who want additional knowledge about human social behavior. It is also for students who will be working in private or public institutions where cross-cultural awareness and knowledge about social issues are desired.

Sociology (BA)

HEGIS Number 2208

Sociology is concerned with understanding human societies. As a discipline, sociology goes beyond common sense and popular wisdom to expose our biases and to develop a less simplistic view of the world we usually take for granted. As a major, sociology provides a foundation for careers in a variety of public and private areas, especially in the fields of community and service organization. The sociology program provides a balance between theoretical and applied interests of students and provides a number of opportunities for individualized independent work and advanced research courses. The curriculum is designed to meet not only the needs of students electing to major in the discipline, but also those of students in career oriented programs such as education, social work, business administration, and

the health professions. Students who wish to major or minor in Sociology should speak with a member of the Sociology faculty for advisement.

Major Discipline Requirements		30
SOC101	Introductory Sociology	3
SOC201	Sociological Analysis*	3
SOC220	Social Research I*	3
SOC312	Sociological Theory**	3
SOC321	Social Research II	3
	Five electives in Sociology are required. At least three electives must be at the 300 /400 level, and no more than two electives can be at the 200 level.	15

* Sociology 201 and 220 should be taken early in the major sequence.

** Sociology 312 should be taken late in the major sequence after completion of other major requirements.

Survey Research (Certificate Program)

The Survey Research certificate program is a subset of the major in Sociology leading to the award of the B.A. degree. Students may use these courses in satisfying their major requirements, where relevant, as well as apply them for the Certificate. This certificate program is intended for individuals who would like to explore careers in the survey and marketing research industry. Students may be non-degree, community and senior college undergraduates or graduates, or individuals currently working in survey research who seek a more formal educational credential. The Certificate will provide career and promotion opportunities. Students should see an adviser (Dr. William Divale, divale@york.cuny.edu, rm. 3A01) before beginning this program and registering for classes.

Required Courses		17
SOC220	Social Research I*	3
SOC321	Social Research II*	3
SOC226	Survey Research I (Direct Interview & Mail Surveys)	4
SOC227	Survey Research II (Telephone & Internet Surveys)	4
SOC290	Field Work and Research in Surveys	3

* Equivalent courses taken in other disciplines or at other institutions may be eligible for credit.

It is recommended that students take one or two of the following courses that may be of interest. These courses are **not required** for the certificate:

- Political Science 332 – Public Opinion and Political Behavior
- Psychology 358 – Psychology of Advertising & Marketing Communications.

Department of Teacher Education

Bai, Xin, Assistant Professor

Baron, Lindamichelle, Assistant Professor and Chair

Fusco, Dana, Professor

Gerena, Linda, Associate Professor

Keiler, Leslie, Associate Professor

The *vision* of the Teacher Education Unit builds upon the vision and mission of York College. The Unit's vision is "to develop a cadre of professional educators who, having been taught by models of good teaching, are prepared with an array of theories, tools and skills necessary to create rich learning environments in which urban children and youth can strive for and reach success."

The *mission* of the Unit is to prepare teachers who demonstrate caring and ethical professional behavior in order to build teaching and learning environments that draw on the strengths of students' diverse cultures, languages, exceptionalities, multiple intelligences, and learning styles. By providing our students with learning experiences that develop deep and broad content knowledge and life skills, our teacher candidates become effective practitioners who will:

- Empower Learners to Achieve at the Highest Levels
- Embody Pedagogy
- Exemplify Professionalism
- Enact Knowledge

Teacher Education Programs offered include:

- Childhood Education, Grades 1-6
- Childhood Education with a Bilingual Extension (Spanish/English), Grades 1-6
- Childhood Education Program with a Middle School Extension (BA)

- Teacher Education, in Biology, Chemistry, or Earth Science, Grades 7-12
- Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6
- Teacher Education in Spanish, Grades 7-12
- Teacher Education in Mathematics, Grades 7-12
- Health Education, Grades K-12
- Physical Education, Grades K-12.

IMPORTANT NOTE: York College program/course requirements and policies, and New York State Teacher Certification requirements change from time to time. It is very important to stay in touch with the Department of Teacher Education and your education advisor each semester. You must meet with a Teacher Education advisor in order to be given permission to register for EDUC courses. For additional information regarding any of the Teacher Education Program requirements, contact the Department of Teacher Education^[60]

Please refer to the appropriate academic departmental sections for Individual major course/education course requirements in K-12 or 7-12 Programs.

Requirements for Admission, Retention, Completion of all Teacher Education Programs, and Recommendations for New York State Initial Certification.

Admission to a Teacher Education Program:

Complete the *Application for Admission to the Teacher Education Program* including the planning grid and exam documentation for Language Arts and Science Test (LAST) & Assessment of Teaching Skills—Written (ATSW)

- Declare an approved major
- Earn a minimum overall 2.75 GPA in all courses taken at York College?• (Transfer Students complete a minimum of 12 credits at York College)
- Complete the Foundations courses EDUC 280, EDUC 283 and EDUC 284
- Earn a minimum overall 2.75 GPA in Foundations courses AND a minimum grade of C in each Foundations course (Minimum grade of B in each Foundations course taken elsewhere)

Transition Point 1: Admission to Curriculum & Methods Courses (EDUC 300 levels)

60. <http://york.cuny.edu/academics/departments/academic-departments/teacher-education>

in Room AC-1D12, (718) 262-2450. Email: teachered@york.cuny.edu

Economics Childhood Education (BA)

HEGIS Number 2204

Major Discipline Requirements		74.5 - 75.5
GEOL115	Energy, Resources and the Environment	3
GEOL120	Our Oceanic Environment	3
GEOL211	Structural Geology	4
GEOL217	Earth History With Paleontology	5
GEOL225	Mineralogy	5
GEOL323	Field Methods	1.5
GEOL282	Weather and Climate	3
GEOL411	Sedimentation	3
CHEM102	Chemical Principles II	5
PHYS151	University Physics I	5
MATH190	Computers in Modern Society	4
Choose one of the following		
ASTR201	The Solar System	4
ASTR202	Stars and the Milky Way	4
Choose one of the following groups		
Group A		
GEOL140	Our Earth	3
Group B		
GEOL110	Man and the Earth	3
GEOL207	Geologic Techniques	1
Teacher Education Requirements		26
Foundation Sequence		12
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning	3
EDUC284	Field Experience in Teaching and Learning	1
AC230	Teaching with Multimedia Technology*	2
Choose one of the following		
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC381	Curriculum and Methods in the Secondary School: Earth Science	3
Student Teaching and Student Teaching Seminar		8
EDUC446	Supervised Student Teaching, Earth Science, Grades 7-9.	4
EDUC447	Supervised Student Teaching, Earth Science, Grades 10-12.	4

All Geology - Earth Science/Education 7-12 majors must take Chemistry 101 and Mathematics 121 to fulfill the General Education Requirement.

*Students who do not evident technology competencies may need to take AC101 in order to graduate.

Major Discipline Requirements (30 Credits)		18
ECON102	Introduction to Microeconomics	3
ECON103	Introduction to Macroeconomics	3
ECON200	Intermediate Microeconomics	3
ECON210	Intermediate Macroeconomic	3
ECON220	Introduction to Economic Statistics	3
ECON311	Money and Banking	3
Economics Electives		12
	Elective in Econoncs	3
	Electives in Economics, Business, Accounting or Marketing*	9
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		14
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		6
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3
	Total	68

*Business 327 and Business 425 may not be used to satisfy these elective requirements.

English Childhood Education (BA)

HEGIS Number 1501

Major Discipline Requirements	74
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I. Required Foundation Courses		6
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
II. Additional Required Courses		9
ENG318	Shakespeare: The Major Works	3
One course from the following in British Literature		
ENG328*	Medieval & Renaissance Literature*	3
ENG333*	Restoration & 18th Century Literature*	3
ENG343*	The Romantic Period in England*	3
ENG344*	Victorian Literature*	3
ENG345*	20th Century British Literature*	3
One course from the following in American Literature:		
ENG350*	American Voices and Visions I*	3
ENG352*	American Voices and Visions II*	3
ENG353*	19th Century American Literature*	3
ENG355*	20th Century American Literature*	3
ENG356*	Studies in an American Literary Genre or Movement*	3
III. Emphasis Courses Choose at least 4 Emphasis Courses from one of the following Emphases		12
1. Literature Emphasis		
ENG311	Literary Studies	3
	Three other courses in literature at the 300 level or higher	9
2. Language Emphasis		
	Either the following four courses OR three of the following courses and one other course designated as a Language Emphasis course**	
ENG270	Introduction to English Grammar and Style	3
ENG370	Advanced English Grammar and Style	3
ENG371	History of the English Language	3
ENG375	English Sociolinguistics	3
3. Writing Emphasis		
ENG286	Introduction to Creative Writing	3
	Three additional courses in writing chosen in consultation with the major advisor	9
IV. Electives (6 credits)		
	Two additional courses in English at the 200 level or higher	6
V. Seminar (3 credits)***		
	One course from:	
ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in British Literature	3
ENG470	Seminar in the English Language	3
ENG480	Seminar in Writing/Journalism	3
OPTIONAL: B.A. with Honors in English (Usually taken during the Senior year)		6
Honors Seminars		
ENG492	Honors Research in English	3
ENG493	Honors Research in English	3
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2

EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching & Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
or		
SOC202	Major Ideas in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Language and Literacy Instruction in the Emergent and Primary Years (WI)	3
EDUC370	Content Area Literacy 2 - 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1-3	3
EDUC432	Supervised Student Teaching, Grades 4-6	3

* None of these courses may be counted toward both the Literature foundation and the Literature emphasis.

** Courses must be approved by the Department Chair

English Education/Middle School Extension (BA)

HEGIS Number 1501

EFFECTIVE FALL 2012		
Major Discipline Requirements		78
I. Required Foundation Courses		6
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
II. Additional Required Courses		9
ENG318	Shakespeare: The Major Works	3
One course from the following in British Literature		
ENG328*	Medieval & Renaissance Literature*	3
ENG333*	Restoration & 18th Century Literature*	3
ENG343*	The Romantic Period in England*	3
ENG344*	Victorian Literature*	3
ENG345*	20th Century British Literature*	3
One course from the following in American Literature:		
ENG350*	American Voices and Visions I*	3
ENG352*	American Voices and Visions II*	3
ENG353*	19th Century American Literature*	3

ENG355*	20th Century American Literature*	3
ENG356*	Studies in an American Literary Genre or Movement*	3
III. Emphasis Courses Choose at least 4 Emphasis Courses from one of the following Emphases		12
1. Literature Emphasis		
ENG311	Literary Studies	3
	Three other courses in literature at the 300 level or higher	9
2. Language Emphasis		
	Either the following four courses OR three of the following courses and one other course designated as a Language Emphasis course**	
ENG270	Introduction to English Grammar and Style	3
ENG370	Advanced English Grammar and Style	3
ENG371	History of the English Language	3
ENG375	English Sociolinguistics	3
3. Writing Emphasis		
ENG286	Introduction to Creative Writing	3
	Three additional courses in writing chosen in consultation with the major advisor	9
IV. Electives (6 credits)		
	Two additional courses in English at the 200 level or higher	6
V. Seminar (3 credits)***		
	One course from:	
ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in British Literature	3
ENG470	Seminar in the English Language	3
ENG480	Seminar in Writing/Journalism	3
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC271	Adolescent Development in Middle and High Schools	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC369	Early Language and Literacy	3

EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

* None of these courses may be counted toward both the Literature foundation and the Literature emphasis.

** Courses must be approved by the Department Chair

***Normally taken during Senior year. Seminar courses fulfill the upper division writing intensive requirement.

Note: All English majors must include Cultural Diversity 210 toward fulfillment of General Education requirements.

French Childhood Education (BA)

HEGIS Number 1102

French BA		
Select one course from the following:		3
FREN210	Literary Theory	3
FREN217	Advanced Composition and Grammar	3
FREN218	Stylistics	3
FREN235	French Linguistics	3
Required Courses:		6
FREN231	Survey of French Literature I	3
FREN232	Survey of French Literature II	3
Select one course from the following:		3
FREN334	Literature of the French West Indies	3
FREN335	Literature of French Speaking Africa	3
Eight additional French or Creole courses at the 200 level and above, including WLIT 205, 206 and 210. One course from the following can be used as a substitute: HUM 253, SOC 235. *Six additional credits for the Department Honors Program		24
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
Professional Educational Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2

EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	
	Total Credits	74

EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

French Education/Middle School Extension (BA)

HEGIS Number 1102

EFFECTIVE FALL 2012		
French Education/ Middle School Extension BA		80
Select one course from the following:		3
FREN210	Literary Theory	3
FREN217	Advanced Composition and Grammar	3
FREN218	Stylistics	3
FREN235	French Linguistics	3
Required Courses:		6
FREN231	Survey of French Literature I	3
FREN232	Survey of French Literature II	3
Select one course from the following:		3
FREN334	Literature of the French West Indies	3
FREN335	Literature of French Speaking Africa	3
Eight additional French or Creole courses at the 200 level and above, including WLIT 205, 206 and 210. One course from the following can be used as a substitute: HUM 253, SOC 235. *Six additional credits for the Department Honors Program		24
	Total Credits	36
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC271	Adolescent Development in Middle and High Schools	3
EDUC352	Instructional Strategies in Middle and High Schools	3

History Childhood Education (BA)

HEGIS Number 2205

Major Discipline Requirements*		36
Choose two of the following Courses		6
HIST201	Beginnings of the American People	3
HIST202	The Emergence of Urban America	3
HIST204	Contemporary America	3
HIST205	History of Women in the United States	3
HIST272	African-American History	3
HIST273	The American Worker	3
HIST274	The American Ethnic Experience	3
HIST311	The Colonial Period of American History, 1492-1760	3
HIST312	The Era of the American Revolution, 1760-1815	3
HIST313	The Civil War	3
HIST315	American Diplomatic History, 1789-1914	3
HIST316	American Diplomacy in the Twentieth Century	3
HIST326	American Economic History Since the Civil War	3
Choose two of the following Courses		6
HIST206	Women and the Family in World History	3
HIST210	Renaissance, Reformation and the Early Modern European State	3
HIST331	The Ancient Near East and Greece	3
HIST332	The Ancient World: Rome	3
HIST333	Nineteenth-Century Europe	3
HIST334	Twentieth-Century Europe	3
HIST335	Russia From the Middle Ages to 1855	3
HIST336	Russia From 1855 to the Present	3
HIST337	Modern England	3
HIST338	Modern France	3
HIST339	Modern Germany: 1648-1945	3
HIST340	The Holocaust: the Jewish Experience Under Nazism	3
HIST344	Contemporary Europe	3
Choose two of the following Courses		6
HIST257	East Asia to the Nineteenth Century	3
HIST258	East Asia From 1800 to the Present	3
HIST262	History of the Middle East	3
HIST275	African History Until 1800	3

HIST276	African History From 1800 Until the Present	3
HIST277	The Caribbean Since Columbus	3
HIST278	History of Modern India	3
HIST353	Modern China	3
HIST354	Modern Japan	3
HIST359	Contemporary China and Japan	3
HIST367	Colonial Latin America	3
HIST368	Latin America Since 1825	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization in West Africa	3
HIST376	West Africa Since Independence	3
An additional 18 credits at the 200 level or above at least 12 of which must be in History, and 6 of which may be in related disciplines, with the approval of the department		18
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

History Education/Middle School Extension (BA)

HEGIS Number 2205

Major Discipline Requirements*		80
Choose two of the following Courses		6
HIST201	Beginnings of the American People	3
HIST202	The Emergence of Urban America	3
HIST204	Contemporary America	3
HIST205	History of Women in the United States	3

HIST272	African-American History	3
HIST273	The American Worker	3
HIST274	The American Ethnic Experience	3
HIST311	The Colonial Period of American History, 1492-1760	3
HIST312	The Era of the American Revolution, 1760-1815	3
HIST313	The Civil War	3
HIST315	American Diplomatic History, 1789-1914	3
HIST316	American Diplomacy in the Twentieth Century	3
HIST326	American Economic History Since the Civil War	3
Choose two of the following Courses		6
HIST206	Women and the Family in World History	3
HIST210	Renaissance, Reformation and the Early Modern European State	3
HIST331	The Ancient Near East and Greece	3
HIST332	The Ancient World: Rome	3
HIST333	Nineteenth-Century Europe	3
HIST334	Twentieth-Century Europe	3
HIST335	Russia From the Middle Ages to 1855	3
HIST336	Russia From 1855 to the Present	3
HIST337	Modern England	3
HIST338	Modern France	3
HIST339	Modern Germany: 1648-1945	3
HIST340	The Holocaust: the Jewish Experience Under Nazism	3
HIST344	Contemporary Europe	3
Choose two of the following Courses		6
HIST257	East Asia to the Nineteenth Century	3
HIST258	East Asia From 1800 to the Present	3
HIST262	History of the Middle East	3
HIST275	African History Until 1800	3
HIST276	African History From 1800 Until the Present	3
HIST277	The Caribbean Since Columbus	3
HIST278	History of Modern India	3
HIST353	Modern China	3
HIST354	Modern Japan	3
HIST359	Contemporary China and Japan	3
HIST367	Colonial Latin America	3
HIST368	Latin America Since 1825	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization in West Africa	3
HIST376	West Africa Since Independence	3
An additional 18 credits at the 200 level or above at least 12 of which must be in History, and 6 of which may be in related disciplines, with the approval of the department		18
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC281	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3

OR		
SOC202	Major Ideas and Issues in Education	3
Professional Educational Sequence		
EDUC271	Adolescent Development in Middle and High Schools	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

B.A. with Honors in History

Juniors and Seniors who meet the following requirements, a 3.6 average, a minimum of 24 credits in elective History courses, and either a 400-level History seminar or History 490, Senior Research in History, should apply for graduation with a B.A. with Honors in History.

Interdisciplinary Studies Childhood Education (BA)

HEGIS Number 4901

Major Requirements Courses taken to fulfill General Education requirements do not count toward meeting Interdisciplinary Studies major requirements. Courses can count, however, to meet both Interdisciplinary Studies and Teacher Education requirements.	74-76
History, Behavioral Sciences, Social Sciences**	15
200-level or above; at least 2 300-level or above	
Choose one of the following courses	
United States (U.S.) History	
European History	
Choose one of the following courses	
African History	
Asian History	
Caribbean History	
Latin American History	
Choose three courses in Behavioral / Social Sciences	
African American Studies, Anthropology, Economics, Political Science, Psychology, Sociology	

Literature, Art, Music, Theatre*** 200-level or above; at least one 300-level or above		9
	British or American Literature (not English 200)	
	Literature that is not British or American	
Choose one of the following courses		
	Art	
	Music	
	Theatre	
Natural Science, Mathematics 2 courses (at 100-level 6-8 or above)		
	Natural Science (Astronomy, Biology, Chemistry, Geology, Physics)	
	Mathematics (not Mathematics 271)	
Interdisciplinary 2 courses (200-level or above)		6
IS400	IS Senior Seminar	
Choose one of the following courses		
	Philosophy (200- level or above, but not Phil 202)	
ENG364	The Tragic Vision	3
HUM230	Fairness and Equity	3
HUM235	The Digital Revolution	3
HUM320	Interdisciplinary Honors Seminar	3
POL267	Classical Political Theory I: Plato to Machiavelli	3
POL268	Political Theory II: Machiavelli to Marx	3
POL269	American Political Thought	3
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		18
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		14
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		6
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

**TE students: 1 U.S. & 1 Caribbean or Latin American History.

***TE students: 1 U.S. & 1 Caribbean or Latin American Literature.

Mathematics Childhood Education (BA)

HEGIS Number 1701

Required Prerequisites (5 Credits)	
MATH119 Computer Algebra System	1
MATH121 Analytic Geometry and Calculus I	4
or	
MATH184 Analytic Geometry and Calculus I	4
Mathematics 121 and 184 satisfy the General Education Requirement.	
Major Discipline Requirements 33 Credits	
MATH122 Analytic Geometry and Calculus II	4
MATH221 Analytic Geometry and Calculus III	4
MATH333 Linear Algebra	4
MATH336 Modern Algebra	4
One course from:	
MATH481 Seminar in Contemporary Mathematics	1
MATH482 Seminar in Contemporary Mathematics	1
MATH483 Seminar in Contemporary Mathematics	1
MATH484 Seminar in Contemporary Mathematics	1
MATH485 Seminar in Contemporary Mathematics	1
MATH486 Seminar in Contemporary Mathematics	1
MATH487 Seminar in Contemporary Mathematics	1
MATH488 Seminar in Contemporary Mathematics	1
MATH489 Seminar in Contemporary Mathematics	1
An additional 4 credits of mathematics or CS electives**	4
**Mathematics electives are Math or CS courses numbered 200 and above. The following courses cannot be credited toward fulfillment of the mathematics major requirements: Math 101, 102, 111, 115, 120, 141, 150, 190, 271, 272, 302, 303; CS 193, 194	
Mathematics Electives (12 Credits) All mathematics majors must complete at least three additional advanced mathematics or CS courses, to make a total of at least 36 credits, in one of the required areas of specialty:	
A. Actuarial Mathematics & Operations Research Area:	
MATH210 Probability and Statistics I	4
MATH211 Probability and Statistics II	4
MATH313 Operations Research	3
One course from:	
MATH481 Seminar in Contemporary Mathematics	1
MATH482 Seminar in Contemporary Mathematics	1

MATH483 Seminar in Contemporary Mathematics	1
MATH484 Seminar in Contemporary Mathematics	1
MATH485 Seminar in Contemporary Mathematics	1
MATH486 Seminar in Contemporary Mathematics	1
MATH487 Seminar in Contemporary Mathematics	1
MATH488 Seminar in Contemporary Mathematics	1
MATH489 Seminar in Contemporary Mathematics	1
Also recommended are: CS 172 and Mathematics 243, 321 and 410. The Mathematics Department also suggests, but not required, that Actuarial Mathematics students complete at least two examinations provided by the Society of Actuaries before graduation.	
B. Applied Mathematics Area:	
MATH210 Probability and Statistics I	4
MATH211 Probability and Statistics II	4
MATH223 Differential Equations and Dynamical Systems	3
One course from:	
MATH481 Seminar in Contemporary Mathematics	1
MATH482 Seminar in Contemporary Mathematics	1
MATH483 Seminar in Contemporary Mathematics	1
MATH484 Seminar in Contemporary Mathematics	1
MATH485 Seminar in Contemporary Mathematics	1
MATH486 Seminar in Contemporary Mathematics	1
MATH487 Seminar in Contemporary Mathematics	1
MATH488 Seminar in Contemporary Mathematics	1
MATH489 Seminar in Contemporary Mathematics	1
C. Computing Area:	
MATH225 Discrete Mathematical Structures	4
CS291 Computer Science II	4
CS341 Algorithms & Data Structures II	4
D. General Area:	
MATH223 Differential Equations and Dynamical Systems	3
MATH225 Discrete Mathematical Structures	4
MATH311 Mathematics Methods for Physical Science	4
or	
MATH423 Advanced Calculus I	4
One course from:	
MATH481 Seminar in Contemporary Mathematics	1
MATH482 Seminar in Contemporary Mathematics	1
MATH483 Seminar in Contemporary Mathematics	1
MATH484 Seminar in Contemporary Mathematics	1
MATH485 Seminar in Contemporary Mathematics	1
MATH486 Seminar in Contemporary Mathematics	1
MATH487 Seminar in Contemporary Mathematics	1
MATH488 Seminar in Contemporary Mathematics	1
MATH489 Seminar in Contemporary Mathematics	1
E. Mathematics Education Area:	
MATH210 Probability and Statistics I	4
MATH225 Discrete Mathematical Structures	4
MATH479 History and Philosophy of Mathematics	1
choose one of the following	
MATH243 Combinatorial and Discrete Geometry	3
MATH244 Geometric Structures	3

EDUCATION COURSE REQUIREMENTS 38 Credits		38
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3
	total	71
		Credits

Mathematics Education 7-12 (BS)

HEGIS Number 1701

Students interested in a teaching career and New York State certification should file an application form in the Department of Teacher Education. The Program prepares candidates to teach Mathematics in grades 7-12. Candidates who successfully completed the requirements for Teacher Education in Mathematics, Grades 7-12 are eligible to apply for New York State initial certification in Mathematics, Grades 7-12.

Acceptance to the program is contingent upon:

- enrollment in the Mathematics major;
- a minimum GPA of 2.75;
- the passing of all CUNY assessment examinations;
- completion of 42-46 credits including the following: Cultural Diversity 210, History 201 or 202 or 204 (American History), Political Science 103 or Economics 102 or 103, and at least one laboratory science.

MATH119	Computer Algebra System	1
MATH121	Analytical Geometry & Calculus I	4
	OR	
MATH184	Analytical Geometry & Calculus I	4
MATH122	Analytical Geometry & Calculus II	4
MATH221	Analytical Geometry & Calculus III	4
MATH210	Probability and Statistics I	4
MATH225	Discrete Mathematical Structures	4
MATH243	Combinatorial and Discrete Geometry	3
	OR	
MATH244	Geometric Structures	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4
MATH479	History and Philosophy of Mathematics	1
MATH481-489	One seminar in Contemporary Mathematics	1
	4 Credits in Math or Computer Science 200 level or above	4
	5 Credits Science Course acceptable for respective major	5
Education Course Requirements		26
Foundations Sequence		12
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning	3
EDUC284	Field Experience in Teaching and Learning	1
AC230	Teaching with Multimedia Technology*	2
Choose one of the following		3
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC373	Curriculum and Methods in the Secondary School: Mathematics	3
Student Teaching and Student Teaching Seminar		8
EDUC440	Supervised Student Teaching, Mathematics, Grades 7-9	4
EDUC441	Supervised Student Teaching, Mathematics, Grades 10-12	4

Additional Mathematics Requirements

To fulfill their major requirements, all mathematics majors must complete five credits of natural science courses that are acceptable for the respective science majors. These courses also satisfy the General Education Requirement for Mathematics majors. Students interested in pursuing graduate study in Mathematics are also advised to take Advanced Calculus I (Math 423), Advanced Calculus II (Math 424), Complex Analysis (Math 425), and Topology (Math 426).

* Students who do not evident technology competencies may need to take AC101 in order to graduate.

Mathematics Education/Middle School Extension (BA)

HEGIS Number 1701

Required Prerequisites (5 Credits)		
MATH119	Computer Algebra System	1
MATH121	Analytic Geometry and Calculus I	4
or		
MATH184	Analytic Geometry and Calculus I	4
Mathematics 121 and 184 satisfy the General Education Requirement.		
Major Discipline Requirements		77
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
An additional 4 credits of mathematics or CS electives** 4		
**Mathematics electives are Math or CS courses numbered 200 and above. The following courses cannot be credited toward fulfillment of the mathematics major requirements: Math 101, 102, 111, 115, 120, 141, 150, 190, 271, 272, 302, 303; CS 193, 194		
Mathematics Electives (12 Credits) All mathematics majors must complete at least three additional advanced mathematics or CS courses, to make a total of at least 36 credits, in one of the required areas of specialty:		12
A. Actuarial Mathematics & Operations Research Area:		
MATH210	Probability and Statistics I	4
MATH211	Probability and Statistics II	4
MATH313	Operations Research	3
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1

MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
Also recommended are: CS 172 and Mathematics 243, 321 and 410. The Mathematics Department also suggests, but not required, that Actuarial Mathematics students complete at least two examinations provided by the Society of Actuaries before graduation.		
B. Applied Mathematics Area:		
MATH210	Probability and Statistics I	4
MATH211	Probability and Statistics II	4
MATH223	Differential Equations and Dynamical Systems	3
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
C. Computing Area:		
MATH225	Discrete Mathematical Structures	4
CS291	Computer Science II	4
CS341	Algorithms & Data Structures II	4
D. General Area:		
MATH223	Differential Equations and Dynamical Systems	3
MATH225	Discrete Mathematical Structures	4
MATH311	Mathematics Methods for Physical Science	4
or		
MATH423	Advanced Calculus I	4
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
E. Mathematics Education Area:		
MATH210	Probability and Statistics I	4
MATH225	Discrete Mathematical Structures	4
MATH479	History and Philosophy of Mathematics	1
Choose one of the following		
MATH243	Combinatorial and Discrete Geometry	3
MATH244	Geometric Structures	3
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3

EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC271	Adolescent Development in Middle and High Schools	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

*Note: Mathematics BA requires 90 Liberal Arts Credits and the Mathematics BS requires 60 Liberal Arts Credit to graduate.

Music Childhood Education (BA)

HEGIS Number 1005

EFFECTIVE FALL 2012		
Major Discipline Requirements		78
Required Music Courses		23
MUS210	Ear Training I	2
MUS223	Harmony	3
MUS225	Computer Music	3
MUS270*	Introduction to Ethnomusicology (WI)	3
MUS291	Keyboard Harmony	1
MUS310	Ear Training II	2
MUS323	Form & Analysis	3
MUS350	History of Western Music I (WI)	3
MUS351	History of Western Music II	3
REQUIRED ELECTIVES: CHOOSE ONE FROM EACH OF THE FOLLOWING GROUPS		17
Ensemble I		2
MUS131	Gospel Choir I	2
MUS139	Jazz Ensemble I	2
MUS146	Jazz Improvisation I	2
Ensemble II		
MUS231	Gospel Choir II	2
MUS239	Jazz Ensemble II	2

MUS246	Jazz Improvisation II	2
Popular Music History		
MUS250	African-American Music	3
MUS253	History of Jazz	3
Ensemble III		
MUS331	Gospel Choir III	2
MUS339	Jazz Ensemble III	2
Ensemble IV		
MUS431	Gospel Choir IV	2
MUS439	Jazz Ensemble IV	2
Upper Level Electives		
MUS420	Instrumentation	3
MUS422	Conducting	3
MUS425	Composition	3
MUS461	Jazz Style & Techniques	3
Senior Year Requirement		
MUS490	Independent Study	3
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3
	Total	78
		Credits

* MUS 270 is cross listed with ANTH 270. Either course will be accepted.

NOTE: Majors in Music must fulfill their Performance and Fine Arts General Education Requirement in a discipline other than music.

Philosophy Childhood Education (BA)

HEGIS Number 1509

Major Discipline Requirements		68
PHIL211	Ancient Philosophy	3
PHIL213	Modern Philosophy	3
8 courses 200-level or above Electives in Philosophy and/or other disciplines' with predominantly Philosophical materials, such as English 364, Speech 203, 231, and Political Science 267-269 may be used to meet some of these 8 requirements.		24
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		18
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		14
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		6
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

Political Science Childhood Education (BA)

HEGIS Number 2207

Major Discipline Requirements (31 Credits)		69
Required Courses		6
POL214	Radical and Ethnic Politics	3
POL285	Urban Government in the United States	3
One course chosen from the following		3
POL202	Comparative Politics*	3
POL241	Basic Factors in International Politics**	3
One course chosen from the following:		3
POL267	Classical Political Theory I: Plato to Machiavelli	3
POL268	Political Theory II: Machiavelli to Marx	3

POL269	American Political Thought	3
Area Studies		
One course chosen from the following:		3
POL226	The U.S. Supreme Court	3
POL327	Congress and the Presidency	3
Once course chosen from the following:		3
POL250	Latin American Politics	3
POL256	African Politics	3
POL257	Asian Politics	3
POL258	Middle East Politics	3
Internship		
One course chosen from the following		4
POL393	Seminar-Internship in New York City Government and Community Development	4
POL394	Seminar-Internship in New York City Government and Community Development	4
Elective Political Science courses, 9 credits		9
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		18
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

Note: Electives must include a 300 or 400 level course, and should be chosen in consultation with a Political Science advisor.

* Political Science majors must choose POL 103 to satisfy the General Education requirement.

Psychology Childhood Education (BA)

HEGIS Number 2001

Major Course Requirements Complete Groups I, II, and III		71-72
Group I: Required Psychology Courses (15 credits)		
PSY215	Human Development I – Infancy/Childhood	3
PSY326	Statistical Methods in Psychology	3
PSY330	Foundations of Research in Psychology	3
PSY334	Personality	3
PSY401	History of Psychology	3
Group II: Choose one course in Area A, B, and C (9 Credits)		
Only ONE course required in EACH area		
Area A: Choose one of the following:		
PSY319	Human Cognition Laboratory	3
PSY321	Psychology of Learning Laboratory	3
Area B: Choose one of the following		
PSY332	Social Psychology	3
PSY338	Abnormal Psychology	3
Area C: Choose one of the following		
PSY313	Sensation and Perception Laboratory	3
PSY362	Physiological Psychology	3
Group III: Three additional Psychology Courses		9 - 10
EDUCATION COURSE REQUIREMENTS		18
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

Note: Group III Courses: The courses in Group II may be used as electives. If, for example, you take

Psychology 319 to fulfill Area A, you can use Psychology 321 as an elective in Psychology. Be careful to check the prerequisites for each elective course you choose.

Sociology Childhood Education (BA)

HEGIS Number 2208

Major Discipline Requirements		68
SOC101	Introductory Sociology	3
SOC201	Sociological Analysis*	3
SOC220	Social Research I*	3
SOC312	Sociological Theory**	3
SOC321	Social Research II	3
Five electives in Sociology are required. At least three electives must be at the 300 /400 level, and no more than two electives can be at the 200 level.		15
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

* Sociology 201 and 220 should be taken early in the major sequence.

** Sociology 312 should be taken late in the major sequence after completion of other major requirements.

Spanish Childhood Education (BA)

HEGIS Number 1105

Major Discipline Requirements	74
Foundation Courses	24
SPAN200 Introduction to Literary Theory and Analysis	3
SPAN208 Advanced Grammar	3
SPAN209 Composition and Style	3
SPAN210 Spanish Linguistics	3
SPAN351 Cervantes	3
SPAN413 Hispanic Civilization	3
Choose one of the following	
SPAN201 Hispanic-American Literature from its Origin Through Modernismo	3
SPAN202 Hispanic-American Literature after Modernismo	3
Choose one of the following	
SPAN221 Spanish Literature to 1700	3
SPAN222 Spanish Literature 1700-Present	3
Elective Courses	12
Select any 12 credits in the SPAN 200 Level or above. 6 Credits MUST be at the 300 or 400 level. *	
EDUCATION COURSE REQUIREMENTS	
Foundations Sequence	
AC230 Teaching with Multimedia Technology	2
EDUC268 Bilingual and ELL Education	2
EDUC280 Child and Adolescent Development for Teachers	3
EDUC283 Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284 Field Experience in Teaching and Learning	1
MATH271 Mathematics for Elementary School Teachers	4
PHIL202 Major Ideas and Issues in Education	3
OR	
SOC202 Major Ideas and Issues in Education	3
Professional Education Sequence	
EDUC317 Curriculum and Methods in Elementary Education: Science	2
EDUC318 Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323 Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333 Constructing Social Studies Relationships through Expressive Arts	3
EDUC369 Early Language and Literacy	3
EDUC370 Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar	
EDUC341 Supervised Student Teaching, Grades 1 – 3	3
EDUC342 Supervised Student Teaching, Grades 4 - 6	3

Spanish/ Education 7-12 (BA)

HEGIS Number 1105.01

The Program prepares candidates to teach Spanish in Grades 7-12. Candidates who have successfully completed the Adolescence Education in Spanish

Program, Grades 7 through 12, are eligible to apply for New York State initial certification in Spanish, Grades 7-12.

Spanish Requirements	36
SPAN200 Introduction to Literary Theory and Analysis	3
SPAN208 Advanced Grammar	3
SPAN209 Composition and Style	3
SPAN210 Span Linguistics	3
SPAN351 Cervantes	3
SPAN413 Hispanic Civilization	3
Choose one of the following	
SPAN201 Hispanic-American Literature from its Origin Through Modernismo	3
SPAN202 Hispanic-American Literature After Modernismo	3
Choose one of the following	
SPAN221 Spanish Literature to 1700	3
SPAN222 Spanish Literature Literature 1700-Present	3
**Select any 4 Spanish Electives. at least 6 credits MUST be at the 300 or 400 level.	12
Education Course Requirements	26
Foundation Sequence	
EDUC280 Child and Adolescent Development for Teachers	3
EDUC283 Educational Psychology: Effective Teaching and Learning	3
EDUC284 Field Experience in Teaching and Learning	1
Choose One	
PHIL202 Major Ideas and Issues in Education	3
SOC202 Major Ideas and Issues in Education	3
Professional Education Sequence	
EDUC340 Literacy Instruction inside Middle and Secondary Schools	3
EDUC371 Curriculum and Methods in the Secondary School: Spanish	3
AC230 Teaching with Multimedia Technology*	2
Student Teaching and Student Teaching Seminar	
EDUC458 Supervised Teaching, Spanish, Grades 7-9	4
EDUC459 Supervised Teaching, Spanish, Grades 10-12	4

* Students who do not evidence technology competencies may need to take AC101 in order to graduate

** NOTE: REQUIREMENTS WERE REVISED IN 2011/2012 ADDENDUM

Speech Communication/Theatre Arts Childhood Education (BA)

HEGIS Number 1506

Speech Communication and Theatre Arts majors who take Speech Communication 101 as part of the College General Education requirement may not apply those credits to the major.

EFFECTIVE FALL 2012		
Major Discipline Requirements		71
Required Speech Communication and Theatre Arts Courses		12
SPCH182	Voice and Diction	3
TA210	History of Theatre	3
TA211	Basic Acting	3
SPCH303	Ethics & the Freedom of Speech	3
Speech Communication/Theatre Arts Choose one of the following		
SPCH490	Independent Research	3
TA490	Independent Research	3
III. Speech Communication/Theatre Arts Electives		18
Students must concentrate in either Speech Communication or in Theatre Arts and complete at least twelve of their eighteen elective credits in the Concentration that they have declared. (A total of 12 credits of Speech Comm/TA coursework must be at the 300-level or higher.)		
EDUCATION COURSE REQUIREMENTS		
Foundation Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 – 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 – 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3
	Total	71

NOTE: Although Speech Communication students may take as much Theatre Arts practica as they please, no more than 6 credits of Theatre Arts practica may be applied toward the fulfillment of the Speech Communication Concentration; however, Theatre

Arts students may apply 9 credits of Theatre Arts Practica toward the fulfillment of the Theatre Arts Concentration. Theatre Arts practica courses currently include TA215-19.

*All Speech Comm/TA majors must take SPCH 101 as a Prereq for completion of the Major.

Majors in Speech Communication/Theatre Arts must fulfill their General Education Requirements in a discipline other than their major.

Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6 (BA)

HEGIS Number 1105

The Program prepares candidates to teach children in Childhood and Bilingual settings in grades 1-6. Candidates who have successfully completed the Childhood Education with a Bilingual Extension (Spanish/English) Program, Grades 1 through 6, are eligible to apply for New York State initial certification in Childhood, Grades 1-6, with a Bilingual Teacher Extension.

Education Course Requirements		40-41
Foundations Sequence		16-17
EDUC268	Teaching the Linguistically Diverse Student in Bilingual and Mainstream Classes	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning	3
EDUC` 284	Field Experience in Teaching and Learning	1
AC230	Teaching with Multimedia Technology**	2
MATH271	Mathematics for Elementary School Teachers	4
Choose one of the following		
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		19
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2

EDUC333	Constructing Social Studies Relationships through the Expressive Arts	2
EDUC351	Teaching Reading and Spanish Language Arts in Bilingual Contexts	3
EDUC369	Language and Literacy Instruction in the Emergent and Primary Years (WI)	3
EDUC370	Content Area Literacy Instruction for Mainstream English Only (EO) and English Language Learners (ELLs) Grades 2-6	3
Student Teaching and Student Teaching Seminar		6
EDUC431	Supervised Student Teaching, Grades 1-3*	3
EDUC432	Supervised Student Teaching, Grades 4-6*	3

*One of the student teaching placements must be in a bilingual setting.

**Students who do not evidence technology competencies may need to take AC 101 in order to graduate.

Listing of Courses

Listing of Courses by Department

Academic Computing

AC101 (Not Liberal Arts) Computer Literacy 1.5 hrs. 1 crs. Hands-on introduction to the components and operation of computers. The students understanding of computer principles, procedures, and terminology will be developed through lab projects using software appropriate to composition and report preparation in the arts and sciences. 30 minutes lecture, 1 hour laboratory. This course may be offered as a Hybrid Course

AC102 (Not Liberal Arts) Introduction to Microcomputers II 3 hrs. 1 crs. Hands-on introduction to the components and operation of the Macintosh microcomputer system in the environment of the current operating system. Students will acquire knowledge and skills through extensive lab projects using software designed to prepare them for the study of computer graphics and desktop publishing. Preq: AC 101. 1 hour lecture, 2 hours laboratory for seven weeks plus two additional laboratory hours TBA.

AC201 (Not Liberal Arts) Computer Applications 3 hrs. 3 crs. Design and implementation of computerized information systems in business, human services, health, education and public administration, to include an introduction to spreadsheet, graphics and database management software. Preq: AC 101, and Sophomore status. Not open to students with credit in BUS 201. Sophomores and above only. Students will be required to complete weekly assignments using the microcomputer.

AC230 (Not Liberal Arts) Teaching with Multimedia Technology 4 hrs. 2 crs. Students learn the foundations for using multimedia technology in the classroom, become proficient with multimedia technology, study issues of equity related to educational technology, and understanding NYS K-12 learning standards for technology. Students design curriculum integrating the Internet and student-produced multimedia projects. Preq: AC 101. Not open to students with credit in AC 250. This course may be offered as a Hybrid Course.

Accounting

ACC101 (Not Liberal Arts) Principles of Accounting I 4 hrs. 4 crs. Fundamental accounting theory and practice; entry and posting of typical transactions: trial balances and work sheets; payroll accounting; inventory; fixed assets, depreciation; accounting for notes; income statements; and balance sheets. (Formerly ECON 182)

ACC102 (Not Liberal Arts) Principles of Accounting II 4 hrs. 4 crs. Current liabilities; partnerships; corporations; analyzing financial statements; cash flow statements; recording bond transactions; stocks and bonds as investments; accounting

principles; accounting for notes and accounts receivable, accounting for payroll. Preq: ACC 101. (Formerly ECON 183)

ACC103 (Not Liberal Arts) Principles of Managerial Accounting 4 hrs. 4 crs. An introductory course in managerial accounting for non-accounting majors. Emphasis is placed on the use and analysis of accounting data for management decision-making. Topics include: capitalization of a corporation; current liabilities including payroll; financial reporting and analysis; financial performance and analysis; the new business environment; cost concepts and behavior analysis; budgeting; performance management; and decision-making analysis. Preq: ACC 101, NOT OPEN TO ACCOUNTING MAJORS

ACC201 (Not Liberal Arts) Intermediate Accounting I 4 hrs. 3 crs. Analysis of current accounting concepts and standards underlying reporting income, cash flow, and financial position; includes cash; receivables; inventories; revenue recognition; pronouncements of official bodies. Preq: ACC 102 (Formerly ECON 280)

ACC202 (Not Liberal Arts) Intermediate Accounting II 4 hrs. 3 crs. In depth analysis of the balance sheet; topics include plant assets; depreciation; intangibles; current liabilities and contingencies; stockholders' equity; partnership formation and dissolution, dilutive securities and EPS Preq: ACC 201.

ACC203 (Not Liberal Arts) Intermediate Accounting III 4 hrs. 3 crs. Analysis of present value techniques and related accounting applications including long term liabilities, pensions, leases, and long term investments; complex cash flow statements; accounting for changes and error correction; and accounting for income taxes. Preq: ACC 201 Coreq: ACC 22

ACC210 (Not Liberal Arts) Computer Applications in Accounting 4 hrs. 3 crs. Development of criteria for evaluation and selection of accounting software packages, supporting hardware, and operating systems. Design and implementation of computerized accounting information systems utilizing accounting and electronic spreadsheet software programs. Preq: ACC 101 hours lecture, 2 hours laboratory.

ACC238 (Not Liberal Arts) Fraud Examination 3 hrs. 3 crs. Fraud examination will cover the principles and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement sc Preq: ACC 102 Not open to students with credit in ACC 338.

ACC240 (Not Liberal Arts) International Accounting 3 hrs. 3 crs. This course examines the international dimensions of financial accounting and reporting, and trends in global accounting convergence. Topics include: causes and examples of international accounting differences; international harmonization of financial reporting; international financial statements analysis; and accounting rules and practices in Europe and Asia. Preq: ACC 201.

ACC290 (Not Liberal Arts) Accounting Internship 45 hrs. 1 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied

study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required

ACC291 (Not Liberal Arts) Accounting Internship 90 hrs. 2 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required

ACC292 (Not Liberal Arts) Accounting Internship 135 hrs. 3 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required

ACC293 (Not Liberal Arts) Accounting Internship 135 hrs. 3 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 292; Department permission is required

ACC301 (Not Liberal Arts) Advanced Financial Accounting 4 hrs. 4 crs. Advanced financial accounting theory and practice: combinations, investor accounting, consolidations, governmental and not-for-profit accounting. Emphasis on professional pronouncements and CPA examination problems Preq: ACC 202. (Formerly ECON 288)

ACC335 (Not Liberal Arts) Auditing I 3 hrs. 3 crs. Analysis of auditing concepts, standards, procedures, ethics, responsibility, independence of public accountants, audit program, scope, evidence, and statistical sampling. Preq: ACC 202. Not open to students with credit in ACC 305 or ECON 287. A term report is required.

ACC336 (Not Liberal Arts) Auditing II 2 hrs. 2 crs. Application of auditing concepts; standards; procedures to simulate audit cases. Students will apply the foundation of auditing learned in Accounting 335 to audit cases, with emphasis on the development of auditing judgment, quality, and appreciation of internal control, auditing techniques, practice and report writing. Preq: ACC 335.

ACC345 (Not Liberal Arts) Cost Accounting 3 hrs. 3 crs. Analysis of cost accounting methods and procedures, including job order costing, flexible budgeting, standard costing, cost allocation, direct costing, joint and by products, and cost-volume-profit relationships, and Activity based Cost. Emphasis on accounting for cost as a managerial tool for analyzing and controlling costs, decision making and planning. Preq: ACC 201

ACC346 (Not Liberal Arts) Cost Accounting II 2 hrs. 2 crs. Continued application of cost accounting methods and procedures including flexible budgets, standard costs, variances, direct costing, absorption costing, joint and by-product costs. Continued emphasis on accounting for cost as a managerial tool. Preq: ACC 345.

ACC350 (Not Liberal Arts) Income Taxation 3 hrs. 3 crs. Concepts and laws of taxable income, exemptions and deductions; emphasis on Federal and State income taxes including practical exercises. Preq: ACC 201. (Formerly ECON 285) Students with credit in ACC 250 should substitute ACC 351 for ACC 350.

ACC351 (Not Liberal Arts) Advanced Income Taxation 4 hrs. 4 crs. Advanced Income Taxation including discussions of advanced corporate, foreign, estate and gift taxation, and other specialized areas. Preq: ACC 350. Requires preparing a research paper.

ACC355 (Not Liberal Arts) Taxation of Trusts and Estates 3 hrs. 3 crs. This course explores the taxation of trust and estate entities using the life cycle approach. Topics include: Outline of the estate law, deductions and credits, tax calculation, valuation, types of trusts, and income concepts. Preq: ACC 350 or equivalent. 3 hours lecture.

ACC381 (Not Liberal Arts) Advanced Accounting Problems 3 hrs. 3 crs. Advanced accounting problems: corporate reorganization, foreign operations, governmental and non-profit accounting, interim and segmental reporting, S.E.C. problems. Emphasis on professional pronouncements and CPA examination problems. Preq: ACC 301.

Anthropology

ANTH101 (Liberal Arts) Introduction to Cultural Anthropology 3 hrs. 3 crs. Basic concepts of cultural anthropology, with illustrative material drawn from ethnographic studies of band, tribal, and peasant societies. Course sections are offered as both in class courses and as asynchronous online courses. Online sections of this course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software.

ANTH103 (Liberal Arts) Introduction to Physical Anthropology and Archaeology 4 hrs. 3 crs. Basic concepts and theories of physical anthropology and archaeology. Survey of the evidence for human physical and cultural evolution in prehistoric times. 2 hours lecture, 2 hours laboratory. Field trips may be required.

ANTH152 (Liberal Arts) Medical Anthropology 3 hrs. 3 crs. The relationship of culture to nutrition and disease and an analysis of primitive and folk medical practices. Not open to students with credit in ANTH 252 or ANTH 352.

ANTH201 (Liberal Arts) Ethnopsychiatry 3 hrs. 3 crs. The occurrence and treatment of mental illness, anxiety, and stress in pre-industrial and peasant societies, with special emphasis on the role of shamans and curanderos as psychiatric healers. Preq: ANTH 101 or ANTH 152, or PSY 102, or PSY 110. Not offered on a regular basis. Availability to be determined by the department.

ANTH205 (Liberal Arts) Anthropology of Sex 3 hrs. 3 crs. The basic assumption behind this course is that cultures are symbolic systems. The course will look at many different societies, focusing on the institution of sexuality and its constituent symbols. Sexuality will be discussed in its relation to other institutions emphasizing correlations between core symbols of the institution of sexual beliefs and practices and core symbols in other institutions. This course will employ a multi-media approach. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH211 (Liberal Arts) Anthropology and City Life 3 hrs. 3 crs. Introduction to the variety of urban life styles. Pre-industrial, Third World, and Western cities in comparison. The anthropological approach to sub-cultures in an urban setting. Preq: ANTH 101. Some sections of this course are offered as an asynchronous online course using the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.

ANTH220 (Liberal Arts) Social Research I 4 hrs. 3 crs. Introduction to the logic of inquiry; the construction and interpretation of cultural and social indicators and demographic measures; the organization and analysis of quantitative data in anthropological and social research, including the use of micro-computers for graphic and statistical analysis and presentation. Preq: ANTH 101. Not open to students with credit in SOC 220 or SCWK 350. 2 hours lecture, 2 hours laboratory. Course is cross listed with SOC 220 and SCWK 350.

ANTH222 (Liberal Arts) The Archaeology of Early Man 3 hrs. 3 crs. Biological, cultural and behavioral evolution from human origins to the beginnings of food production in the New and Old World. Preq: ANTH 103 or permission of instructor. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

ANTH223 (Liberal Arts) The Rise of Civilization 3 hrs. 3 crs. Human prehistory from the origins of settled village life to early civilizations. The emergence of regional patterns, urbanization, and social stratification in major New and Old World centers. Preq: ANTH 103 or permission of instructor. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

ANTH234 (Liberal Arts) Applied Anthropology 3 hrs. 3 crs. The application of anthropological knowledge and techniques in the introduction of Western medical, agricultural and educational technology to non-Western societies; problems and ethics of directed socio-cultural change will be analyzed and principles of directed change will be developed. Not offered on a regular basis. Availability to be determined by the department.

ANTH235 (Liberal Arts) Economic Anthropology 3 hrs. 3 crs. Economic life and systems of pre-industrial and peasant societies with emphasis on the integration of economy and technology with social and political institutions. Preq: ANTH 101, or ECON 101, or ECON 102. Not offered on a regular basis. Availability to be determined by the department.

ANTH241 (Liberal Arts) Ethnology of Africa 3 hrs. 3 crs. Survey of traditional and contemporary societies of Africa; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341. Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis.

ANTH242 (Liberal Arts) Ethnology and Ethnography of Asia 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH243 (Liberal Arts) Ethnology and Ethnography of The Caribbean 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH244 (Liberal Arts) Ethnology of Latin America 3 hrs. 3 crs. Survey of traditional and contemporary societies of Latin America; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 345. Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software.

ANTH245 (Liberal Arts) Ethnology and Ethnography of The Mediterranean, Middle East 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH246 (Liberal Arts) Ethnology and Ethnography of North American Indians 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH247 (Liberal Arts) Ethnology and Ethnography of Oceania 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH248 (Liberal Arts) Ethnology and Ethnography of Europe 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH249 (Liberal Arts) Anthropology of Puerto Rico 3 hrs. 3 crs. Historical and structural dimensions of the rural peasantry and urban poor; the effects of the environment and religions, family, and labor associations on values and attitudes. Preq: ANTH 101. Not open to students with credit in ANTH 349. Not offered on a regular basis. Availability to be determined by the department.

ANTH250 (Liberal Arts) Ethnic America 3 hrs. 3 crs. The United States as well as almost all countries in the Americas is multi-

cultural and multi-racial. This course studies the influence of the major ethnic and cultural migrations to the Americas. What skills did they bring with them that allowed for varying acculturation success? What influence have they had on American culture? Preq: ANTH 101 and ENG 125 Coreq: ANTH 11 and ENG 125 Can be offered as a face-to-face course, a Hybrid course or as a fully online asynchronous course.

ANTH270 (Liberal Arts) Introduction to Ethnomusicology 3 hrs. 3 crs. An introduction to ethnomusicological theories and practices. Musics will be studied within their cultural and historical contexts. Regions of investigation may include (but are not limited to): Asia, Africa, the Middle East, the Caribbean, South America, and Oceania. Preq: ENG 125 Not open to students with credit in MUS 270. Cross-listed as MUS 270. This is a writing intensive course.

ANTH285 (Liberal Arts) Environmental Justice in North America 3 hrs. 3 crs. This course introduces students to ways in which ecological degradation is linked to patterns of environmental racism; the values, goals, history, and scope of the environmental justice movement; and relevant theories and methods drawn from multidisciplinary foundations. The past, present, and prospects of environmental claims-making in North America will be explored. Preq: Sophomore standing or permission of the department Not open to students with credit in BLST 285 This course is cross listed with BLST 285

ANTH301 (Liberal Arts) Alcoholism and Obesity Cross-Culturally 3 hrs. 3 crs. The occurrence of alcoholism and compulsive overeating in primitive, peasant, and industrial societies and their relationship to cultural stress factors. Preq: ANTH 101 or ANTH 152 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ANTH302 (Liberal Arts) Anthropology of Aging 3 hrs. 3 crs. Aging in human societies around the world, with special emphasis on the influence of ecological, techno-economic and social structure factors on the position of the aged. Preq: One introductory course from any of the behavioral sciences. Not offered on a regular basis. Availability to be determined by the department.

ANTH303 (Liberal Arts) Food and Culture 3 hrs. 3 crs. Food is not only something we eat, it is something we use to define ourselves. Ingestion and incorporation are central to our connection with the world outside our bodies. Food's powerful social, economic, political and symbolic roles cannot be ignored--what we eat is a marker of power, cultural capital, class, ethnic and racial identity. This course will consider the ways in which popular culture reveals our relationship with food and our own bodies how these have become and arena for political and ideological battles. The course will address issues around food, culture and gender. Preq: ANTH 101 and WRIT 301 or 302 or 303 Coreq: ANTH 11 and WRIT 31 or WRIT 32 or WRIT 33 This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.

ANTH310 (Liberal Arts) Techniques of Cross-Culture Research 3 hrs. 3 crs. Testing theories and hypotheses about human behavior from world-wide samples of societies, training in

the use of Human Relations Area Files and in the use of library computer programs for cross-cultural research. Preq: One introductory course from either anthropology, psychology or political science. Not offered on a regular basis. Availability to be determined by the department.

ANTH311 (Liberal Arts) Urban Anthropology 3 hrs. 3 crs. Introduction to the variety of urban life styles. Pre-industrial, Third World, and Western Cities in comparison. The anthropological approach to sub-cultures in an urban setting. Preq: ANTH 101 Course is offered as an asynchronous online course using the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software.

ANTH315 (Liberal Arts) Hunger and Agriculture in Developing Nations 3 hrs. 3 crs. Problems posed by growing populations making increased demands on limited food-producing capabilities in developing countries, taking into consideration nutritional needs, traditional and modern food-producing technologies, and environment. Preq: ANTH 101. Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software.

ANTH321 (Liberal Arts) Social Research II 3 hrs. 3 crs. Application of the scientific method, the logic of experimentation, and rules of evidence to cultural and social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics. Preq: ANTH 220 or SOC 220 or SCWK 350. Not open to students with credit in SOC 321 or SCWK 470.

ANTH348 (Liberal Arts) Heritage, Culture, and Memory 3 hrs. 3 crs. An exploration of the political and cultural significance of Cultural Heritage Sites. Through case studies from around the world (with special emphasis on sites in Africa and its Diaspora), students will be led to interrogate the politics of historic preservation, and the complex set of motivations and decisions related to the identification, preservation, exhibition, and interpretation of heritage and culture. Preq: ANTH 101 or BLST 101 Coreq: ANTH 11 or BLST 11 Not open to students with credit in BLST 348 This course is cross listed with BLST 348

ANTH349 (Liberal Arts) Race, Housing, and Community 3 hrs. 3 crs. This course will explore the historic and persistent struggles of lower and middle class African Americans to attain property and maintain stable communities in the face of discriminatory policies and practices of government, Realtors and majority communities. Additionally, case study evidence will lead students to understand the complex bundle of issues associated with gentrification and displacement, and means of resistance (i.e. community building initiatives) utilized by communities confronted with potential destabilization. Preq: ANTH 101 or BLST 101 Coreq: ANTH 11 or BLST 11 Not open to students with credit in BLST 349 This course is cross listed with BLST 349

ANTH350 (Liberal Arts) Anthropology of Tourism 3 hrs. 3 crs. The study of tourism and its role in acculturation, modernization, and economic development. Preq: ANTH 101 or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

ANTH351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews – individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social and behavioral science disciplines. Preq: Credits in ANTH, BLST OR SOC. Coreq: Credits in ANTH, BLST OR SOC. This course may be offered as a traditional class or a hybrid. Course is cross listed with BLST 351 and SOC 351

ANTH361 (Liberal Arts) Primitive Social Organization 3 hrs. 3 crs. Study of the origins and functions of marriage, the family, and kinship in human societies. Study of cultural evolution. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH362 (Liberal Arts) Social Organization of Complex Societies 3 hrs. 3 crs. Analysis of complex socio-political systems, including feudal societies, bureaucratic empires, capitalist and socialist states. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH363 (Liberal Arts) Political Anthropology 3 hrs. 3 crs. Anthropological approaches to political structure, process, and change; theories of political evolution and the cross-cultural variability of political systems. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH364 (Liberal Arts) Social Movements in the African Diaspora 3 hrs. 3 crs. This course provides a transitional overview of African peoples' movements of resistance to systems of oppression; maroon communities, slave revolts, the Haitian Revolution, the U.S. Civil War, African and Caribbean independence struggles, black nationalism, the civil rights movement, the divestment campaign against apartheid South Africa, global justice, debt cancellation, affirmative action struggles, neighborhood organizing, and blacks' participation and autonomous contributions to broader coalitions addressing housing, education and welfare rights. Preq: AAS 101, WRIT 301, 302 OR 303 Coreq: AAS 11, WRIT 31, 32 or 33 This is a Writing Intensive course

ANTH365 (Liberal Arts) Cultural Systems of Population Control 3 hrs. 3 crs. Comparative analysis of cultural responses to problems of a severe population deficit and surplus in simple and complex societies. Preq: ANTH 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ANTH380 (Liberal Arts) Theory and Method in Anthropology 3 hrs. 3 crs. The development of anthropological theory and research methods, and the interrelationship of particular schools of thought with particular methods. Preq: ANTH 101 and sophomore status. Not open to students with credit in ANTH 311 or ANTH 381. Not offered on a regular basis. Availability to be determined by the department.

ANTH393 (Liberal Arts) Anthropology of Religion 3 hrs. 3 crs. A survey of anthropological approaches to religion, emphasizing both the theoretical contribution of anthropology to the understanding of religion and the cross-cultural variability of religious belief and practice. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH401 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 crs. Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

ANTH402 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 crs. Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

ANTH403 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 crs. Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

ANTH406 (Liberal Arts) Anthropology and Education 3 hrs. 3 crs. The anthropology of education has a rich and varied history of investigating the linkages between culture and learning. Anthropologists studying education have sought to examine learning and academic achievement as ongoing social processes and as cultural products deeply embedded in broader historical, economic, political, social, and cultural frames. In this course, we will discuss selected works in the anthropology of education, both classic and contemporary, to understand the unique contributions anthropological perspectives make to the study of race, ethnicity, gender, class, and language in education. Special consideration is given to "bilingual" and "bicultural" (and "multicultural") education in the United States and elsewhere. Course readings will focus on formal schooling and informal education in the United States; an emphasis placed on studies of minority groups in public urban schools. Informed by the course readings, we will explore the following questions: What is a cultural analysis of schooling? What insights does ethnography, anthropology's signature method, provide to key educational issues, like achievement gaps, bilingual education, and uneven access to higher education? Preq: ANTH 101 and WRIT 301 or 302 or 303 Coreq: ANTH 11 and WRIT 31 or WRIT 32 or WRIT 33 This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.

ANTH442 (Liberal Arts) Culture and Personality 3 hrs. 3 crs. An examination of relationships between individual psychological functioning and socio-cultural processes, with examples drawn from primitive, peasant, and modern societies. Preq: ANTH 101. Course

is offered as an asynchronous online course using the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.

ANTH451 (Liberal Arts) Ecological Anthropology 3 hrs. 3 crs. The interrelationships among biological, cultural, and environmental variables in particular ecosystems. Biological variables include plants and animals as well as man. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

ANTH490 (Liberal Arts) Independent Study 3 hrs. 3 crs. Independent, guided research under the supervision of the Anthropology faculty. Preq: 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.

ANTH491 (Liberal Arts) Independent Study 2 hrs. 2 crs. Independent, guided research under the supervision of the Anthropology faculty. Preq: 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.

ANTH492 (Liberal Arts) Independent Study 1 hrs. 1 crs. Independent, guided research under the supervision of the Anthropology faculty. Preq: 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.

ANTH495 (Not Liberal Arts) Summer Field Experience 0 hrs. 3 crs. Summer field training programs in anthropology conducted by approved institutions. Preq: 9 credits in Anthropology or permission of instructor. Hours arranged. Interested students should consult coordinator of anthropology prior to field experience. These courses may not be used to fulfill the liberal arts requirement. Not offered on a regular basis. Availability to be determined by the department.

ANTH496 (Not Liberal Arts) Summer Field Experience 0 hrs. 3 crs. Summer field training programs in anthropology conducted by approved institutions. Preq: 9 credits in Anthropology or permission of instructor. Hours arranged. Interested students should consult coordinator of anthropology prior to field experience. These courses may not be used to fulfill the liberal arts requirement. Not offered on a regular basis. Availability to be determined by the department.

Art

FA104 (Liberal Arts) Introduction to Fine Arts 3 hrs. 3 crs. Introduction to form in the visual environment and the theories concerning its creation; development of understanding of the creative processes, past and present; introduction to art criticism.

FA150 (Liberal Arts, NOT Liberal Arts for Accounting Major) Visual Design: Two Dimensional 4 hrs. 3 crs. Investigation and analysis of the processes of visual communication and modes of visualization suggested by various two-dimensional materials including computer graphic output. Against a background of historical and contemporary design practices and theory and by

means of problem-solving projects, students explore and develop their own unique expression.

FA151 (Liberal Arts, NOT Liberal Arts for Accounting Major) Color 4 hrs. 3 crs. Introductory studies employing color; investigation of many different visual interactions and psychological effects. Some basic physics and a brief history of color theory.

FA152 (Liberal Arts, NOT Liberal Arts for Accounting Major) Visual Design: Three Dimensional 4 hrs. 3 crs. Investigation and analysis of the processes of visual communication and modes of visualization suggested by various three-dimensional material. Against a background of historical and contemporary design practices and theory and by means of problem-solving projects, students engage in inventive use of these materials; emphasis is given to the development of individual design.

FA155 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Drawing I 4 hrs. 3 crs. Introductory studies in line and light-dark contrasts. Models from nature and geometry with an emphasis on observation and control. Investigation of basic drawing systems in historical context.

FA253 (Liberal Arts, NOT Liberal Arts for Accounting Major) Graphic Design I 4 hrs. 3 crs. Visual design and communication theory. Visual forms and patterns as means of graphic signification; sign, symbol, and layout; poster and book design.

FA254 (Liberal Arts, NOT Liberal Arts for Accounting Major) Graphic Design II 4 hrs. 3 crs. Visual design and communication theory. Typography and printing techniques using letterpress and silk screen. Preq: FA 253 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA258 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Graphics I: Print-Making 4 hrs. 3 crs. The conceptual basis of relief-printed forms leading to initial studies with the woodcut process; investigation of several relief-print techniques in relation to the various conditions of illumination in which all objects appear. Course may include color printing employing block or screen processes. Not offered on a regular basis. Availability to be determined by the department.

FA264 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Painting I 4 hrs. 3 crs. Techniques of painting in various mediums.

FA265 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Painting II 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264.

FA273 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Sculpture I 4 hrs. 3 crs. Additional aspects of three-dimensional design in relation to one or more sculptural materials and their corresponding techniques.

FA274 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Sculpture II 4 hrs. 3 crs. Investigation of one or more sculptural materials and their corresponding techniques as a means of personal expression. Students investigate a variety of materials

and fabricating processes. Individual guidance in mixed media, environmental, conceptual and performance art. Preq: FA 273.

FA283 (Liberal Arts, NOT Liberal Arts for Accounting Major) Visual Communication Media I 4 hrs. 3 crs. Fundamentals of film making and television production: basic exploration of the media as a visual experience and its communication potential. Not offered on a regular basis. Availability to be determined by the department.

FA284 (Liberal Arts, NOT Liberal Arts for Accounting Major) Computer Graphics I 4 hrs. 3 crs. A hands-on introduction to the systems and resources of the Macintosh computer. Investigation of the image-making and text-handling capabilities of generic software, including Adobe Illustrator, Photoshop, and Painter. Development of original imagery from direct invention, digitized pictorial sources and selected type fonts. Final projects incorporate all course material and provide a basic experience of the computer as a comprehensive design instrument. Preq: Any 3 credit Fine Arts Studio course. Coreq: Any 3 credit Fine Arts Studio course.

FA290 (Liberal Arts) Ancient Art 3 hrs. 3 crs. Ancient architecture, sculpture, and painting from prehistoric to Roman times. Preq: FA 104 or permission of department.

FA291 (Liberal Arts) Art of Medieval Europe 3 hrs. 3 crs. Architecture, sculpture, and painting from early Christian through the Gothic period. Preq: FA 104 or permission of department.

FA296 (Liberal Arts) African Art 3 hrs. 3 crs. The forms and historical style of African Art. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA297 (Liberal Arts) History of Photography 3 hrs. 3 crs. A chronological and thematic history of the medium from its beginnings until the present day, examining technological and aesthetic developments. Preq: FA 104 Not offered on a regular basis. Availability to be determined by the department.

FA298 (Liberal Arts) Twentieth Century Trends in Photography 3 hrs. 3 crs. Significant photographic movements and figures in 20th century photography with emphasis on the documentary and art aspects. Investigation of the effect of photography on contemporary thought and action and of the relation of photography to other modes of plastic expression. Preq: FA 297 or FA 104 or FA 381. Field trips will be included. Not offered on a regular basis. Availability to be determined by the department.

FA303 (Liberal Arts) Film History: Style and Imagination I 4 hrs. 3 crs. A chronological exploration, from the beginnings to the end of World War II, of the ways in which film makers have expressed their responses to the world. A feature film will be shown each week and will be discussed before and after its presentation. Preq: ENG 120 or FA 104 or permission of department. Not open to students with credit in ENG 303, ENG 493 or FA 400. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

FA304 (Liberal Arts) Film History: Style and Imagination II 4 hrs. 3 crs. A chronological exploration, from the end of World War II to the present, of the ways in which film makers have expressed

their responses to the world. A feature film will be shown each week and will be discussed before and after its presentation. Preq: ENG 120 or FA 104 or permission of department. Not open to students with credit in ENG 304, ENG 494 or FA 401. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department

FA325 (Liberal Arts) Women and Art 3 hrs. 3 crs. A chronological and thematic overview of women as both producers and subject of art, including a historical survey of prominent female artists and their work, as well as investigation of how women have been portrayed in art over time by both genders. Preq: FA 104

FA355 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Drawing II 4 hrs. 3 crs. Continuation of Fine Arts 155; advanced problems. Preq: FA 155 or permission of department.

FA358 (Liberal Arts, NOT Liberal Arts for Accounting Major) Graphics II: Print-Making 4 hrs. 3 crs. The intaglio print as an integral part of graphic formulation; investigation of classical etching ideals leading to individual modes of perceptual thinking. The relationship between drawing and print making; emphasis on the technical problems in conjunction with the need to expand and clarify the individuality of the vision. Preq: FA 258. Not offered on a regular basis. Availability to be determined by the department.

FA364 (Liberal Arts, NOT Liberal Arts for Accounting Major) Painting III 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264.

FA365 (Liberal Arts, NOT Liberal Arts for Accounting Major) Painting IV 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264.

FA373 (Liberal Arts, NOT Liberal Arts for Accounting Major) Sculpture III 4 hrs. 3 crs. Investigation of one or more sculptural materials and their corresponding techniques. Preq: FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.

FA374 (Liberal Arts, NOT Liberal Arts for Accounting Major) Sculpture IV 4 hrs. 3 crs. Investigation of one or more sculptural materials and their corresponding techniques. Preq: FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.

FA381 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Photography I 4 hrs. 3 crs. Fundamentals of photographic communication including basic shooting and darkroom techniques.

FA382 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Photography II 4 hrs. 3 crs. Continuation of Fine Arts 381; emphasis on the development of a personal point of view. The exploration and perfecting of various advanced photographic techniques. Preq: FA 381.

FA383 (Liberal Arts, NOT Liberal Arts for Accounting Major) Visual Communication Media II 4 hrs. 3 crs. Television and film production with emphasis on the editing process. Analysis of cinemagraphic and video experiences in relation to image, light,

sound, time, and motion. Preq: FA 283. Not offered on a regular basis. Availability to be determined by the department.

FA384 (Liberal Arts, NOT Liberal Arts for Accounting Major) Computer Graphics II 4 hrs. 3 crs. The Macintosh computer as a specialized design instrument. Exposition of 2- and 3-dimensional material with advanced programs, including Adobe Photoshop, Illustrator, and PageMaker. Preq: FA 284 or permission of department. Final project requires camera-ready presentation with PageMaker.

FA385 (Liberal Arts, NOT Liberal Arts for Accounting Major) Film Making I 4 hrs. 3 crs. Development of special skill in shooting and editing to explore the visual potential of the medium. Analytical review of student and professional films. Preq: FA 283. Not offered on a regular basis. Availability to be determined by the department.

FA386 (Liberal Arts, NOT Liberal Arts for Accounting Major) Film Making II 4 hrs. 3 crs. Development of an identity with cinemagraphic experience and its communication value; emphasis on the perceptual factors of responses to chosen ideals and situations. Analytical review of student and professional films. Preq: FA 283. Not offered on a regular basis. Availability to be determined by the department.

FA390 (Liberal Arts) High Renaissance and Late Sixteenth-Century Art 3 hrs. 3 crs. Architecture, sculpture, and painting of the Italian masters of the 16th century. Preq: FA 104 or permission of department.

FA393 (Liberal Arts) American Art to 1913 3 hrs. 3 crs. Survey of American painting, sculpture, and architecture from Colonial times to the Armory Show of 1913. Emphasis on establishing the American tradition as it relates to Western Europe and England. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA394 (Liberal Arts) Twentieth-Century Art in the United States 3 hrs. 3 crs. Critical survey of American art forms from 1913 to the present. American developments from Impressionism and Post-Impressionism through the 20th century movements of Cubism, Surrealism, Abstract Expressionism, Pop, Optical, Computer, Minimal, and Conceptual Art. The introduction of photography and film as plastic arts. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA395 (Liberal Arts) Latin-American Art 3 hrs. 3 crs. Architecture, sculpture, and painting in Mexico, Central and South America; Pre-Columbian styles of the New World; spread of the Spanish tradition. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA398 (Liberal Arts) Afro-American Art 3 hrs. 3 crs. Art of Black people in the United States: its form as a significant contribution to the American scene. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA402 (Liberal Arts) Media, Culture, and the Visual Arts 3 hrs. 3 crs. Impact of mass media on the contemporary arts; influential critics appearing in newspapers, magazines, popular books, and the broadcast media, together with prominent art exhibits, dance concerts, etc.; current status of the arts through mass media interpretations; television as an art form. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA403 (Liberal Arts) Film and the Modern Arts 3 hrs. 3 crs. Major aesthetic movements of the modern era as they have influenced and reflected the development and achievements of cinema: Expressionism, Dada-Surrealism, Cubism, Constructivism. Preq: FA 297 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA444 (Liberal Arts, NOT Liberal Arts for Accounting Major) Advanced Studio I 4 hrs. 3 crs. Advanced work in painting, drawing, print-making, design, photography, or sculpture. Individual programs performed within group structure; development of a particular idea or direction in substantial depth. Written statement of intention and brief plan of study required. Outside artists invited to offer critiques and lectures. Scheduled trips to studios and exhibitions of particular interest. Preq: Senior status or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA445 (Liberal Arts, NOT Liberal Arts for Accounting Major) Advanced Studio II 4 hrs. 3 crs. Advanced work in painting, drawing, print-making, design, photography, or sculpture. Individual programs performed within group structure; development of a particular idea or direction in substantial depth. Written statement of intention and brief plan of study required. Outside artists invited to offer critiques and lectures. Scheduled trips to studios and exhibitions of particular interest. Preq: Senior status or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA455 (Liberal Arts, NOT Liberal Arts for Accounting Major) Advanced Drawing I 4 hrs. 3 crs. Investigation of basic drawing systems; the development of graphic structure. Preq: FA 355 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA456 (Liberal Arts, NOT Liberal Arts for Accounting Major) Advanced Drawing II 4 hrs. 3 crs. Continuation of FA 455, advanced problems Preq: FA 355 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA463 (Liberal Arts, NOT Liberal Arts for Accounting Major) Painting V 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264. Not offered on a regular basis. Availability to be determined by the department.

FA464 (Liberal Arts, NOT Liberal Arts for Accounting Major) Painting VI 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264. Not offered on a regular basis. Availability to be determined by the department.

FA465 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Studies; Selected Studio Area 4 hrs. 3 crs. An intensive investigation of a selected studio problem. Preq: Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.

FA466 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Studies; Selected Studio Area 4 hrs. 3 crs. An intensive investigation of a selected studio problem. Preq: Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.

FA467 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Studies; Selected Studio Area 4 hrs. 3 crs. An intensive investigation of a selected studio problem. Preq: Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.

FA468 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Studies; Selected Studio Area 4 hrs. 3 crs. An intensive investigation of a selected studio problem. Preq: Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.

FA469 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Studies; Selected Studio Area 4 hrs. 3 crs. An intensive investigation of a selected studio problem. Preq: Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.

FA473 (Liberal Arts, NOT Liberal Arts for Accounting Major) Sculpture V 4 hrs. 3 crs. Investigation of one or more sculptural materials and their corresponding techniques. Preq: FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.

FA474 (Liberal Arts, NOT Liberal Arts for Accounting Major) Sculpture VI 4 hrs. 3 crs. Investigation of one or more sculptural materials and their corresponding techniques. Preq: FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.

FA475 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.

FA476 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.

FA477 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: Senior status; 9 credits of art history, or permission of department. The topic varies with each

offering. Field trips may be required and outside speakers may be invited.

FA478 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.

FA479 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.

FA481 (Liberal Arts, NOT Liberal Arts for Accounting Major) Photography III 4 hrs. 3 crs. Continuation of individual photography problems; emphasis on broadening and strengthening of perceptual individuality. Preq: FA 381.

FA482 (Liberal Arts, NOT Liberal Arts for Accounting Major) Photography IV 4 hrs. 3 crs. Independent problems; use of basic skills to develop personal statements. Preq: FA 381.

FA488 (Liberal Arts, NOT Liberal Arts for Accounting Major) Video I 4 hrs. 3 crs. Function, structure and procedures of video as an art form and a teaching aid; formal program presentations. Preq: FA 283. Not offered on a regular basis. Availability to be determined by the department.

FA489 (Liberal Arts, NOT Liberal Arts for Accounting Major) Video II 4 hrs. 3 crs. Central theory of TV, aesthetic and techniques; creative experimentation of TV as art form. Preq: FA 283. Not offered on a regular basis. Availability to be determined by the department.

FA490 (Liberal Arts) Twentieth-Century Art 3 hrs. 3 crs. Architecture, sculpture, and painting in the 20th century to the present time. Preq: FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FA499 (Liberal Arts) Research in Art History 3 hrs. 3 crs. Examination of a special problem in art history and the writing of a research paper under the direction of a member of the department. Preq: 9 credits of Art History and department approval.

Astronomy

ASTR101 (Liberal Arts) Introductory Astronomy: The Sun and Planets 3 hrs. 3 crs. This course is an introductory level overview of the structure and properties of the Solar System, Sun, planets and their moons, comets, asteroids, meteors and more. The general principles of planetary motion and evolution will also be covered such as the appearance and motion of the Sun, sky, Moon and planets, gravity, the nature of light, magnetism and earthquakes. The properties of other newly discovered solar systems, the formation, evolution and fate of solar systems and the

conditions for life here and elsewhere will also be discussed. Not open for students with credit in ASTR 111 or ASTR 140 Laboratory, computer and observatory exercises will be used, including at least one night time lab.

ASTR102 (Liberal Arts) Introductory Astronomy: Stars, Galaxies and the Universe 3 hrs. 3 crs. This course concerns the most basic elements of the sky: the stars. Students learn not only how the sky moves and appears, but also how that information forms our model of the Universe. To build this discussion the student will learn how modern science allows us to determine the fundamental properties of stars (temperature, size, distance and mass) and to probe the depths of the Universe. Specific topics may include Kepler's laws of orbits, nuclear fusion, the Hertzsprung-Russell diagram, the stellar life cycle, binary stars, the Milky Way and galaxies, the Big Bang and the fate of the Universe. Not open to students with credit in ASTR 121.

ASTR140 (Liberal Arts) Introductory Astronomy: Observations of the Sky 4 hrs. 3 crs. This laboratory course introduces the fundamentals of astronomy such as: identifying constellations: the apparent motion of the sky, Sun, Moon and planets; the nature of light; gravity; the properties and life cycles of stars; and measuring astronomical distances. Laboratory, computer and planetarium exercises will be used, and at least one nighttime lab will be scheduled. 2 hours lecture, 2 hours laboratory.

ASTR201 (Liberal Arts) The Solar System 5 hrs. 4 crs. A scientific introduction to the Sun, Earth, planets and Solar System. Topics include gravity, magnetism, electromagnetic radiation, orbital motion, comparative planetology, atmospheres, minor bodies, and the formation and evolution of the Solar System. Also discussed are the structure and influence of the Sun on the planets, the possibility of life beyond the Earth, and the discovery of planets around the stars. Preq: MATH 121 Coreq: MATH 121 Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.

ASTR202 (Liberal Arts) Stars and the Milky Way 5 hrs. 4 crs. A scientific introduction to the stars and our home galaxy. Topics include gravity, electromagnetic radiation, thermodynamics, fusion, stellar motions and evolution, the general properties of stars and how they are derived from theory and observation. Also discussed are the structure, size, content and rotation of the Milky Way galaxy. Preq: MATH 121 Coreq: MATH 121 Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.

ASTR203 (Liberal Arts) Introduction to Cosmology 5 hrs. 4 crs. A scientific introduction to galaxies and the structure, origin and fate of the Universe. Topics include gravity, special and general relativity, electromagnetic radiation, galaxies and galaxy clusters, and Hubble's law. Also discussed are the expansion of the Universe, the Big Bang, inflation, and the parameters that determine the fate and content of Universe: dark matter, the density of the fate and content of Universe: dark matter, the density of in the cosmic microwave background radiation. Preq: MATH 121 Coreq: MATH 121 Laboratory, computer and observatory exercises will be

used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.

ASTR301 (Liberal Arts) Observational Astronomy 5 hrs. 4 crs. Nothing is more central to astronomical study than collecting and interpreting the light from the sky. The laboratory and observatory experiences in this class, along with the supporting lecture material, are essential for students minoring in Astronomy or majoring in Space Science. You will get hands-on experience in modern astronomical techniques, and complete semester-long (mostly naked eye) observing projects. You will become familiar with current astronomical science, telescopes, instrumentation and terminology specific to working at various wavelengths of the electromagnetic spectrum. In addition, you will utilize methods for data reduction and statistical analysis. Preq: PHYS 107, PHYS 108, PHYS 101, PHYS 102, PHYS 151, or PHYS 152 and a 100- or 200-level Astronomy or Space Science course or permission of the department. 3 hours lecture, 2 hours laboratory.

ASTR495 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent Study under supervision of natural sciences faculty. Preq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum of 6 hours per week.

ASTR496 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent Study under supervision of natural sciences faculty. Preq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum of 6 hours per week.

Biology

BIO110 (Liberal Arts) Environmental Biology 3 hrs. 3 crs. Introduction to basic principles of ecology and evolution; description of genetic variation in populations, the properties of ecosystems, and the interaction between them which leads to natural selection and evolutionary change. Current problems including the population explosion and biological effects of pesticides and other pollutants. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course. THIS COURSE MAY BE OFFERED AS AN ONLINE COURSE.

BIO120 (Liberal Arts) Principles of Inheritance and Human Reproduction 3 hrs. 3 crs. An introduction to the genetics and chemistry of biological macromolecules, including DNA, RNA, and enzymes, and an examination of their role in life processes. Genetics and biology of sexual reproduction; embryonic growth and development. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course.

BIO130 (Liberal Arts) Biology of the Brain and Behavior 3 hrs. 3 crs. Biology of the Brain and Behavior introduces students to the structure and function of the nervous system as well as the biological concepts that underlie human thought, physiology and behavior. The fundamentals of neuroanatomy and neurophysiology are presented to provide the basis for understanding human cognition, learning and emotion. The goal of this course is to

provide students, who may have little or no background in biology, with an understanding of the biological basis of human behavior.

BIO201 (Liberal Arts) \$ Biological Principles I 6 hrs. 4 crs. The biology of organisms, structure and function of plant and animal organ systems; plant and animal phylogeny; ecology and evolution. Experimental study of biological systems. 2 hours lecture, 1 hour recitation/preparatory, 3 hours laboratory.

BIO202 (Liberal Arts) \$ Biological Principles II 6 hrs. 4 crs. Introduction to the chemistry and biochemistry necessary to support living beings, with emphasis on biological macromolecules and intermediary metabolism; cellular biology; genetics; correlation of cell structure, chemistry and function. Experimental study of cellular biology and chemistry, classical genetics. Preq: BIO 201 Coreq: CHEM 11. 3 hours lecture, 1 hour recitation/preparatory, 3 hours laboratory.

BIO231 (Liberal Arts) Biology of Plants 6 hrs. 4.5 crs. Phylogenetic relationships of plants based on comparative studies of structure, function, biochemistry, development, and life cycles; genetics and reproduction of algae, slime molds, fungi, non-vascular and vascular plants. Preq: BIO 202. 3 hours lecture, 3 hours laboratory.

BIO234 (Liberal Arts) \$ Anatomy and Physiology I 6 hrs. 4 crs. A study of the structure and function of the human body. Topics include: basic anatomical terminology, general organization of the body, cells and tissues, integumentary system, skeletomuscular system, nervous and endocrine systems. Laboratory exercises will include dissection of a representative vertebrate as well as experiments illustrating physiological principles. Coreq: CHEM 15 or 11, BIO 234L Not credited toward fulfillment of Natural Science area requirements or Biology major requirements. 2 hours lecture, 1 hour recitation, 3 hours laboratory.

BIO235 (Liberal Arts) \$ Anatomy and Physiology II 6 hrs. 4 crs. Continuation of Biology 234. Topics include: circulatory system, respiratory system, digestive system, reproductive and excretory systems. Preq: BIO 234. Coreq: BIO 235L Not credited toward fulfillment of Natural Science area requirements or Biology major requirements. 2 hours lecture, 1 hour recitation, 3 hours laboratory.

BIO265 (Liberal Arts) \$ Clinical Microbiology 4 hrs. 3 crs. Morphology, metabolism, growth, nutrition, and genetics of microorganisms including bacteria, viruses, fungi, algae, and protozoa, as a background for the discussion of the role of microorganisms in disease. Topics include the disease process leading to infections of the respiratory, gastrointestinal, and urogenital systems; blood, skin, wound, nosocomial, and opportunistic infections. Natural and acquired immunity, physical and chemical methods of control, chemotherapy and antibiotic therapy in disease treatment. Laboratory exercises include the handling and cultivation of microorganisms, differential staining and the diagnostic bacteriology of clinically relevant gram positive and gram negative bacteria. Preq: CHEM 105 or CHEM 101 Coreq: BIO 234, BIO 265L Not credited towards fulfillment of Natural Science area requirements or Biology major requirements. Not open to students with credit in BIO 465. 2 hours lecture, 2 hours laboratory.

BIO281 (Liberal Arts) \$ Human Structure and Function 5 hrs. 4 crs. Emphasis on muscular systems, nervous systems, cardiovascular system and respiratory gas exchange; fundamentals of bio-feedback are presented as exemplified by the central and autonomic nervous systems and the endocrine system. Preq: BIO 120. Coreq: BIO 281L Not credited toward fulfillment of Biology major requirements and Natural Science Area Requirements. Designed for students in Physical Education and Health Education. 3 hours lecture, 2 hours laboratory.

BIO283 (Liberal Arts) The Biology of Aging 3 hrs. 3 crs. The Biology of Aging is designed for students of gerontology who wish to study in greater detail the biological basis of aging changes. Topics will include: Theories of biological aging; the comparative biology of aging in vertebrates and mammals; the influence of genetics, environment, nutrition and exercise on aging; the cellular basis of aging; anatomical and physiological changes in the musculoskeletal, nervous, cardiovascular, respiratory, cutaneous, gastrointestinal, urinary, endocrine, reproductive and immune systems. In studying the organ systems, all sections will be preceded by a review of the normal condition in young adults. Preq: GERO 101. Not credited toward fulfillment of Biology majors and Natural Science Area Requirement.

BIO301 (Liberal Arts) \$ Molecular Biology and Biotechnology 6 hrs. 4 crs. Molecular Biology and Biotechnology is divided into five main topics: Molecular Genetics; Methods in Biotechnology; Bioinformatics; Protein folding and interactions; Infection and immunity. A treatment of ELSI (Ethical, Legal and Social Implications) pervades the course. Preq: BIO 202, CHEM 102 Coreq: BIO 202, CHEM 102 hrs lecture, 1 hr recitation, 3 hrs lab

BIO307 (Liberal Arts) Biostatistics 4 hrs. 3 crs. The basic application of statistics to the analysis of biological and environmental data; concepts of sampling and population distributions. Laboratory session will consist of introduction to digital computers and application of statistical packages to data analysis. Preq: Completion of instrumental Math Requirement Coreq: BIO 21. 2 hours lecture, 2 hours laboratory.

BIO308 (Liberal Arts) \$ Invertebrate Biology 6 hrs. 4.5 crs. Major invertebrate groups; emphasis on marine invertebrates and the biology of the oceans and on the relationship between man and significant invertebrate types such as parasites and insects. Preq: BIO 202. 3 hours lecture, 3 hours laboratory.

BIO309 (Liberal Arts) \$ Biology of the Chordates 6 hrs. 4.5 crs. Survey of the anatomy, systematics, evolution, life histories, behavior and ecology of chordates with emphasis on the vertebrates. Laboratory includes dissection of representative vertebrates. Preq: BIO 202. 3 hours lecture, 3 hours laboratory. Trips to museums, aquariums, and zoos.

BIO320 (Liberal Arts) \$ Cell Biology 6 hrs. 4.5 crs. Examination of the cell as the unit of living matter using molecular and experimental approaches. Theory and laboratories in gene expression, protein activity, subcellular structure and function, cell regulation, and cell-to-cell communication. Preq: BIO 202 Not open

to students with credit in BIO 445. 3 hours lecture, 3 hours laboratory.

BIO325 (Liberal Arts) Histology 6 hrs. 4.5 crs. A study of the microscopic structure of animal tissues, including their cellular composition, origin, function and arrangement into organs. Preq: BIO 202. Laboratories will emphasize the preparation and study of prepared tissue and organ specimens. 3 hours lecture, 3 hours laboratory.

BIO334 (Liberal Arts) \$ Comparative Physiology 6 hrs. 4.5 crs. Excitable membranes and general properties of nerve function; receptors, reflex mechanisms, autonomic nervous system, pathways and integrative properties of the central nervous system; comparison of function in various organisms of muscular, respiratory, cardiovascular, excretory, digestive, salt-water regulatory, temperature regulatory and endocrine mechanisms. Preq: BIO 202. 3 hours lecture, 3 hours laboratory.

BIO336 (Liberal Arts) Pathophysiology 3 hrs. 3 crs. The study of mechanisms by which disease processes occur in the human body. Responses of the organ systems to the pathophysiologic condition and how these differ from the normal function. Emphasis will be placed on structural and functional disorders of the various biological systems. Preq: BIO 234, BIO 235 and CHEM 105. Not credited toward fulfillment of Biology major requirements. This course is designed for students in the B.S. nursing program but is open to interested students who meet the requirements.

BIO382 (Liberal Arts) Nutrition 2 hrs. 2 crs. Principles and issues in nutrition in health and disease. Diets: facts and fads, deficiencies and disease states, drugs and additives. Nutrient absorption and malabsorption; metabolism for energy, development and growth. Special needs in nutrition from fetal development to the aged, and in various physiological states. Preq: BIO 234, BIO 235, CHEM 105 or 101 Not credited toward fulfillment of Biology major requirements. Not offered on a regular basis. Availability to be determined by the department.

BIO403 (Liberal Arts) \$ Ecology 6 hrs. 4.5 crs. An examination of the factors comprising ecosystems with emphasis on the specific relationships between plants and animals in various types of habitats. Particular attention to the ecological role played by man. Preq: BIO 202. 3 hours lecture, 3 hours laboratory. Laboratory and field work will consist of studying those physical, chemical and biological techniques which are useful in environmental analysis.

BIO410 (Liberal Arts) Neurobiology 3 hrs. 3 crs. This course is a study of the structure and function of the nervous system, including neuroanatomy, neurophysiology and systems neurobiology. Topics include the structure and organization of the nervous system, mechanisms of neural signal generation and transmission, sensory function, motor control, and higher brain functions. Preq: BIO 301 3 hrs lecture

BIO411 (Liberal Arts) Laboratory in Neurobiology 3 hrs. 1.5 crs. This course is an experimental study of the structure and function of the nervous system. Topics investigated include: structure of the central nervous system, ionic mechanisms of the resting and action potentials, neuromuscular synapses and synaptic

transmission, and features of sensory function. Bio 410 must be taken as a pre- or corequisite. Preq: BIO 410 Coreq: BIO 41 BIO 410 MUST be taken as a pre-req or co-req. 3 hrs laboratory

BIO412 (Liberal Arts) Biochemistry 3 hrs. 3 crs. Enzyme systems and their control, intermediary metabolism; transport mechanisms and role in cell function; structure of nucleic acids; protein synthesis. The interrelationship of these processes and effects of disease will be stressed. Preq: BIO 202; CHEM 231 and CHEM 232 or CHEM 230. Not open to students with credit in CHEM 412.

BIO415 (Liberal Arts) \$ Biochemistry and Molecular Biology 4 hrs. 2 crs. Model building and wet lab experiments to introduce the fundamentals of nucleic acids and proteins: structure, measurements and manipulations; intermediary metabolism. Preq: BIO 412, or CHEM 412. Coreq: BIO 412, or CHEM 412. 4 hours laboratory.

BIO444 (Liberal Arts) \$ Genetics 6 hrs. 4.5 crs. Genetics will cover molecular genetic principles and concepts in depth, including how genetic information can be manipulated to understand its function. An emphasis will be placed on new genetic tools and model organisms, and the genetic of diseases and traits in the human population. It will mainly consist of lectures and integrated laboratory exercises, which will use transgenic model organisms. Preq: BIO 201, 202, 301 Coreq: BIO 21, 22, 31

BIO452 (Liberal Arts) Developmental Biology 6 hrs. 4.5 crs. The molecular, cellular, and genetic bases of developmental processes in non-embryonic and embryonic systems; experimental analysis of early embryogenesis in the sea urchin, chick, and frog and morphogenesis of cells, tissues, and organs. Preq: Biology 301; Chemistry 231 3 hours lecture, 3 hours laboratory.

BIO465 (Liberal Arts) \$ Microbiology 6 hrs. 4.5 crs. Ultrastructure, physiology, and metabolic and catabolic reactions in microorganisms as they relate to their industrial or medical usefulness; classification, with emphasis on disease-related organisms, aspects of water, food and dairy microbiology; immunological techniques applicable to medical microbiology. Preq: Biology 301; Chemistry 230 and 235 or 231 and 232 3 hours lecture, 3 hours laboratory.

BIO466 (Liberal Arts) \$ Immunology 6 hrs. 4.5 crs. Origin and mechanisms of the immune response; molecular structure of antigens and antibodies; cell-mediated immune responses; the genetic basis of antibody formation; neoplastic disease and immunity; immunosuppression; and transplantation. Preq: BIO 301; CHEM 230 and 235 or 231 and 232. 3 hours lecture, 3 hours laboratory.

BIO477 (Liberal Arts) \$ Evolution 4 hrs. 3 crs. We will review the major principles of evolutionary biology through critical analysis of the theory and examination of its empirical support. The four main sections of the course will cover (1) origins of evolutionary theory, (2) processes of evolution, (3) generation and maintenance of biological diversity, and (4) macroevolutionary transitions. Preq: BIO 301 2 hrs lecture, 2 hours recitation

BIO480 (Liberal Arts) Theory and Experimentation in Biotechnology 7 hrs. 5 crs. Theory and methods of contemporary molecular biology and biotechnology. Topics and experiments include methodology in the forefront of genetic engineering, including cell culture, separation processes, recombinant DNA technology, PCR, sequence analysis and protein expression. Ethical, legal and social implications of genomics and biotechnology. This is a Writing Intensive course. Preq: Prereq: BIO 301, BIO 412 or CHEM 412, Writ 301, 302 or 303 Not open to students with credit for BTEC 480. This is a Writing Intensive course.

BIO485 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. Intensive study of an advanced biological topic. Preq: BIO 202, Junior status in Biology. Lecture, laboratory hours to be arranged. The subject to be announced prior to registration. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

BIO486 (Liberal Arts) Special Topics in Biology 3 hrs. 2 crs. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Fieldtrips may be required. Preq: BIO 301, Junior status in Biology, WRIT 301, 302, or 303 This is a Writing Intensive course.

BIO487 (Liberal Arts) Special Topics in Biology 3 hrs. 2 crs. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Field trips may be required. This is a Writing Intensive course. Preq: BIO 301, Junior status in Biology, WRIT 301, 302, or 303 This is a Writing Intensive Course. The subject to be announced prior to registration. Field trips may be required..

BIO488 (Liberal Arts) Special Topics in Biology 3 hrs. 2 crs. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Fieldtrips may be required. Preq: BIO 301, Junior status in Biology, WRIT 301, 302, or 303 This is a Writing Intensive course.

BIO489 (Liberal Arts) Special Topics in Biology 3 hrs. 2 crs. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Fieldtrips may be required. Preq: BIO 301, Junior status in Biology, WRIT 301, 302, or 303 This is a Writing Intensive course.

BIO490 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. Preq:

Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO491 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO492 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO493 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO140 (Liberal Arts) Human Biology 4 hrs. 3 crs. cr, 2 hrs lecture, 2 hrs lab. This course is an introduction to the human body covering structure and function of the human in health and disease. Topics include the skeletal, muscular, digestive, excretory, respiratory, circulatory, nervous, endocrine, and reproductive systems. Nutrition, genetics and blood disorders will also be covered. Laboratory experience will complement the lectures. hrs lecture, 2 hrs lab.

Biotechnology

BTEC203 (Not Liberal Arts) Introduction to Biotechnology 2 hrs. 2 crs. An introduction to the field of biotechnology including recombinant DNA technology, polymerase chain reaction, genetic engineering, bioreactor design and control, bioinformatics, protein engineering and rational drug design. Scientific issues pertaining to government regulation, U.S. Pharmacopeia patent law, and ethics

will also be discussed. Preq: BIO 202, CHEM 102. Field trips may also be included.

BTEC350 (Not Liberal Arts) \$ Computational Biology and Molecular Design 4 hrs. 3 crs. Mathematical methods and computer-based applications are required to solve complex biological and biochemical problems. These problems often involve enormous data sets. Specific applications include computer-based analysis of physical mapping of DNA, construction of phylogenetic trees, and molecular structure prediction. Preq: BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 184). 2 hours lecture, 2 hours laboratory. Lecture presentations will be augmented with computer-based laboratory instruction.

BTEC352 (Not Liberal Arts) \$ Bioinformatics 4 hrs. 3 crs. Bioinformatics encompasses both the evolving conceptual basis, as well as the expanding methodology, for the organization and analysis of sequence data. It involves the application of computational and analytical methods to problems in biotechnology, biology and biochemistry. This course is designed to develop a structured approach to biological data as well as to build the tools required to analyze the data. Preq: BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 184). Students need access to a computer and the internet to complete the course assignments. 2 hours lecture, 2 hours laboratory.

BTEC480 (Not Liberal Arts) \$ Theory and Experimentation in Biotechnology 7 hrs. 5 crs. Theory and methods of contemporary molecular biology and biotechnology. Topics and experiments include methodology in the forefront of genetic engineering, including cell culture, separation processes, recombinant DNA technology, PCR, sequence analysis and protein expression. Ethical, legal and social implications of genomics and biotechnology. This is a Writing Intensive course. Preq: Prereq: BIO 301, BIO 412 or CHEM 412, Writ 301, 302 or 303 Not open to students with credit for BIO 480. This is a Writing Intensive course.

BTEC489 (Not Liberal Arts) \$ Special Topics in Biotechnology 3 hrs. 2 crs. An advanced a seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced topic of biotechnology. The subject of the seminar will be announced prior to registration. Field trips may be required. Preq: WRIT 301, 302, or 303, BIO 301, Junior Status in Biotechnology Coreq: WRIT 31, 32 OR 33 Not open to students with credit in BIO 489 This is a Writing Intensive course. Course is cross listed with BIO 489

Black Studies

BLST101 (Liberal Arts) Introduction to Black Studies 3 hrs. 3 crs. The human condition and experience of Black people in the United States; emphasis on cultural and historical perspectives. Not open to student with creidt in AAS 101

BLST102 (Liberal Arts) The Unforgiving Mirror: Race and Racism in Contemporary Society 3 hrs. 3 crs. This is a course about race and racism in the Americas, with particular emphasis on the Black experience in the U.S. We will make use of several

approaches _ including critical race theory, the experiences of everyday people, and the politics of popular culture - to understand the institutional and structural power of racism, as well as the ways in which ordinary people have articulated extraordinary resistance to the material, social, and psychological effects of racism.

BLST103 (Liberal Arts) Black Women in the Atlantic World 3 hrs. 3 crs. This course examines the foundations, ideas, concerns and implications of Black feminism within the context of the Black Atlantic. A major goal of this class is to foster dialogue and critical discussion about Black feminism as a site of theory and practice emphasizing social, political, and personal transformation.

BLST104 (Liberal Arts) Introduction to Africa 3 hrs. 3 crs. A basic examination of the continent from various points of view: its geography, its peoples and highlights of their history, conflicts of culture in Africa, modern political, social, and economic problems facing the continent. Not open to students with credit in AAS 172.

BLST202 (Liberal Arts) The Black Experience in the Caribbean 3 hrs. 3 crs. A basic historical examination of the African experience in the Caribbean; emphasis on the political, economic and social problems facing the region. Preq: ENG 125 Not open to students with credit in AAS 341.

BLST213 (Liberal Arts) African American Religions and Religious Practice 3 hrs. 3 crs. The growth, role and tenets of a diversity of Black churches in the United States. The relationship between religion, servitude, revolt and civil rights movements in the contexts of slavery and racial oppression. Preq: ENG 125 and One 100-level BLST course. Not open to students with credit in AAS 245.

BLST220 (Liberal Arts) Western African Literature in English 3 hrs. 3 crs. The literary expression of the former British colonies of West Africa. Representative authors include Chinua Achebe, Cyprian Ekwensi, Kofi Awoonor, Kwei Armah, Christopher Okigbo, J.P. Clark, and Wole Soyinka. Preq: BLST 104 and ENG 125. Not open to students with credit in AAS 220

BLST222 (Liberal Arts) Caribbean Literature in Translation 3 hrs. 3 crs. The Caribbean experience as presented in the literary works of its people from 1804 to the present, highlighting the historical role and literary representation of famous Caribbean personages. The role of the cultural review in the literary development of the Caribbean. Representative authors including Frantz Fanon, Claude McKay, Paul Nizer, Jacques Roumain, Aime Cesaire, Chantel, George Lamming, C.L.R. James, and Wilson Harris. Preq: Junior status or permission from the department. Not open to students with credit in AAS 322.

BLST237 The Contemporary Legacy of Slavery in the U.S. 3 hrs. 3 crs. The Contemporary Legacy of Slavery in the U.S. Preq: HIST 272

BLST241 (Liberal Arts) The Urbanization of Contemporary Africa 3 hrs. 3 crs. The impact on the urbanized African of the simultaneous existence of traditional and Western institutions in Africa today. The split personality of the urban African. Conflicts and resolutions consequent on the co- existence of the two systems.

Preq: ENG 124 and BLST 104 or HIST 276. Not open to students with credit in AAS 230.

BLST242 (Liberal Arts) The Urbanization of Contemporary American America 3 hrs. 3 crs. Causes and effects of the mass migration of Blacks from rural areas to large cities. The impact of mobility on inner-city institutions. Comparisons of Southern and Northern Blacks in terms of culture, economic, social, and political involvement in their communities Preq: ENG 125 and One 100-level BLST course not open to students with credit in AAS 285

BLST261 (Liberal Arts) Folklore: The African in America 3 hrs. 3 crs. Exploration, through folklore, of the origin and continuity from an African to an American setting of certain patterns of behavior to Black group life Preq: ENG 125 and One 100-level BLST course. Not open to students with credit in AAS 261.

BLST262 (Liberal Arts) Black American Culture 3 hrs. 3 crs. The evolution of Black- American culture and its effects on American cultural, political, social and economic life. Preq: One 100-level BLST course Not open to students with credit in AAS 360.

BLST285 (Liberal Arts) Environmental Justice in North America 3 hrs. 3 crs. This course introduces students to ways in which ecological degradation is linked to patterns of environmental racism; the values, goals, history, and scope of the environmental justice movement; and relevant theories and methods drawn from multidisciplinary foundations. The past, present, and prospects of environmental claims-making in North America will be explored. Preq: Sophomore standing or permission of the department Not open to students with credit in ANTH 285 This course is cross listed with ANTH 285

BLST286 (Liberal Arts) Africa and the Columbian Exchange 3 hrs. 3 crs. This course introduces the contributions of Africa and Africans to the Columbian exchange, the global transfers of people, culture, plants, animals, and microbes that were initiated with the discovery of America. It explores ways in which social and environmental transformations set in motion then are still unfolding, while today's appropriations and global transfers of commons by transnational corporations inspire new forms of conflict and resistance. Preq: English 125 and one 100-level Black Studies Course, or permission of the department. Coreq: English 125 and one 1-level Black Studies Course, or permission of the department.

BLST323 (Liberal Arts) Mass Media, the Internet, and Black Communities 3 hrs. 3 crs. Critical examination of the role mass media, including the internet, plays in the African American community, focusing on ownership, access and image making. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 323.

BLST325 (Liberal Arts) Historiography in Black Studies 3 hrs. 3 crs. Through review of specific historiographical debates, this course examines major problems in studying and writing about the Black experience, the craft of writing history of the movement. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 325.

BLST331 (Liberal Arts) The Civil Rights Movement in America 3 hrs. 3 crs. An examination of major events, key personalities, and organizations in the history of the movement. Preq: ENG 125 and BLST 101, BLST 102, or HIST 272. Not open to students with credit in AAS 331.

BLST342 (Liberal Arts) Third- World Consciousness in Africa 3 hrs. 3 crs. The political, social, and economic genesis of third-world consciousness in Africa; emphasis on its expression in the African territories of Mozambique, Angola and Guinea- Bissau. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 342.

BLST343 (Liberal Arts) The Contemporary Black Experience in South Africa 3 hrs. 3 crs. The indigenous South African society; the role of Blacks in the development of South Africa; the impact of apartheid on the life of the Blacks in South Africa today. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 343.

BLST345 (Liberal Arts) Black Revolutionary Thought 3 hrs. 3 crs. A critical examination of ideological and revolutionary ideas of leading African- American, Caribbean, and African thinkers: Malcolm X, Frantz Fanon, and Amilcar Cabral. Historical, analytical, and comparative methods will be employed. Preq: ENG 125 and at least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 265.

BLST348 (Liberal Arts) Heritage, Culture, and Memory 3 hrs. 3 crs. An exploration of the political and cultural significance of Cultural Heritage Sites. Through case studies from around the world (with special emphasis on sites in Africa and its Diaspora), students will be led to interrogate the politics of historic preservation, and the complex set of motivations and decisions related to the identification, preservation, exhibition, and interpretation of heritage and culture. Preq: ANTH 101 or BLST 101 Coreq: ANTH 11 or BLST 11 Not open to students with credit in ANTH 348 This course is cross listed with ANTH 348

BLST349 (Liberal Arts) Race, Housing, and Community 3 hrs. 3 crs. This course will explore the historic and persistent struggles of lower and middle class African Americans to attain property and maintain stable communities in the face of discriminatory policies and practices of government, Realtors and majority communities. Additionally, case study evidence will lead students to understand the complex bundle of issues associated with gentrification and displacement, and means of resistance (i.e. community building initiatives) utilized by communities confronted with potential destabilization. Preq: ANTH 101 or BLST 101 Coreq: ANTH 11 or BLST 11 Not open to students with credit in ANTH 349 This course is cross listed with ANTH 349

BLST351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews – individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social and cultural phenomena.

Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social and behavioral science disciplines. Preq: credits in ANTH, BLST, or SOC Coreq: credits in ANTH, BLST, or SOC This course may be offered as a traditional class or a hybrid. This course is cross listed with ANTH 351 and SOC 351

BLST353 (Liberal Arts) Boys to Men: From Black Macho to Black Male Feminist 3 hrs. 3 crs. This course traces the experiences of Black men in an evolving but consistently hostile/indifferent environment. In this course, we will examine Black male views on life, Black love/relationships, Black male creativity and genius, Black male assessments of their position in society, and Black male responses to oppression. In addition, we will explore different theoretical critiques of racism in America and the impact of White Supremacy on Black men. Finally, we will examine the possibilities for a transformative Black masculinity. Preq: sophomore standing Coreq: sophomore standing

BLST354 (Liberal Arts) The Role of Blacks in the American Economy 3 hrs. 3 crs. The contribution of Black Americans to the economic development of the United States. The economics of slavery, expansion of the western frontier, Black labor in northern industries, Blacks and trade unionism, current Black status in labor, business, and management. Preq: At least one course from BLST 202, HIST 272 and 276.

BLST364 (Liberal Arts) Social Movements in the African Diaspora 3 hrs. 3 crs. This course provides students a transnational overview of African peoples' movements of resistance to systems of oppression: maroon communities, slave revolts, the Haitian Revolution, the U.S. Civil War, African and Caribbean independence struggles, black nationalism, the civil rights movement, the divestment campaign against apartheid South Africa, global justice, debt cancellation, affirmative action struggles, neighborhood organizing, and blacks' participation and autonomous contributions to broader coalitions addressing housing, education, and welfare rights. Preq: Writing 301, and at least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 364. THIS IS A WRITING INTENSIVE COURSE

BLST401 (Liberal Arts) Seminar 3 hrs. 3 crs. Selected topics, announced each semester, on contemporary Black Africa, the Caribbean, and Black America. Preq: Junior status and WRIT 301. Not open to students with credit in AAS 401.

BLST490 (Liberal Arts) Directed Study 3 hrs. 3 crs. Independent research in an area within African American Studies of mutual interest to students and a faculty member. A formal, publishable report based on original, guided research on topic is required. Typically one term paper of 30 pages. Preq: WRIT 301 and 6 credits in BLST. Not open to students with credit in AAS 490.

Business

BUS201 (Not Liberal Arts) Computer Applications in Business 4 hrs. 3 crs. Design and implementation of computerized

information systems. Applications include computerized spreadsheets, word processing, graphics, and data base management. Not open to students with credit in AC 201. 2 hours lecture, 2 hours laboratory.

BUS202 (Not Liberal Arts) Introduction to Management Information Systems 3 hrs. 3 crs. Introduction to information systems for business and other non-computer science majors. Basic concepts about the components and the operations of information systems such as computer hardware, software, database management and telecommunications technologies are covered. Also included are: Electronic Commerce, Emerging Technologies, the development of IT systems, the management of IT systems, Decision Support Systems, Expert Systems and Artificial Intelligence. Not open to students with credit in BUS 402.

BUS230 (Not Liberal Arts) Introduction to the Aviation Business 3 hrs. 3 crs. A general survey of the field of aviation business. The course will include a historical overview of the development of aviation and will survey various aspects of the airline industry such as regulation, the organization and management of aviation businesses (particularly airlines), airline marketing, airfreight and modes of competition in the airline and aircraft industry. Preq: ECON 102 or Department permission required.

BUS235 (Not Liberal Arts) Airport Planning and Management 3 hrs. 3 crs. A comprehensive analysis of the planning process and managerial and operations functions pertaining to management of an airport. The course will cover airports in general; airport system planning; site selection, layout and land use; access airport capacity and delay; financial planning and management; airport operations. Preq: ECON 102.

BUS236 (Not Liberal Arts) Air Cargo Management 3 hrs. 3 crs. This course will present the management practices and problems involved in the air cargo industry. The class will discuss the background of the industry, its diversity of services, facilities and the role competition plays in the industry. The course will include a discussion of the International Air Transport Association (IATA), rate and tariff problems, and an overview of dangerous goods regulations. Field trips will be made to such places as an air cargo terminal, and an airfreight forwarder. Preq: ENG 125 and BUS 230 Field trips will be made to such places as an air cargo terminal and an airfreight forwarder.

BUS237 (Not Liberal Arts) Introduction to Emergency Planning and Management 3 hrs. 3 crs. An introduction to context, considerations and procedures in managing emergencies and disasters. The course will focus on the importance of developing and disseminating a disaster plan within the organization, as well as delineating and communicating areas of responsibility for action. The role of the emergency planner in the overall planning function will be considered. Emphasis will be placed on strategies for mitigation of disaster from natural disasters, technological hazards, human errors, sabotage and terrorism. Preq: ECON 101 or 102

BUS240 (Not Liberal Arts) Foundations of Supply Chain Management 3 hrs. 3 crs. This course covers the major issues in

supply chain management, including: definition of a supply chain; role of inventory; advanced production-inventory models; supply contracts; bullwhip effect and information sharing; vendor-managed inventories and other distribution strategies; third-party logistics providers; managing product variety; information technology and supply chain management; international issues and outsourcing. Preq: MATH 115 or MATH 121

BUS250 (Not Liberal Arts) Aeronautics 3 hrs. 3 crs. This course develops factual aeronautical knowledge to establish a foundation for aviation cognitive growth. In furtherance, here the affective component topics will allow the students to learn and appreciate the rationale for federal aviation regulations, safety, the national airspace system, communications, and weather analysis. Pilot responsibilities are within the realm of "skilled-psychomotor" performance where the student is introduced to flight physiology (with respect to vision, hearing, and balance).

BUS281 (Not Liberal Arts) Air Traffic Control 3 hrs. 3 crs. This course introduces the various aspects of the present and future Air Traffic Control systems. Among the topics in the present system include the systems-analysis approach to problems of capacity and safety, surveillance, including the National Airspace System and Automated Radar Terminal Systems, navigation subsystem technology, aircraft guidance and control, communications, collision avoidance systems and sequencing and spacing in terminal areas. Preq: BUS 230 and BUS 250

BUS283 (Not Liberal Arts) Business Law I 3 hrs. 3 crs. Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law. Preq: ECON 102. (Formerly ECON 283)

BUS284 (Not Liberal Arts) Business Law II 3 hrs. 3 crs. Law of business organizations; agencies and partnerships, corporations, negotiable instruments. Preq: BUS 283 or ECON 283. (Formerly ECON 284)

BUS301 (Not Liberal Arts) Management Theory and Practice 3 hrs. 3 crs. Theories of management, design of organizational structure, human factors in management, fundamentals of decision theory, and performance evaluation. Provides basic concepts and tools for managerial decision. Preq: BUS 201, ECON 101, ECON 102 or ECON 103 (Formerly ECON 381)

BUS302 (Not Liberal Arts) Introduction to International Business 3 hrs. 3 crs. Terminology, scope, status and evolving patterns of International Business; survey of managing, marketing and financial implications of comparative economic, social, cultural and political environments and systems. Preq: ECON 101 or ECON 103

BUS303 (Not Liberal Arts) Office Information Systems 3 hrs. 3 crs. This course emphasizes hands-on use of office information systems. Included in the course are word processing systems, spreadsheets, database management systems, presentation systems, organizers, local area networks and the Internet. Preq: BUS 201.

BUS311 (Not Liberal Arts) Human Resource Management 3 hrs. 3 crs. The objective of this course is to provide each student with an overview of human resource management as a profession and as a contributor to organizational objectives. The course will examine various principles and practices of human resource management and will allow students to develop competencies in areas of recruitment and selection, training and development, performance management, legal and regulatory compliance, labor/management relations, benefits administration, health, safety and security, employee rights and discipline and strategic human resource management. Preq: BUS 301. (Formerly ECON 281)

BUS312 (Not Liberal Arts) Staff Supervision and Employee Relations 3 hrs. 3 crs. Practical application of current management theory from the perspective of the supervisor. Techniques of employee relations directed at improving morale and motivation and increasing efficiency. Preq: BUS 301. Not offered on a regular basis. Availability to be determined by the department.

BUS315 (Not Liberal Arts) Health Care Management 3 hrs. 3 crs. Application of management theories to the health care industry using numerous examples, issues, and cases from the health care industry. This approach to the subject offers an opportunity for students in health-related careers with a fundamental management orientation. Preq: BUS 301.

BUS321 (Not Liberal Arts) Principles of Finance 3 hrs. 3 crs. This course provides an introduction to financial aspects of modern firms. It emphasizes valuation of cash flows, introduction to capital structure, procurement of funds, basics of asset management, problems of capitalization and the role of security markets. Preq: ACC 102 or ACC 103 and BUS 201, and BUS 283 and ECON 101 or ECON 103 and ECON 220

BUS322 (Not Liberal Arts) Investment and Security Analysis 3 hrs. 3 crs. Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques. Preq: BUS 321 (Formerly ECON 382) Not offered on a regular basis. Availability to be determined by the department.

BUS324 (Not Liberal Arts) International Finance 3 hrs. 3 crs. Foundation of international financial management in multinational corporations, environment of international management, the basic functions of various financial markets and instruments, the theory of exchange rate determination, foreign direct investment Preq: BUS 321

BUS325 (Not Liberal Arts) Real Estate Finance 3 hrs. 3 crs. The course will provide the students with an introduction to the four areas of Mortgage Banking. The four areas are: Originations, Underwriting, Secondary Markets and Appraisals. The course will cover the function and purpose of each area, how the areas interact, and how practicing professionals operate in each of these areas. Preq: BUS 321

BUS326 (Not Liberal Arts) Computer Applications in Mortgage Finance 3 hrs. 3 crs. Covers the latest technology currently being used in the mortgage industry. This course will provide students with the capabilities and knowledge needed to

incorporate technology into all aspects of the mortgage loan cycle. Preq: BUS 325 and knowledge of word processing and spreadsheet applications. Not open to students with credit in BUS 201. 3 hours lecture.

BUS328 (Not Liberal Arts) Fair Housing and Fair Lending Laws 3 hrs. 3 crs. This course will examine the origins of regulatory and compliance laws which were established to address discriminatory practices in housing and lending. This course will give the student a policy perspective on legislation as it relates to mortgage lending. Preq: BUS 325 and knowledge of word processing and spreadsheet applications. 3 hours lecture.

BUS329 (Not Liberal Arts) Corporate Finance 3 hrs. 3 crs. This course focuses on financial decision making in the modern corporation with emphasis on capital investments/budgeting, capital structure, dividends and payout policies, short-term finance financial planning and international corporate finance. Preq: BUS 321

BUS330 (Not Liberal Arts) Aviation Operations 3 hrs. 3 crs. During this course, the student will gain an understanding of the conduct of professional flight operations, including those of air carriers, corporations, FBOs, and the military. The student will become familiar with aircraft types, air routes, personnel, Preq: ECON 102 or Department permission required.

BUS335 (Not Liberal Arts) Case Studies in Aviation Financial Management 3 hrs. 3 crs. This is an introductory course to public budgeting, accounting and financial analysis for aviation managers in governments, public authorities, and for managers in the airline industry. It surveys a broad range of key financial and performance issues of government and public authorities from a financial management viewpoint. Key techniques in the aviation industry will be introduced and discussed including public and private budget process, economic and financial forecasting models, financial and cost accounting in private and public settings, cost-benefit analysis, capital budgeting, government accountability and performance measures. Preq: BUS 230 and BUS 321

BUS348 (Not Liberal Arts) Production/Operations Management 3 hrs. 3 crs. Planning, control, and evaluation of production and operations functions in any type of firm; management decision making, scheduling, inventory control, and productivity analysis. Preq: ACC 102 or ACC 103 and BUS 201, and ECON 101 or ECON 103 and ECON 220

BUS349 (Not Liberal Arts) Entrepreneurship Basics 3 hrs. 3 crs. Small business firms are an integral part of the business scene. Small firms are active in major areas of business such as manufacturing, mining, wholesaling, retailing services, and finance. The course will deal with, small business sales, finance, personnel, and current management practices. Preq: ACC 101, BUS 301 Coreq: BUS 31, MKT 341

BUS355 (Not Liberal Arts) Futures and Options 3 hrs. 3 crs. This course provides a detailed analysis of options, futures, and other financial instruments, and emphasizes the valuation and uses of pricing models, and trading and hedging strategies. Students are first introduced to the basic techniques of futures and forwards,

including pricing, hedging, and other applications. Next, these techniques are applied through an introduction of interest rates swaps. The rest of the course focuses on options. Option pricing theory and trading strategies are covered, and the applications to stock indices and other commodities are also introduced Preq: BUS 322

BUS357 (Not Liberal Arts) Family Business 3 hrs. 3 crs. This course will provide an overview of the special issues of family enterprises, including succession, governance, strategy, family dynamics, culture, philanthropy, and family offices. It will also benefit those from business-owning families as well as their advisors. Will also include case discussions, guest speakers, field or research assignments and presentations on new ideas in family enterprise. Preq: BUS 301, MKT 341, ACC 101 or permission from the department.

BUS360 (Not Liberal Arts) Airport and Aviation Security 3 hrs. 3 crs. Analysis of threats, security and asset protection within the aviation industry, emphasizing a political and public policy perspective, impact of international terrorism, hijacking, sabotage, bombings, theft, smuggling, and terminal invasion are examined. Airport, airline, and terminal security programs are developed and presented in accordance with applicable Transportation Security Administration (TSA), department of Homeland security (DHS), federal Aviation Administration (FAA) and International Civil aviation Organization (ICAO) procedures and agreements. Preq: BUS 230 and BUS 250

BUS361 (Not Liberal Arts) Management of Compensation 3 hrs. 3 crs. Principles and techniques of wage and salary administration including job analysis, job evaluation, merit rating and wage incentives; study of compensation policies, theories and practices. Preq: BUS 311.

BUS362 (Not Liberal Arts) Commercial Aviation Safety 3 hrs. 3 crs. This is a study of the essential skills and methodology needed to plan and manage an effective commercial aviation safety program. Emphasis will be placed on understanding the principles of risk management, emergency response planning, hazard and incident reporting, safety investigations, and safety performance monitoring. The principle tools and techniques used here have been successfully implemented by the FAA and ICAO in their respective Safety Management Systems (SMS). Preq: BUS 230 and BUS 250

BUS365 (Not Liberal Arts) Materials and Inventory/Production Control 3 hrs. 3 crs. This course covers the major issues in materials and inventory/production management, including: identifying different types of inventory, study different inventory policies and evaluating their expected cost. On the production side this course studies different methods of forecasting and job shop and flow shop scheduling. Different production philosophies (pull and push) are compared in detail. Finally, basics revenue management for limited capacity products is introduced with an emphasis on airline ticket pricing. Preq: MATH 115 or MATH 121

BUS366 (Not Liberal Arts) Transportation Management 3 hrs. 3 crs. This course focuses on skills development in and knowledge of

transportation management in the following areas: Issues: Issues are essential points associated with the subject that need to be discussed, understood and analyzed, and resolved; Players (i.e., companies, firms, associations, regulatory authorities) and their roles.; Essential transportation management processes.; Shipment and information flows; Infrastructure and equipment. It enables students to develop skills in and knowledge of transportation management in the following areas: essential transportation management processes, shipment and information flows, and infrastructure and equipment. Preq: BUS 240

BUS367 (Not Liberal Arts) Logistics Management 3 hrs. 3 crs. This course is designed to give students the knowledge and experience of strategic logistics management. Attention is given to such issues as transportation management, warehouse and facility location management, inventory management, and supply-chain strategies. The course encompasses both the qualitative aspect and the quantitative aspect of logistics management. Preq: BUS 240

BUS368 (Not Liberal Arts) E-Business Technology 3 hrs. 3 crs. Effective corporate E-Business strategies demand an in-depth understanding of the various technology solutions that enable electronic business. The course will examine how emerging trends—in social media, telecommunications, search engines, security, portals, websites and user interface design, electronic payment systems, e-publishing, digital search features, mobile commerce, and pervasive computing—impact industry, corporate strategy, and competitive dynamics, and create organizational efficiencies. Specific topics covered include: Web 2.0/Social Media, Service Oriented Architecture, Cloud Computing, and Open Source Software. Preq: BUS 240

BUS369 (Not Liberal Arts) International Supply Chain Management 3 hrs. 3 crs. This course entails a comprehensive study of the concepts, processes, and strategies used in the development and management of global supply chains. Supply-chain management (SCM) is a systems approach to managing the entire flow of information, materials, and services from raw material suppliers through factories and warehouses to the final end-customer. Specific topics include global supply chain management, procurement, electronic commerce, information technologies, and logistics activities. SCM represents a philosophy of doing business that stresses processes and integration. This course will be taught through the use of textbook materials, outside readings, and case analysis. Preq: BUS 240, BUS 366, BUS 367

BUS370 (Not Liberal Arts) Labor Relations & Collective Bargaining 3 hrs. 3 crs. This course is designed to provide an overview of the institutionalized setting of "labor relations" as it exists today. The course will cover topics such as union/management relationships, evolution of labor/management relationships, legal influences, unions and management, negotiating the labor agreement, economic issues, administrative issues, resolving negotiation disputes, contract administration, labor and employment arbitration, employee discipline, labor relations in the public sector and in multinational corporation and in other countries. Preq: BUS 301

BUS371 (Not Liberal Arts) Supply Chain Modeling 3 hrs. 3 crs. This course is designed to familiarize the student with (1) models of the strategic economic and service tradeoffs involved in supply chain and logistics management, (2) the data and parametric requirements of contemporary strategic supply chain models, and (3) the application of leading software packages to real world modeling problems and issues that arise in the strategic management of logistics networks and supply chains. Issues such as location of facilities, assignment of production and distribution missions to facilities, identification of sourcing relationships amongst facilities, and identification of cost and customer service consequences of alternative supply chain designs are addressed through the application of commercial decision support software packages. This "hands on" course is designed to prepare students for high-level supply chain and analyses and consulting work. Preq: BUS 240 and BUS 369

BUS372 (Not Liberal Arts) Strategic Cost Management 3 hrs. 3 crs. This course extends the perspective of cost management/analysis from a primary focus on tactical short-run/micro concerns to an emphasis on strategic long-run/macro issues. The linkage between cost management/analysis and strategy is facilitated by utilizing three powerful strategic management tools: value chain analysis, strategic positioning analysis, and cost driver analysis. Strategic cost management (SCM) exists to support decision-makers as they develop, communicate, implement, evaluate and modify organizational strategy. Preq: BUS 240 & BUS 365

BUS373 (Not Liberal Arts) Procurement Management 3 hrs. 3 crs. This course provides general and specific purchasing information that will serve to strengthen the student's ability to participate in today's global purchasing environment. Topics include procurement requests, solicitation and evaluation of proposals, supplier analysis, contract execution, implementation and administration, personnel issues, materials flow, inventory management, value analysis, value engineering, logistics management, material requirements planning, forecasting strategies, strategic planning, external and internal relationships, computerization of purchasing and materials, and legal and environmental issues affecting purchasing. Preq: BUS 240 and BUS 369

BUS374 (Not Liberal Arts) International Logistics and Transportation 3 hrs. 3 crs. Logistics and transportation activities of multinational firms with emphasis on international logistics, transportation, customer service, inventory control, facility location, global sourcing, customs documentation, and the role of government in importing and exporting. Attention given to current events and their effect on the marketing and logistics activities of U.S.-based organizations. Preq: BUS 240 & BUS 369

BUS392 (Not Liberal Arts) Aviation Internship in the Private Sector TBA hrs. 3 crs. Supervised field experience in a corporate or other private sector setting in the aviation sector under the guidance of a faculty advisor in Business. Preq: BUS 230, BUS 330 and permission of Department required Not open to students with credit in POL 392. Hours to be arranged

BUS402 (Not Liberal Arts) Management Information Systems 3 hrs. 3 crs. Design, analysis and evaluation of management information systems; techniques of gathering, organizing, controlling, disseminating and utilizing information in organizations; the organization viewed as an information network. Preq: MATH 115 or MATH 121 OR MATH 184. CS 291 Coreq: BUS 31

BUS410 (Not Liberal Arts) Ethics Issues in Aviation 3 hrs. 3 crs. Ethics issues in Aviation focuses on current concerns and trends, to reflect the changes that have occurred in this deregulated era, with a focus on major themes in civil aviation ethics, theoretical frameworks, employee responsibility, and diversity in aviation, ground issues regarding airports, air traffic control, security, and environmental issues. Preq: BUS 230 and BUS 250. Junior Status Required.

BUS414 (Not Liberal Arts) Airport Planning and Management 3 hrs. 3 crs. This course will provide the students with an understanding of the major elements in the process of airport planning and management from a system perspective. The course will cover such topics as airport financing and privatization, site selection and environment impact, airport capacity and delays, terminal plan and design, ground access plan, daily operations and security, international difference, multiple-airport system and airport's relationship with airlines. Preq: BUS 335, BUS 360, and BUS 362

BUS420 (Not Liberal Arts) Corporate and Business Aviation 3 hrs. 3 crs. This course provides an advance view with respect to the operation of a corporate flight department. Students will research topics that include aircraft and equipment evaluation, maintenance, flight operations, administration, and fiscal considerations. In furtherance, the student will be introduced to the concept value of management mobility. The course culminates in the construction of a corporate and business aviation procedures and policy handbook. Preq: BUS 335, BUS 360, and BUS 362

BUS425 (Not Liberal Arts) Airline Management 3 hrs. 3 crs. This is a study of the essential skills and methodology needed to plan and manage airline. Emphasis will be placed on understanding airline organizations, airline regulations, airline routing, airline costs and revenue aircraft structure, operations and marketing aspects, low cost airline management. Also the course would cover the impact of alliance and consolidation, the e-commerce revolution and sustainable airline development. Preq: BUS 360, BUS 362 and BUS 335

BUS426 (Not Liberal Arts) Lending Programs for Affordable Housing 3 hrs. 3 crs. Study of specialized programs that provide financing opportunities to low and moderate-income households. The course includes an in-depth treatment of specific techniques used to facilitate homeownership and related sources of funds, types of mortgages and various community lending products, non-traditional underwriting guidelines and homebuyer education and counseling. Preq: BUS 325 and BUS 328. 3 hours lecture.

BUS430 (Not Liberal Arts) Ethics, Governance & Accountability 3 hrs. 3 crs. This course deals with the relationships

of business, government, and society from the perspective of the manager. Timely and relevant topics are treated, including the historical development of the role of business in society, the changing domestic and international environment within which businesses must be managed, the power, legitimacy, and governance of business organizations, values, ethics, and ideology, social issues, corporate social policies, governmental regulation of business, and societal discrimination, and employee health and safety. Preq: BUS 301, BUS 321, BUS 348, MKT 341 and Junior status required Junior status required.

BUS475 (Not Liberal Arts) Case Studies in Finance 3 hrs. 3 crs. This course provides a comprehensive overview of financial decisions, tool and techniques and their impact on the value of the firm using case study method. It includes ethics in finance, financial analysis and forecasting, estimating cost of capital, capital budgeting and resource allocation, management of the firm's equity by dividends, share repurchases, initial offering, management of corporate capital structure, analysis of financial tactics and valuation of enterprises for acquisition and buyouts. Preq: BUS 322, BUS 329

BUS481 (Not Liberal Arts) Strategic Management 3 hrs. 3 crs. Capstone course in Business Administration; case method technique designed to integrate the materials in Business Administration program and to improve the managerial skills of the students. Preq: BUS 301, BUS 321, BUS 348, MKT 341 This is a writing intensive course

BUS490 (Not Liberal Arts) Independent Study in Marketing 3 hrs. 3 crs. In-depth investigation of marketing problem of the students choice with faculty approval and guidance. Preq: Departmental permission required

BUS491 (Not Liberal Arts) Independent Study in Management 3 hrs. 3 crs. In-depth investigation of management problem of the students choice with faculty approval and guidance. Preq: Junior status and permission of instructor.

BUS495 (Not Liberal Arts) Aviation Seminar and Internship 3 hrs. 3 crs. This course is designed to help the student assess and develop personal, interpersonal, intellectual, and social skills needed to succeed in an aviation-related work-study program. Aviation internships provide practical learning experiences by offering opportunities to integrate academic theory with 'real world' practice. The student will engage in industry research that explores the relationship between the two, as well as allowing the student to gain and develop professional skills required for career success. Practical applications will emphasize strategies for coping with challenges that are unique to students in an aviation-related degree program with at-work career exercises, aviation demonstrations, aviation field trips as well as government and industry speakers. Preq: BUS 230 and BUS 250. Departmental permission required. Students who have completed POL 392 or BUS 392 cannot enroll in BUS 495

Chemistry

CHEM100 (Not Liberal Arts) Chemical Calculations 1 hrs. 1 crs. Laboratory on applications of arithmetic, algebra and geometry to chemistry problems. Not open to students with a grade of C- or above for CHEM 101. Pass/No Credit.

CHEM101 (Liberal Arts) \$ Chemical Principles I 7 hrs. 5 crs. Introduction to chemical principles and concepts. Topics include: stoichiometry, aqueous reactions, atomic structure and periodicity, bonding, states of matter. Preq: MATH 104 or MATH 120 OR placement by Math department in MATH 121 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM102 (Liberal Arts) \$ Chemical Principles II 7 hrs. 5 crs. A continuation of Chemistry 101. Topics include: thermodynamics, kinetics, equilibrium, buffers, titrations, redox reactions, electrochemistry. Preq: CHEM 101. 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM105 (Liberal Arts) \$ Essentials of College Chemistry 7 hrs. 5 crs. The essential principles and concepts of college chemistry. Topics include: Stoichiometry, gases, liquids, solids, solutions, the equilibrium state, ionic equilibria in solution, redox reactions, atomic and molecular structure and nuclear chemistry. Preq: MATH 104 or MATH 120 or placement by Math Department in MATH 121 Not credited toward fulfillment of the Chemistry, Biology, Physics, Geology, Medical Technology or Environmental Health majors. 3 hours lecture, 4 hours laboratory.

CHEM120 (Liberal Arts) Environmental Chemistry 3 hrs. 3 crs. An introduction to chemically-related environmental problems. Sources of pollution, health and material effects, and economic factors. Air and water pollution, solid waste disposal, pesticides, agricultural chemicals, and food additives. Solutions to environmental problems. Not credited toward fulfillment of Chemistry major requirements. Not offered on a regular basis. Not open to students with credit in CHEM 101. Availability to be determined by the department.

CHEM121 (Liberal Arts) Chemistry in Our Time 3 hrs. 3 crs. Chemical basis of commercial claims in products such as foods, drugs, detergents, fabrics, and other common products. Basic concepts of chemical structure and reactivity will be introduced. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 101. Availability to be determined by the department. Not offered on a regular basis.

CHEM230 (Liberal Arts) Essentials of Organic Chemistry 3 hrs. 3 crs. Properties and reactions of hydrocarbons and compounds containing common functional groups, spectroscopy, Lewis acids and bases, structural theory stereochemistry, carbohydrates, lipids, proteins, and other materials of biological significance. Preq: CHEM 102 or CHEM 105. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 231.

CHEM231 (Liberal Arts) Organic Chemistry I 3 hrs. 3 crs. Introduction to modern concepts of organic chemistry; bonding, reaction theory, spectroscopy, stereochemistry and nomenclature, relationships between structure and reactivity. Preq: CHEM 102.

CHEM232 (Liberal Arts) \$ Techniques of Organic Chemistry I 4 hrs. 2 crs. Survey of currently used methods for isolation, purification, and characterization of organic compounds; application of chromatography, infrared spectroscopy, and distillation to experimental problems. Preq: CHEM 102. Coreq: CHEM 231.

CHEM233 (Liberal Arts) Organic Chemistry II 3 hrs. 3 crs. Continuation of Chemistry 231; functional group reactivities, reaction mechanisms, and biologically significant compounds; emphasis on research methods and synthesis. Preq: CHEM 231.

CHEM234 (Liberal Arts) \$ Techniques of Organic Chemistry II 4 hrs. 2 crs. Continuation of Chemistry 232; organic qualitative analysis, rational synthesis, and independent investigation. Preq: CHEM 232. Coreq: CHEM 233.

CHEM235 (Liberal Arts) \$ Laboratory in Organic Chemistry 4 hrs. 2 crs. Synthesis and purification procedures of organic chemicals including drugs, vitamins, dyes, etc. are stressed. Experiments will include product identification. Coreq: CHEM 23. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 232. 4 hours laboratory.

CHEM237 (Liberal Arts) Toxicology 3 hrs. 3 crs. Introduction to toxicology; drug-related toxic manifestations in animals and humans; asphyxiants; irritants; narcotics and anesthetics; the meaning of LD₅₀; carcinogens, mutagens, and teratogens (carcinogenesis); threshold limit values and maximum allowable concentrations; pulmonary dust diseases; and routes of entry of toxic materials. Preq: CHEM 230 or CHEM 231.

CHEM241 (Liberal Arts) \$ Instrumental Methods of Analysis 5 hrs. 3 crs. Modern chemical analysis: titrations, applied spectroscopy, electroanalytical methods, analytical separations. Use of spreadsheets in data analysis. Preq: CHEM 234 or CHEM 235 Not credited toward fulfillment of Chemistry major requirements. 1 hour lecture, 4 hours laboratory.

CHEM290 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM291 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM292 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM310 (Liberal Arts) Inorganic Chemistry 3 hrs. 3 crs. Modern concepts of atoms, ions and molecules. Emphasis will be

placed on Schrodinger equation solutions, electronic configuration of atoms, modern descriptions of ionic and covalent compounds and transition metal complexes. Preq: CHEM 102. Coreq: CHEM 321 or CHEM 322.

CHEM321 (Liberal Arts) Physical Chemistry I 3 hrs. 3 crs. Classical and molecular investigation of thermodynamics: laws of thermodynamics, thermochemistry, entropy, free energy, chemical equilibria, molecular energies, Boltzmann distribution, and electrochemistry. Preq: CHEM 102, MATH 122, and PHYS 151.

CHEM322 (Liberal Arts) Physical Chemistry II 3 hrs. 3 crs. Introduction to quantum mechanics, chemical bonding, spectroscopy, chemical kinetics, and statistical mechanics. Preq: CHEM 102, MATH 122, and PHYS 151.

CHEM330 (Liberal Arts) Structure and Mechanism in Biochemistry 3 hrs. 3 crs. An introduction to the chemical principles that provide the foundation of our understanding of protein structure and enzyme function. Emphasis is placed on the relationship of basic organic structural concepts to the determination of protein conformation and of standard organic reaction theory to the explanation of the step-by-step mechanisms by which enzymes perform their functions. Biocatalysis is examined from a physical chemical and mechanistic point of view and spectroscopic techniques relevant to the determination of structure and mechanism in biochemical reactions are discussed. Preq: CHEM 233. Not offered on a regular basis. Availability to be determined by the department.

CHEM339 (Liberal Arts) Heterocyclic Chemistry and Drug Chemistry 3 hrs. 3 crs. Deficient heteroaromatics; excessive heteroaromatics; significant ring structures; synthetic methods; novel heterocycles and reactions; brief history of medicinals, folk remedies; biologically active heterocycles; drug metabolism, structure-activity relationships; rational drug design. Preq: CHEM 233. Not offered on a regular basis. Availability to be determined by the department.

CHEM341 (Liberal Arts) \$ Instrumental Analysis I 6 hrs. 3 crs. Modern chemical analysis: titrations, chromatography, mass spectrometry, electroanalytical and bioanalytical methods. Use of spreadsheets in data analysis. Preq: CHEM 233, CHEM 234. Coreq: CHEM 321. 6 hours laboratory.

CHEM342 (Liberal Arts) \$ Instrumental Analysis II 6 hrs. 3 crs. Instrumental techniques with an emphasis on spectroscopy: UV-visible, IR and atomic absorption, NMR, fluorescence. Molecular modeling. Preq: CHEM 233, CHEM 234. Coreq: CHEM 322. 6 hours laboratory.

CHEM401 (Liberal Arts) Independent Study 0 hrs. 1 crs. Individually guided study of an advanced topic in chemistry. Preq: Permission of the instructor. Hours arranged.

CHEM412 (Liberal Arts) Biochemistry 3 hrs. 3 crs. Enzyme systems and their control, intermediary metabolism; transport mechanisms and role in cell function, structure of nucleic acids; protein synthesis. The interrelationship of these processes and effects of disease will be stressed. Preq: BIO 202, CHEM 231 and

CHEM 232 or CHEM 230 and CHEM 235. Not open to students with credit in BIO 412.

CHEM421 (Liberal Arts) \$ Physical-Inorganic Laboratory 6 hrs. 3 crs. Integrated approach to modern experimental techniques in inorganic and physical chemistry: electrochemistry, thermodynamics, kinetics, inorganic synthesis, advanced spectroscopy, advanced molecular modeling. Preq: CHEM 310, CHEM 341, CHEM 342. Coreq: WRIT 32. This is a writing intensive course.

CHEM449 (Liberal Arts) Advanced Topics in Chemistry 1 hrs. 1 crs. Advanced topics in chemistry, such as: structure-activity relationships, statistical thermodynamics, molecular reaction dynamics, polymers, atmospheric chemistry, chemical applications of group theory. Preq: CHEM 310 and CHEM 321. Content will be chosen to reflect the needs and interests of the students.

CHEM450 (Liberal Arts) Advanced Topics in Chemistry 3 hrs. 3 crs. Advanced topics such as: the Woodward-Hoffman rules, structure-activity relationships, kinetics and mechanisms of the reactions of coordination compounds, electron deficient compounds, inorganic compounds of biological significance, chemistry in non-aqueous solvents, acid-base theory, chemical applications of group theory, polymers, statistical thermodynamics. Content will be chosen to reflect the needs and interests of the students. Preq: CHEM 310, CHEM 321. Coreq: CHEM 322.

CHEM485 (Liberal Arts) Special Topics in Chemistry 6 hrs. 3 crs. Intensive study in advanced chemical topics and experimental methods. Preq: CHEM 233, Junior status. 6 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

CHEM490 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study. PASS/FAIL after 6 credits of Independent Study in these Sciences have been completed. A student may register for only one independent study course per semester. Minimum 6 hours per week.

CHEM491 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

CHEM492 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in

Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

CHEM493 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

CHEM460 (Liberal Arts) Biochemistry I 3 hrs. 3 crs. An introduction to the chemical structure and reactivity of major biological molecules: proteins, nucleic acids, carbohydrates and lipids. Topics include: isolation and analytical techniques used in studying biological molecules; protein function, enzyme kinetics and mechanism; thermodynamics of biochemical transformations and major metabolic pathways. Preq: CHEM 233 and BIO 301

CHEM461 (Liberal Arts) Biochemistry II 3 hrs. 3 crs. A second course in a two semester sequence in biochemistry designed to investigate the structure and reactivity of biological molecules. Topics include: intermediary metabolism; the citric acid cycle, β -oxidation, oxidative phosphorylation, and photosynthesis; and nucleic acid metabolism. Preq: CHEM 460

CHEM462 (Liberal Arts) Experiments in Biological Chemistry 6 hrs. 3 crs. An integrated approach to modern experimental techniques in bioorganic and biophysical chemistry. Topics may include protein expression and analysis; spectroscopy; mass spectrometry; sequence analysis; molecular modeling; protein-nucleic acid and protein-small molecule interactions. Preq: CHEM 460; CHEM 341 or Departmental Permission

Chinese

CHIN101 (Liberal Arts) Elementary Chinese I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of the language.

CHIN102 (Liberal Arts) Elementary Chinese II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: CHIN 101

CHIN105 (Liberal Arts) Intermediate Chinese I 3 hrs. 3 crs. This course is an intermediate-level language course for students of Mandarin Chinese. Within the context of Chinese culture and daily life this course will further develop integrated Chinese language skills: listening, speaking, reading and writing; ther Preq: CHIN 102 or placement by department

CHIN106 (Liberal Arts) Intermediate Chinese II 3 hrs. 3 crs. The course will focus on further developing integrated Chinese language skills. Comprehensive grammar will be emphasized, along

with development of reading and writing ability and more extensive oral practice. Students will participate in discussions in Mandarin Chinese on various topics, and learn to write paragraphs on those topics in Chinese. Different aspects of Chinese culture will also be introduced throughout the course.

Communications Technology

CT101 (Not Liberal Arts) Introduction to Video 4 hrs. 3 crs. Fundamentals of single camera video production: shooting, lighting, and editing. Students learn how to run a camera, properly shoot a story, light an interview subject or an area to be shot, wire an interview subject or an area for sound and edit their material with a non-linear editing system. Preq: ENG 125. Coreq: ENG 125. hour lecture, 2 hours laboratory.

CT201 (Not Liberal Arts) Foundations in Communications Technology 3 hrs. 3 crs. The nature, development, functions, and social context of communications technology, including theories of information transmission and the history of print, photographic, sound, motion image, and computer-based media. Preq: ENG 125.

CT205 (Not Liberal Arts) Principles of the Moving Image 3 hrs. 3 crs. Introduction to the fundamental principles of film and television communication with emphasis on analyzing the interaction of the media text with technology to determine how the elements of form and style function dynamically to construct meaning. Preq: CT 201.

CT240 (Not Liberal Arts) Studio Television Production 4 hrs. 3 crs. Techniques in contemporary digital television production including multi-camera techniques, lighting, sound and post-production for studio elements as well as outside segment production. Preq: CT 101. 2 hours lecture, 2 hours laboratory.

CT244 (Not Liberal Arts) Multimedia Sound Production 4 hrs. 3 crs. Introduction to the techniques of sound production for multimedia, covering the physics of sound, recording equipment techniques, multi-track mixing, and editing sound for picture. Using a non-linear digital audio workstation, students will produce soundtracks for various multimedia projects with current audio software. Preq: CT 101. 2 hours lecture, 2 hours laboratory.

CT345 (Not Liberal Arts) Introduction to Motion Graphics 4 hrs. 3 crs. Introduction to the techniques of motion graphics production for television and video: video effects and animation; lighting and shooting of blue screens; and layering of video sequences. Using non-linear editing workstations, students will produce videos using current video and effects software. Preq: CT 101. FA 284 2 hours lecture, 2 hours laboratory.

CT355 (Not Liberal Arts) Video Documentary Production 4 hrs. 3 crs. Fundamentals of video documentary production: pre-production planning, budgeting, scripting, filming, editing, and directing. Students in small groups learn the theory and techniques of using portable digital video cameras, lighting and sound equipment in field work and complete digital editing with titles, voiceover, music, and special effects in a studio setting. A brief

history and role of the documentary is also included. Preq: CT 345. 2 hours lecture; 2 hours laboratory.

CT360 (Not Liberal Arts) Principles of Web Publishing 4 hrs. 3 crs. Fundamental design theories and principles of web publishing. Topics include typography, layout, basic design, tables, frames, layers, digital image editing, adding page, and file formatting. Students will build web pages using current design software. Preq: FA 284. 2 hours lecture, 2 hours laboratory.

CT370 (Not Liberal Arts) Web Programming 3 hrs. 3 crs. Principles and techniques of applications programming for the web. Topics include programming structures, data types, arrays, variables, statements, functions and objects. Also included are how to control overall design, and passing data from client to servers and between clients. Preq: CS 172. CT 201. Coreq: CT 21. The student is expected to create, design and produce well-designed, dynamic and interactive web pages using applications programming technology.

CT380 (Not Liberal Arts) Webcasting 4 hrs. 3 crs. Overview of streaming media solutions, delving into the technologies of compression and delivery. The history of streaming media and the implementation of various multimedia architectures are included. Principles and techniques of setting up and configuring various streaming media servers, and examining their impact on an IT department. Student projects include producing and encoding media and then streaming it over the College's LAN, using current encoding and delivery software. Preq: CT 101, CT 102 2 hours lecture, 2 hours laboratory

CT381 (Not Liberal Arts) Advanced Web Design 4 hrs. 3 crs. Advanced theories and technologies of web design. Emphasizing the need to go beyond simple web page editing, students will study template creation for managing site growth and continuity, build models for database collection of form information, and embed multimedia technologies such as audio, video, and interactivity. They will critique and analyze various types of online content, paying close attention to what makes some web sites more compelling than others. Preq: CT 360. 2 hours lecture, 2 hours laboratory. Students are expected to plan, design, and construct a well thought-out web site.

CT385 (Not Liberal Arts) Multimedia Interface Design 4 hrs. 3 crs. History and study of human-computer interactions and interfaces, focusing on the graphics user interface (GUI), the usability and design process of creating an interface. Preq: CT 345 or CT 370 or CT 380, as required by student's concentration. 2 hours lecture, 2 hours laboratory. Students will build an interface using current design and authoring applications.

CT390 (Not Liberal Arts) Online Communities 3 hrs. 3 crs. Design, evaluation, and analysis of online communities, and their social, legal and educational dimensions. Preq: CT 201.

CT391 (Not Liberal Arts) Telecommunications in Transition 3 hrs. 3 crs. The latest advances, issues and trends in communications technology: the Internet, new media, networks, and other emerging technologies. Concepts and practices of mobile commerce and home automation are included. Preq: CT 201.

CT399 (Not Liberal Arts) Portfolio Design 4 hrs. 1 crs. Students learn to develop a portfolio relevant to their chosen concentration in the Communications Technology Major. Professional statement writing and the fundamentals of analog, digital and web-based portfolios will be covered. Critique of fellow students' portfolio elements is a requirement of the course. Preq: Completion of 30 credits in Major and permission of the department. Coreq: Completion of 3 credits in Major and permission of the department. Seven meetings per semester plus two hours orientation.

CT401 (Not Liberal Arts) Final Project/Senior Seminar 3 hrs. 3 crs. Final project based in communications technology in a collegial and critical environment. Students will write a thesis project proposal as an application to participate in the class. Critique sessions will include outside guests who will provide insight on current trends in media and business. Students will present final projects of professional quality for review and display on the web and in public showcases. Preq: CT 399, WRIT 303, and permission of the department. This is a Writing Intensive course.

CT415 (Not Liberal Arts) Special Projects-Production 4 hrs. 3 crs. A selected topic in multimedia production. This topic varies with each offering Preq: Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.

CT416 (Not Liberal Arts) Special Projects-Production 4 hrs. 3 crs. A selected topic in multimedia production. This topic varies with each offering Preq: Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.

CT417 (Not Liberal Arts) Special Projects-Production 4 hrs. 3 crs. A selected topic in multimedia production. This topic varies with each offering Preq: Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.

CT418 (Not Liberal Arts) Special Projects-Production 4 hrs. 3 crs. A selected topic in multimedia production. This topic varies with each offering Preq: Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.

CT419 (Not Liberal Arts) Special Projects-Production 4 hrs. 3 crs. A selected topic in multimedia production. This topic varies with each offering Preq: Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.

CT490 (Not Liberal Arts) Internship 20 hrs. 3 crs. Application of theory and competencies developed in academic courses to on-the-job settings. Under supervision of both a job-site monitor and a college faculty advisor, the student engages in a defined program at a cooperating communications company, agency, or institution. Preq: CT 399 and permission of the department. 20 hours/week or 300 hours/semester.

CT425 (Not Liberal Arts) Special Topics-Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT426 (Not Liberal Arts) Special Topics-Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT427 (Not Liberal Arts) Special Topics-Seminar 3 hrs. 3 crs.

A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT428 (Not Liberal Arts) Special Topics-Seminar 3 hrs. 3 crs.

A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT429 (Not Liberal Arts) Special Topics-Seminar 3 hrs. 3 crs.

A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT491 (Not Liberal Arts) Communications Technology

Internship 20 hrs. 3 crs. Application of theory and competencies developed in academic courses to on-the-job settings. Under supervision of both a job-site monitor and a college faculty advisor, the student engages in a defined program at a cooperating communications company, agency, or institution. Preq: CT 399 and permission of the department. 20 hours/week or 300 hours/semester.

Computer Science

CS172 (Liberal Arts) Computer Science I 4 hrs. 4 crs.

Introduction to computer science with a strong emphasis on a systematic approach to problem solving; core principles of programming will be introduced and illustrated through examples in a high level programming language such as C++; applications in natural and social sciences, and finance. Preq: MATH 115 or MATH 121 OR MATH 184 Coreq: MATH 115 or MATH 121 or MATH 184. Not open to students with credit in MATH 172. Students are expected to complete several laboratory assignments.

CS261 (Liberal Arts) Data Communications I 4 hrs. 4 crs.

Introduction to principles of data communication: modems, communications, software, controllers, industry protocols, and networks. Preq: MATH 141 or MATH 225, and CS 172. Not open to students with credit in MATH 493.

CS291 (Liberal Arts) Computer Science II 4 hrs. 4 crs.

Data structuring using structured variables, stacks, queues, linked lists, and trees; recursive procedures; applications to sorting and merging. Students are expected to complete several laboratory assignments. Preq: CS 172. Coreq: MATH 141 or MATH 225. Not open to students with credit in MATH 291.

CS292 (Liberal Arts) Introduction to Data Base Management

4 hrs. 4 crs. Introduction to record input/output; relational database design and implementation; the Entity-Relationship model; tables; functional dependencies; normal forms; design criteria techniques; applications. Students are expected to complete several laboratory assignments. Preq: MATH 141 or MATH 225, and CS 172. Not open to students with credit in MATH 292.

CS300 (Liberal Arts) Guided Study of Topics in Computer

Science 1 hrs. 1 crs. Independent study of selected topics in computer science under supervision of departmental faculty. Preq: Departmental permission.

CS301 (Liberal Arts) Guided Study of Topics in Computer

Science 1 hrs. 1 crs. Independent study of selected topics in computer science under supervision of departmental faculty. Preq: Departmental permission.

CS341 (Liberal Arts) Algorithms and Data Structures 4 hrs.

4 crs. Analysis of algorithms, fast sorting, searching, backtracking, linked structures, recursion, priority queues, trees, graph algorithms. Preq: MATH 141 or MATH 225, and CS 291.

CS357 (Liberal Arts) Principles of Programming Languages

4 hrs. 4 crs. Principles of programming language design; implementation of procedural, functional, and logic programming languages including syntax, binding of variables, type coercion and equivalence (including weakly typed languages); scope and extent of variables, parameter passing and environments; formal semantics. Programming projects will use programming languages which illustrate in practice the theoretical foundations Preq: CS 341, MATH 225. 4 hours lecture.

CS361 (Liberal Arts) Data Communications II 4 hrs. 4 crs.

Communication parameters, protocol analysis and support, LAN/WAN structures. Troubleshooting methods, communication interfaces, network security. Printing server setup and management. TCP/IP, SLIP/PPP Connections. Dial-up Networks. These topics will be supported by a state-of-the-art computer laboratory where students can learn to setup and configure a LAN that implements these topics. Preq: CS 261. Not open to students with credit in MATH 494.

CS371 (Liberal Arts) Business Programming 4 hrs. 4 crs.

Concepts and methods of object oriented program development with Visual Basic as applied to modern business applications. Topics include procedures, functions, forms, ActiveX controls, files, graphical data display, Object Linking and Embedding, Dynamic Data Exchange, user interface design, and applications to spread sheet software. Students will be expected to complete several programming assignments Preq: MATH 291 or CS 291 Not open to students with credit in Math 193.

CS377 (Liberal Arts) Artificial Intelligence 3 hrs. 3 crs.

Major ideas and techniques of Artificial Intelligence; knowledge representation, reasoning, and machine learning schemes; issues underlying the design of intelligent computational agents; implementation using the Lisp programming language. Preq: MATH 225 and CS 341.

CS381 (Liberal Arts) Software Development 4 hrs. 4 crs.

Software portability and reuse; overview of a design language such as Ada; object-oriented programming; exceptions handling; generics, packages; tasks and concurrency; applications of data structures and algorithm analysis. Students are expected to complete several laboratory assignments and a software project. Preq: MATH 141 OR MATH 225, and CS 291. Not open to students with credit in MATH 381.

CS382 (Liberal Arts) Software Engineering 3 hrs. 3 crs.

The software life cycle; requirements specification; software process; prototyping; use of case tools; software testing, documentation and management; social and ethical issues; written reports and

oral presentation of software projects. Preq: CS 381. Not open to students with credit in MATH 382.

CS391 (Liberal Arts) Object-Oriented Programming 4 hrs. 4 crs. Introduction to object-oriented programming. Concepts of constructor, destructor, inheritance and polymorphism. Use of Object linking and embedding (OLE). Use of Dynamic Link Library (DLL). Preq: CS 291.

CS392 (Liberal Arts) Database Systems 4 hrs. 4 crs. Entity-Relationship model, relational algebra, relational calculus, SQL, integrity constraints, functional dependencies, normalization of data, storage and file structure, transactions, concurrency control. Preq: CS 341 and CS 225, or CS 341 and CS 292. 4 hours lecture.

CS397 (Liberal Arts) Assembly Language Programming 4 hrs. 4 crs. Computer structure, number systems, registers and addressing systems; data manipulation; related topics; assembly language programming. Preq: the equivalent or permission of instructor. Not open to students with credit in MATH 397. Students are expected to complete several laboratory assignments.

CS400 (Liberal Arts) Independent Study of Selected Topics in Computer Science 2 hrs. 2 crs. Independent study of selected advanced topics in computer science under supervision of departmental faculty. Preq: Departmental permission

CS401 (Liberal Arts) Independent Study of Selected Topics in Computer Science 2 hrs. 2 crs. Independent study of selected advanced topics in computer science under supervision of departmental faculty. Preq: Departmental permission

CS451 (Liberal Arts) Operating Systems 4 hrs. 4 crs. Introduction to the fundamental concepts and practical issues of an operating system. Introduction to topics such as concurrency, program and process, files, critical sections and semaphores, threads, and communications. Preq: CS 397.

CS452 (Liberal Arts) Unix Operating System 3 hrs. 3 crs. An in-depth study of the design and implementation of the UNIX operating system, the data structures of the UNIX kernel and the UNIX file system. Preq: CS 341 and CS 451. 3 hours lecture.

CS457 (Liberal Arts) Introduction to Automata and Computability 4 hrs. 4 crs. Propositional logic, graphs and digraphs, alphabets, languages, deterministic and nondeterministic finite automata, regular expressions, languages acceptors, grammars, Turing machines and computability. Preq: CS 291

CS461 (Liberal Arts) Network Computing 4 hrs. 4 crs. Computing in a network environment. Intranets, the server, TCP/IP, the Internet and World Wide Web (WWW), web publishing, Hypertext Markup Language (HTML), Java. Preq: CS 291.

CS465 (Liberal Arts) Cryptography and Network Security 3 hrs. 3 crs. Ciphers, public and private keys, encryption and decryption, conventional encryption algorithms, modular arithmetic, Fermat and Euler theorems, RSA Algorithm, network security. Preq: CS 291 and MATH 225. 3 hours lecture.

CS471 (Liberal Arts) Windows Programming 4 hrs. 4 crs. User interface designs. Responding to Windows Events. Creating and using DLL (Dynamic Link Library), DDE (Dynamic Data Exchange), OLE (Object Linking and Exchange). OLE Automation, Developing Active X Controls. Microsoft Foundation Class, Database Interfaces (ODBC and SQL programming). Preq: CS 391.

CS485 (Liberal Arts) Computer Architecture 4 hrs. 4 crs. Logical devices and digital circuits, data representation, register transfer, central processor organization, microprogram control and organization. Preq: CS 397. 4 hours lecture.

CS491 (Liberal Arts) Advanced Topics in Computing/Information Systems Management 2 hrs. 2 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS492 (Liberal Arts) Advanced Topics in Computing/Information Systems Management 2 hrs. 2 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS493 (Liberal Arts) Advanced Topics in Computing/Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS494 (Liberal Arts) Advanced Topics in Computing/Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS495 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS496 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS497 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS498 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

CS499 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 3 hrs. 3 crs. Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Preq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.

Cooperative Education

COOP101 (Not Liberal Arts) Co-op Orientation 2 hrs. 1 crs. Introduction to the world of work; types of work environments and personal adjustment to them; scheduling of work related activities; development of career plans; preparation of resumes; job interview skills. Preq: Completion of all compensatory courses, General Education English Requirement, approval of Cooperative Education Committee; plus, for Business Administration and Marketing Majors: ACC 101, MATH 115, and a computer studies course; for Information Systems Management Majors (Computer Studies): ACC 101, MATH 115 and CS 172.

COOP111 (Not Liberal Arts) Work Experience and Seminar I 255 hrs. 3 crs. Seminar associated with entry level work experience in job approved by the Cooperative Education Committee; maintenance of log and journal of work experience, analysis of work and workplace, oral and written presentation assignments, preparation of research paper related to cooperative job, firm, industry, profession, or students career field. Preq: COOP 101, SPCH 101, junior status, permission of Cooperative Education Committee. 225 hours work experience, 2 hours seminar. Prerequisite may be waived by the Assistant Dean for Career Services.

COOP211 (Not Liberal Arts) Work Experience and Seminar II 240 hrs. 3 crs. Seminar associated with work experience in job approved by the Cooperative Education Committee; under faculty guidance, intermediate and advanced students analyze work and workplace and prepare research report on co-op job, firm, industry, profession, or career field. Co-op 311 In this final required seminar of the co-op sequence, special emphasis is given to issues of career choice and career changing strategies. Co-op 411 An elective course in work experience open to students with opportunity to do significant work beyond the required terms. Preq: COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.

COOP311 (Not Liberal Arts) Work Experience and Seminar III 226 hrs. 3 crs. Seminar associated with work experience in job approved by the Cooperative Education Committee; under faculty guidance, intermediate and advanced students analyze work and workplace and prepare research report on co-op job, firm, industry, profession, or career field. Co-op 311 In this final required seminar of the co-op sequence, special emphasis is given to issues of career choice and career changing strategies. Co-op 411 An elective course in work experience open to students with opportunity to do significant work beyond the required terms. Preq: COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.

COOP411 (Not Liberal Arts) Work Experience and Seminar IV 226 hrs. 3 crs. Seminar associated with work experience in job approved by the Cooperative Education Committee; under faculty guidance, intermediate and advanced students analyze work and workplace and prepare research report on co-op job, firm, industry, profession, or career field. Co-op 311 In this final required seminar of the co-op sequence, special emphasis is given to issues of

career choice and career changing strategies. Co-op 411 An elective course in work experience open to students with opportunity to do significant work beyond the required terms. Preq: COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.

Creole

CRE205 (Liberal Arts) Creole Writing and Composition 3 hrs. 3 crs. An intensive study of Creole writing which addresses the evolving needs of Creole stylistics and composition. Assignments will include but not be limited to summary, draft, research paper, etc. Preq: CRE 106.

CRE101 (Liberal Arts) Elementary Creole I 4 hrs. 4 crs. The course covers basic Creole structures through intensive conversation, reading and writing. It is designed for non-native speakers of Creole who wish to get acquainted with the Creole language and the Haitian Culture. It includes situational dialogues and vocabulary, spelling and reading exercises, songs, tales, proverbs, etc.

CRE102 (Liberal Arts) Elementary Creole II 4 hrs. 4 crs. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: CRE 101 or Department permission.

CRE245 (Liberal Arts) Haitian Novel, Folklore, and the Oral Tradition 3 hrs. 3 crs. The importance of storytelling in Creole literature has been seriously debated since the 1980s. This course examines the relationship between tale and novel, through selected writings and recordings. Preq: CRE 106 or Department permission required.

CRE243 (Liberal Arts) Haitian Poetry 3 hrs. 3 crs. This course offers a general overview of the history of Creole poetry in Haiti from 1804 to the present. Particular emphasis will be put on the originality of the stylistic techniques developed by the writers. Preq: CRE 106 or Department permission required.

CRE244 (Liberal Arts) Haitian Theater 3 hrs. 3 crs. This course offers a general overview of the history of Creole theater in Haiti from 1804 to the present. Preq: CRE 106 or Department permission required.

CRE105 (Liberal Arts) Intermediate Creole I 3 hrs. 3 crs. Course in the Haitian Creole Language covering the fundamentals of reading, writing and speaking. Emphasis will be placed on reading and writing. Not open to students with credit in FREN 107 or FREN 207. Not offered on a regular basis. Availability to be determined by the department.

CRE106 (Liberal Arts) Intermediate Creole II 3 hrs. 3 crs. Development of reading and writing proficiency at the intermediate level using revision and editing techniques augmented by selected literary texts. Preq: CRE 105 or permission of instructor.

CRE208 (Liberal Arts) Masterpieces in Haitian Creole Literature 3 hrs. 3 crs. The study and analysis of contemporary Creole literary works (novels, poetry & theater). Preq: CRE 106.

CRE400 (Liberal Arts) Seminar on Creole 3 hrs. 3 crs. A research seminar on a topic in Creole. Preq: CRE 300 or Department permission required. The topic will vary in each offering. May be repeated for credit with the consent of advisor.

CRE362 (Liberal Arts) Themes 3 hrs. 3 crs. Analysis of selected works through the study of specific topics or movements. Preq: CRE 106 or Department permission required.

CRE363 (Liberal Arts) Themes 3 hrs. 3 crs. Analysis of selected works through the study of specific topics or movements. Preq: CRE 106 or Department permission required.

CRE241 (Liberal Arts) Translation I 3 hrs. 3 crs. This course is designed as an introduction to translation as a career; materials in specialized fields will be studied with regard to problems of style and vocabulary which occur in translation. Preq: CRE 106 and ENG 125.

CRE242 (Liberal Arts) Translation II 3 hrs. 3 crs. This course follows Creole 241. It focuses on a wide range of texts, from journal articles to poetry. Preq: CRE 241 or Department permission required.

Cultural Diversity

CLDV101 (Liberal Arts) Understanding Cultural Diversity 4 hrs. 3 crs. Attitudes, knowledge, and skills to foster multicultural understanding necessary to function within the community and workplace; an exploration of the nature of culture and its influence on attitudes and behavior; ethnographic study of New York City's diverse cultural groups; identification of areas for potential intercultural conflict; and the development of skills to deal positively with conflict. Preq: ENG 125 2 hours lecture, 2 hours laboratory.

CLDV201 (Liberal Arts) Cultures and Societies of the World: Africa, Latin America and the Caribbean 3 hrs. 3 crs. Study of the major post WW II demographic, geo-political and societal changes in Africa, Latin America and the Caribbean. An investigation of the cultures and traditions from the pre-discovery and colonization and independence period up to the 1930's. An assessment of contemporary cultural values, beliefs, mores, religion and family structure. The impact of urbanization and industrialization on gender, race and class. An introduction to literary and artistic expressions and contributions with special attention to women writers. Preq: CLDV 101, ENG 125. Coreq: ENG 125.

CLDV202 (Liberal Arts) Cultures and Societies of the World: The Far East and South East Asia 3 hrs. 3 crs. Study of the major post WW II demographic, geo-political and societal changes in China, Japan, Korea and other Southeast Asian nations. Historical and philosophical traditions including Buddhism and Confucianism and the impact of Western philosophy in traditional thought. An assessment of contemporary cultural values, beliefs, mores, religion and family structure. The impact of urbanization and industrialization on gender, race and class. An introduction to literary and artistic expressions and contributions with special

attention to women writers. Preq: CLDV 101, ENG 125. Coreq: ENG 125.

CLDV203 (Liberal Arts) Cultures and Societies of the World: Asia and the Middle East 3 hrs. 3 crs. Study of the major post WW II demographic, geo-political and societal changes in India, Pakistan, Bangladesh and the Middle East. Exploration of the philosophical, historical origins and development of the regions, with emphasis on Hinduism, Islam, Buddhism and other religious traditions. Consideration of contemporary cultural values, beliefs, mores, religions and family structure. The impact of urbanization and industrialization on caste, gender, race and class. An introduction to literary and artistic expressions and contributions with special attention to women writers. Preq: CLDV 101, ENG 125. Coreq: ENG 125.

CLDV210 (Liberal Arts) Western Civilization 3 hrs. 3 crs. The course uses selected texts from the thought and literature of the Biblical, Greco-Roman, Medieval, Renaissance, the Enlightenment, and Modern periods, including accessible writing about science. Every section of the course studies the same representative works of intellectual and artistic achievement. A history provides context and continuity for the primary readings in religion, science, philosophy, and literature. Preq: ENG 125, CLDV 101. This is a Writing Intensive course.

Economics

ECON102 (Not Liberal Arts) Introduction to Microeconomics 3 hrs. 3 crs. Introduction to the principles of economic analysis, policies, and institutions with emphasis on allocation of resources, trade and the distribution of income through the price system.

ECON103 (Liberal Arts) Introduction to Macroeconomics 3 hrs. 3 crs. Introduction to the principles of economic analysis, policies and institutions with emphasis on aggregate economics, including theory of income determination, monetary and fiscal policy and economic growth. Preq: ECON 102 Not open to students with credit in ECON 101.

ECON200 (Liberal Arts) Intermediate Microeconomics 3 hrs. 3 crs. Analysis of market behavior of the household; the market behavior of the firm in perfect competition, monopolistic competition, oligopoly and monopoly; determination of the prices of factors of production; efficiency aspects of competitive pricing; and welfare economics. Preq: ECON 101 or ECON 103

ECON210 (Liberal Arts) Intermediate Macroeconomics 3 hrs. 3 crs. Analysis of the U.S. National Income and product accounts; consumption and investment; classical and Keynesian models of the determination of income, employment and prices; theory of inflation and monetary and fiscal policies for achieving full employment and price stability. Preq: ECON 101 or ECON 103

ECON220 (Liberal Arts) Introduction to Economic Statistics 4 hrs. 3 crs. Presentation and interpretation of statistical data, statistical inference, correlation and regression. Preq: ECON 101 or ECON 103, MATH 115 or MATH 121 or MATH 184 Not open to students with credit in MATH 113, POL 220, PSY 205, PSY 206,

or SOC 220. 2 hours recitation, 2 hours laboratory. Accounting, Business, Marketing and other majors requiring credit in Economic Statistics should take ECON 420 if they have credit in any of the previously listed courses.

ECON310 (Liberal Arts) Public Finance 3 hrs. 3 crs. Principles of government finance, public expenditures, revenues, and indebtedness; special attention to selected tax and budgetary problems. Preq: ECON 101 or ECON 103 Not offered on a regular basis. Availability to be determined by the department.

ECON311 (Liberal Arts) Money and Banking 3 hrs. 3 crs. Principles and history of money and banking; major reference to the experience and problems of the United States. Preq: ECON 101 or ECON 103

ECON331 (Liberal Arts) Economics of Underdeveloped Areas 3 hrs. 3 crs. Analysis of the causes of economic underdevelopment and the alternative strategies of economic development. Preq: ECON 101 or ECON 103 Not offered on a regular basis. Availability to be determined by the department.

ECON333 (Liberal Arts) Urban Economics 3 hrs. 3 crs. Growth of metropolitan areas; location theory; analysis of urban economic base; impact of changing technology and social structure on central cities and suburbs; effects of federal policies. Preq: ECON 101 or ECON 103

ECON340 (Liberal Arts) International Economics 3 hrs. 3 crs. Economic relations among nations and geographic regions, including balance of payment accounts, foreign exchange markets, adjustment mechanisms, tariffs and the foundations of trade policies. Preq: ECON 101 or ECON 103 Not offered on a regular basis. Availability to be determined by the department.

ECON350 (Liberal Arts) Industrial Organization 3 hrs. 3 crs. Structure and operation of American industry including the nature and effects of corporation, output and control, characteristics of products and markets, and price policies; antitrust history and cases. Preq: ECON 102. Not offered on a regular basis. Availability to be determined by the department.

ECON360 (Liberal Arts) Labor Economics 3 hrs. 3 crs. Supply and demand for labor, wage patterns and theories, problem of unemployment and its solutions, and effect of trade unions on wage determinations. Preq: ECON 102.

ECON361 (Liberal Arts) Economics of Trade Unions and Collective Bargaining in the United States 3 hrs. 3 crs. Economic analysis of collective bargaining, strikes, lockouts, right to work laws, feather-bedding, and pensions; evolution of trade unionism and collective bargaining in the United States. Preq: ECON 102.

ECON390 (Liberal Arts) Independent Research 0 hrs. 3 crs. Investigation of a problem, determined by the student in consultation with a member of the Economics staff. Preq: ECON 220. Hours arranged.

ECON420 (Liberal Arts) Advanced Economic Statistics 3 hrs. 3 crs. Advanced analysis of the frequency distribution; central

tendency, dispersion, skewness and kurtosis; small sample theory, multiple correlation and regression; construction and theory of index numbers. Preq: ECON 220 or equivalent.

ECON421 (Liberal Arts) Econometrics 3 hrs. 3 crs. The principles and applications of econometric techniques to economics and business. Preq: ECON 220 Not offered on a regular basis. Availability to be determined by the department.

Education

EDUC268 (Not Liberal Arts) \$ Bilingual and ELL Education 3 hrs. 2 crs. This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching linguistically diverse English Language Learners (ELLs) in the urban school in both bilingual and mainstream settings. This course will have one hour of lecture and two hours of Lab to allow for application of instructional theories. Fieldwork required. Preq: ENG 125

EDUC269 (Not Liberal Arts) Theories of Bilingualism and Bilingual Education in the Urban School 3 hrs. 3 crs. This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching bilingual students in the urban school. Preq: 6cr. Spanish at the 200 level, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. The completion of 15 supervised fieldwork hours in a bilingual program will be required. Sample lessons taught by each student will be videotaped and analyzed.

EDUC271 (Not Liberal Arts) Adolescent Development in Middle and High Schools 4 hrs. 3 crs. In this course, students will study the processes and issues of the growth and development of adolescents, examining possibilities and challenges of cognitive, emotional, social, and physical development in a diverse urban context. Particular attention will be paid to students with special needs in these areas and students who are English Language Learners. A wide range of contextual issues will be explored as students develop an understanding of the complexities and diversities of adolescent development in an urban context. The impact that adolescent development has on learning and behavior will be explored so that the students are prepared to make appropriate instructional decisions. The relation of technology to development issues will be emphasized throughout the course. Preq: Department approval based upon evidence of background in child development. Coreq: Department approval based upon evidence of background in child development. 3 hours lecture, 1 hour fieldwork. Assignments will offer the students opportunities to apply the theories of adolescent development within an urban context so that learning is maximized for all students. The course will require 14 hours of fieldwork with adolescents in an urban environment.

EDUC280 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Child and Adolescent Development for Teachers 3 hrs. 3 crs. This course will explore human development from childhood through adolescence within the context of history,

culture, urbanization and sociopolitical conditions. Special emphasis is on the relationship between development and teaching/learning. Topics covered will include theories of physical, cognitive, and social/emotional development addressing issues such as standardized testing and assessment, special needs designations, play, and health-related factors. This course will carry a liberal arts and science designation. Psychology majors must take Psychology 215. Preq: ENG 125. No credit will be given students who have taken PSY 215. Field Work required: 14 hours

EDUC281 (Not Liberal Arts) Fieldwork in Educational Environments 2 hrs. 1 crs. Introduction to fieldwork in education. Includes supervised field experience in educational environments that focus on the study of childhood and adolescent development as it relates to teaching and learning. Preq: EDUC 280 or PSY 215. Coreq: EDUC 28 or PSY 215. 1 hour recitation, 1 hour field work.

EDUC283 (Not Liberal Arts) \$ Educational Psychology: Effective Teaching & Learning in Diverse and Inclusive Classrooms 3 hrs. 3 crs. This course provides an overview of learning and instructional issues in teaching in inclusive classrooms. Behaviorism, social and cognitive constructivism, and socio-cultural theories will be examined and applied in the context of diverse classrooms. Teacher candidates will engage in critical analysis of these theories and their application to pedagogical practices in urban schools and inclusive classrooms. They will evaluate curriculum designs and methods of instructions and assessment for students with exceptionalities, as well as those who are linguistically and culturally diverse. Students will design alternate pedagogical practices and evaluate learner outcomes. In addition, the role of technology in instruction will also be examined. Students will conduct weekly supervised laboratory exercises. Preq: EDUC 280 or PSY 215. Coreq: EDUC 284 2 lecture hours, 2 laboratory hours. Field work is required.

EDUC284 (Not Liberal Arts) \$ Field Experience in Teaching & Learning 1 hrs. 1 crs. Introduction to fieldwork in Education from grades K through 12. This course includes 28 hours of supervised field experiences in Educational environments that are in partnership with York College, Department of Teacher Education. The course will include observational experiences and encourage students to become facilitators of learning and development by applying knowledge and skills developed in the EDUC 283 course. Preq: EDUC 283 Coreq: EDUC 283 Not open to students with credit in EDUC 281 Fieldwork is required

EDUC301 (Not Liberal Arts) Education of the Mildly Handicapped 3 hrs. 3 crs. Educational and philosophically relevant foundations of Public Law 94-142; legislation and litigation pertaining to the handicapped child; concepts, characteristics and needs of mildly and moderately handicapped children in the regular classroom; assessment, individualized educational programs and support strategies. Preq: EDUC 201. Field work required.

EDUC302 (Not Liberal Arts) Education of the Physically Handicapped 3 hrs. 3 crs. Education of children with physical and multiple handicaps and chronic medical problems. Methods and Materials, instructional designs, curriculum modifications and behavioral techniques. Preq: EDUC 301.

EDUC303 (Not Liberal Arts) Nature and Educational Needs of the Mentally Retarded 3 hrs. 3 crs. Definition, incidence, etiology of mental retardation; characteristics and educational needs of persons who are educable or trainable; educational counseling and training procedures. Preq: EDUC 301. Field trips are required.

EDUC306 (Not Liberal Arts) Education of the Emotionally Handicapped 3 hrs. 3 crs. Screening and diagnostic procedures for identifying children with emotional and behavioral disorders; methods, materials, and educational therapeutic techniques for classroom instruction.. Preq: EDUC 201 or EDUC 310. Field work required.

EDUC312 (Not Liberal Arts) Literacy Instruction and Children's Literature in the Early and Primary Years 4 hrs. 3 crs. This course is designed to familiarize teacher candidates with theory and practice related to how young children develop as emergent and beginning readers. An in-depth study of children's literature and using children's literature is a secondary focus. In addition teacher candidates will be encouraged to explore and expand their personal beliefs about literacy instruction into the pre-kindergarten, kindergarten and primary grade settings. Preq: WRIT 301 or 302 or 303, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 2 hours lecture, 2 hours laboratory.

EDUC314 (Not Liberal Arts) Content Area Literacy Instruction and Children's Literature for Beginning and Independent Readers (Grades 2-6) 3 hrs. 3 crs. This is part 2 of required literacy education courses for teacher candidates. Students will focus on standards-based literacy instruction and children's literature used during the literacy period and in academic content areas - science, mathematics, social studies and the arts throughout the day in grade 2-6 classrooms. Preq: EDUC 312, and formal admission to the teacher education program for teacher education candidates or departmental permission for non-degree students.

EDUC317 (Not Liberal Arts) \$ Curriculum and Methods in Elementary Education: Science 3 hrs. 2 crs. Teacher candidates will explore the teaching of science and relate it to the daily lives and activities of the child. Use of materials and methods that guide children into the world of science including observations, explorations, and experiments is a focus. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 1 hour lecture, 2 hours laboratory. Supervised fieldwork is a component of the course.

EDUC318 (Not Liberal Arts) Curriculum and Methods in Health and Physical Education for the Elementary School 3 hrs. 2 crs. Methods and materials appropriate to plan and implement lessons and units in health and physical education for the elementary school teacher. Classroom management and safety, assessment and evaluation, integration of children with special needs. Learn to teach basic rhythmic and motor activities, sport skills, and health-related fitness concepts. Selection of culturally sensitive and functionally appropriate media and technology. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree

students. Not open to students with credit in EDUC 327. 2 hours lecture, 1 hour recitation. Ten hours of classroom observation under the guidance of a York College faculty member.

EDUC320 (Not Liberal Arts) \$ Literature and Story-Telling for Children and Adolescents 3 hrs. 3 crs. This course will familiarize future teachers with the categories and characteristics of children's books (traditional literature, contemporary realistic fiction, historical fiction, mystery, and science fiction, etc.), the methods and materials for using Preq: ENG 125 or Department permission required.

EDUC323 (Not Liberal Arts) \$ Curriculum and Methods in Elementary Education: Mathematics 3 hrs. 2 crs. Activities in the classroom that help children develop insight into mathematics-both as a study in itself and as a tool for applied use; extensive review of methods and latest curriculum materials together with appropriate supporting research. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 1 hour lecture, 2 hours laboratory. Students will make site visits to area schools.

EDUC329 (Not Liberal Arts) Curriculum and Methods in Teaching Health Education at the Elementary Level 3 hrs. 3 crs. Methods of instruction to conduct health education in the elementary school. Concepts and skills in lesson and unit planning, classroom management, safety, evaluation and grading, and integration of children with special need. Health education concepts and ideas linking choice and behavior to prevention. Sub-disciplines include child growth and development, family life, nutrition and exercise, cancer prevention, decision making, basic safety, and cultural beliefs and practices, and effects on health and well-being. Preq: EDUC 283 and HE 320. Thirty hours field observation in the elementary school supervised by York College faculty members.

EDUC330 (Not Liberal Arts) \$ Curriculum and Methods in Teaching Health Education at the Secondary Level 3 hrs. 3 crs. Methods of instruction to conduct health education in the secondary school. Concepts and skills in lesson and unit planning, classroom management, safety, evaluation and grading, and integration of children with special need. Health education concepts and ideas linking choice and behavior to prevention. Sub-disciplines include child growth and development, family life, nutrition and exercise, cancer prevention, decision making, basic safety, and cultural beliefs and practices, and effects on health and well-being. Preq: EDUC 329. Thirty hours field observation in the elementary school supervised by York College faculty members.

EDUC333 (Not Liberal Arts) \$ Constructing Social Studies Relationships Through the Expressive Arts 3 hrs. 2 crs. In this course teacher candidates will explore the use of the expressive arts inside social studies instruction - the study of geography, culture, economics, and history. Students will apply theoretical principles to practical application by developing integrated social studies curriculum activities that include the expressive arts. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 1 recitation hour, 2 laboratory hours.

EDUC340 (Not Liberal Arts) \$ Literacy Instruction Inside Middle and Secondary Schools 4 hrs. 3 crs. This required literacy education course for secondary education teacher candidates blends theoretical and developmental constructs with practical methods for developing standards-based literacy instructional strategies in content area and vocations classrooms. Emphasis is on building assessment-based strategies for literacy learning to meet the needs of all children. Students will focus on using content-based text, electronic text, and multimedia formats to encourage adolescents to respond to literature, research and process information, study effectively, and build strategies for reading. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 2 hours lecture, 2 hours laboratory.

EDUC341 (Not Liberal Arts) \$ Curriculum and Methods in Physical Education, K-12 4 hrs. 4 crs. Methods of instruction to develop effective physical education programs for elementary school students. Skills in lesson planning with emphasis on unit plans, class management and safety, evaluation and grading, and integration of special need students. T Preq: Formal admission to Teacher Education Program Thirty hours field observation in the elementary school supervised by York College faculty members.

EDUC345 (Not Liberal Arts) Teaching English as a Second Language Through the Content Areas 3 hrs. 2 crs. This course covers theories on second language acquisition; materials to use with second language learners, and methods of teaching English as a Second Language to Spanish speaking children through the content areas. Preq: EDUC 269 and formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.

EDUC351 (Not Liberal Arts) Teaching Reading and Spanish Language Arts in Bilingual Contexts 3 hrs. 3 crs. In this course the theoretical and ideological foundations of teaching and learning the Spanish language in bilingual contexts are presented and analyzed. Included are: curriculum, methods and selection of materials for teaching reading and the language arts at the elementary school level. Preq: EDUC 345, SPAN 209 and SPAN 308 and formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.

EDUC352 (Not Liberal Arts) Instructional Strategies in Middle and High Schools 4 hrs. 3 crs. Building upon their deep and broad academic content knowledge, candidates will learn to plan and implement content-based units and lessons appropriate for students in urban middle and high schools. Candidates will study middle and high school curriculum as defined by national and state standards, learning ways to translate that appropriately for diverse urban classrooms. They will learn research-based best practices for instruction in urban middle and high schools, including the incorporation of instructional technologies. They will explore subject-specific and interdisciplinary approaches to instruction, as

well as reading and writing in the content areas. In their planning, candidates will incorporate their understanding of adolescent development and urban diversity and plan for inclusion of students with special needs and English Language Learners. Preq: EDUC 271 or department permission. Coreq: EDUC 271 or department permission. 3 hours lecture, 1 hour fieldwork. The course will require 14 hours fieldwork in an urban middle or high school, including observation, instructional assistance, and teaching a lesson.

EDUC369 (Not Liberal Arts) \$ Early Language & Literacy (EO & ELL) 3 hrs. 3 crs. This is part 1 of required literacy education courses for teacher candidates. In this course current perspectives and research on language development will be examined as well as how these perspectives are applied to creating language arts curriculum for emergent and beginning readers, both English Only (EO) students and English Language Learners (ELLs). Also to be explored are methods for teaching a balanced literacy program to all early and emergent readers, including linguistically diverse student populations and students with diverse learning needs. Focus in this course include observational, diagnostic and evaluative assessment methods for analyzing a student's strengths and areas of needed growth; methods and principles for developing proficient readers and writers; lesson planning for literacy instruction; meeting the literacy needs of English Only and English Language Learners in grades 1-2 and selecting appropriate literature and instructional materials including use of technological tools and resources. Preq: 125 & Writ 301, 302 OR 303; Requirements for Formal Admission to the Department or, departmental permission for non-degree students. Coreq: 125 & WRIT 31, 32 OR 33: Requirements for Formal Admission to the Department or, departmental permission for non-degree students. Not open to students with credits in EDUC 312

EDUC370 (Not Liberal Arts) \$ Content Literacy 2-6 (EO & ELL) 3 hrs. 3 crs. This is part 2 of required literacy education courses for teacher candidates. It focuses on content area literacy Instruction for Mainstream English Only (EO) and English Language Learners (ELLs), in grades 2-6. In this course, students will focus on standards-based literacy instruction and children's literature used in designing literacy programs for students in grades 2-6 classrooms in academic content areas - science, mathematics, social studies and the arts for both English Only (EO) students and English Language Learners (ELLs). A major focus for this course will be methods for teaching content area literacy skills in grades 2-6 and the use of instructional technology and multicultural resource materials for both English Only students (EOs) and English Language Learners (ELLs). A special focus in this course will include planning for and teaching English as a Second Language through the content areas for English Language Learners. Preq: EDUC 369, and formal admission to Teacher Education Program or, departmental permission for non-degree students Not opened to students with credits in EDUC 314 and EDUC 345 14 Field Hours required

EDUC371 (Not Liberal Arts) Curriculum and Methods in the Secondary School: Spanish 3 hrs. 3 crs. Latest curriculum materials and styles of teaching based on current theories of

learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the need for designing content, methods, and materials to meet individual differences. "Laboratory experiences" in schools and community provide opportunity for practical application of theory. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.

EDUC373 (Not Liberal Arts) \$ Curriculum and Methods in the Secondary School: Mathematics 3 hrs. 3 crs. Latest curriculum materials and styles of teaching based on current theories of learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the need for designing content, methods, and materials to meet individual differences. "Laboratory experiences" in schools and community provide opportunity for practical application of theory. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.

EDUC375 (Not Liberal Arts) \$ Curriculum and Methods in the Secondary Schools: Biology 3 hrs. 3 crs. Latest curriculum materials and styles of teaching based on current theories of learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the need for designing content, methods, and materials to meet individual differences. Laboratory experiences in schools and community provide opportunity for practical application of theory. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.

EDUC377 (Not Liberal Arts) \$ Curriculum and Methods in the Secondary Schools: Chemistry 3 hrs. 3 crs. Latest curriculum materials and styles of teaching based on current theories of learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the need for designing content, methods, and materials to meet individual differences. Laboratory experiences in schools and community provide opportunity for practical application of theory. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.

EDUC378 (Not Liberal Arts) Advanced Socio-Linguistics: Literacy for K-12 English Language Learners 3 hrs. 3 crs. This course focuses on the examination of the theory, research and practices that affect reading and writing for speakers of English as a Second Language. Based on current theory, practices, and researched-based skills and knowledge about instructional strategies, socio-linguistic and literacy pedagogical practices will be examined, explored and developed for K-12 English Language Learners (ELLs). Preq: EDUC 268, EDUC 369 or EDUC 340; or Department Permission required Fieldwork required

EDUC379 (Not Liberal Arts) Teaching Mathematics, Science, and Social Studies to English Language Learners (ELLs) K-12 3 hrs. 3 crs. This course focuses on the examination of the theory, research, and practices that affect math, science and social studies instruction for K-12 English Language Learners (ELLs). It will focus on building teacher background and knowledge of the content needs of ELLs in in the math, science and social studies classroom to

make these content area subjects accessible to ELLs at all grade levels, K-12. It will also focus on the methods and strategies for teaching math, science and social studies to ELLs, material adaptation, assessment accommodations for teaching ELLs in content classrooms, and the implementation of research-based instructional strategies, interventions and assessment practices aligned to support K-12 ELL in content learning Preq: EDUC 268, EDUC 369 or EDUC 340; or Department Permission Required Fieldwork required

EDUC381 (Not Liberal Arts) \$ Curriculum and Methods in the Secondary Schools: Earth Science 3 hrs. 3 crs. Latest curriculum materials and styles of teaching based on current theories of learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the need for designing content, methods, and materials to meet individual differences. Laboratory experiences in schools and community provide opportunity for practical application of theory. Preq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.

EDUC418 (Not Liberal Arts) \$ Supervised Student Teaching, Health Education, Grades K-6 130 hrs. 4 crs. Supervised Student Teaching, Health Education, grades K-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. Coreq: EDUC 34.

EDUC419 (Not Liberal Arts) \$ Supervised Student Teaching, Health Education, Grades 7-12 130 hrs. 4 crs. Supervised Student Teaching, Health Education, grades 7-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. Not open to students with credit in EDUC 495/EDUC 496.

EDUC431 (Not Liberal Arts) \$ Supervised Student Teaching, Grades 1-3 16 hrs. 3 crs. Supervised Student Teaching, grades 1-3, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. Open only to

students officially registered in the Teacher Certification Program. 16 hours/week fieldwork.

EDUC432 (Not Liberal Arts) \$ Supervised Student Teaching, Grades 4-6 16 hrs. 3 crs. Supervised Student Teaching, grades 4-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching Open only to students officially registered in the Teacher Certification Program. 16 hours/week fieldwork.

EDUC440 (Not Liberal Arts) \$ Supervised Student Teaching, Mathematics, Grades 7-9 120 hrs. 4 crs. Supervised Student Teaching, Mathematics, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC441 (Not Liberal Arts) \$ Supervised Student Teaching, Mathematics, Grades 10-12 120 hrs. 4 crs. Supervised Student Teaching, Mathematics, grades 10-12 is guided and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC442 (Not Liberal Arts) \$ Supervised Student Teaching, Biology, Grades 7-9 120 hrs. 4 crs. Supervised Student Teaching, Biology, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC443 (Not Liberal Arts) \$ Supervised Student Teaching, Biology, Grades 10-12 120 hrs. 4 crs. Supervised Student Teaching, Biology, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and

adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC444 (Not Liberal Arts) \$ Supervised Student Teaching, Chemistry, Grades 7-9 120 hrs. 4 crs. Supervised Student Teaching, Chemistry, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC445 (Not Liberal Arts) \$ Supervised Student Teaching, Chemistry, Grades 10-12 120 hrs. 4 crs. Supervised Student Teaching, Chemistry, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC446 (Not Liberal Arts) \$ Supervised Student Teaching, Earth Science, Grades 7-9 120 hrs. 4 crs. Supervised Student Teaching, Earth Science, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC447 (Not Liberal Arts) \$ Supervised Student Teaching, Earth Science, Grades 10-12 120 hrs. 4 crs. Supervised Student Teaching, Earth Science, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC448 (Not Liberal Arts) \$ Supervised Student Teaching, Physical Education, Grades K-6 130 hrs. 4 crs. Supervised Student Teaching, Health Education, grades K-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC449 (Not Liberal Arts) \$ Supervised Student Teaching, Physical Education, Grades 7-12 130 hrs. 4 crs. Supervised Student Teaching, Physical Education, grades 7-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC452 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC453 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC454 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given

extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC455 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC456 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC457 (Not Liberal Arts) \$ Supervised Teaching of Secondary Schools 120 hrs. 4 crs. Guided observation and supervised teaching in neighboring Intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning, teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.

EDUC458 (Not Liberal Arts) \$ Supervised Student Teaching, Spanish, Grades 7-9 120 hrs. 4 crs. Supervised Student Teaching, Spanish, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission

to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC459 (Not Liberal Arts) \$ Supervised Student Teaching, Spanish, Grades 10-12 120 hrs. 4 crs. Supervised Student Teaching, Spanish, grades 10-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Preq: Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC570 (Not Liberal Arts) Advanced Methods in High School Science Instruction 7 hrs. 4 crs. An intensive four week summer program for experienced high school science teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in the specific area and in current teaching methods. The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics. Preq: Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory.

EDUC571 (Not Liberal Arts) Field Activities in Science Education 6 hrs. 2 crs. A follow-up to Education 570 in which students will attend and participate in workshops at the college and their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials. Preq: EDUC 570. 6 hours field work.

EDUC572 (Not Liberal Arts) Advanced Methods in High School Math Instruction 7 hrs. 4 crs. An intensive four week summer program for experienced high school math teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in mathematics and in current teaching methods. Preq: Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory.

EDUC573 (Not Liberal Arts) Field Activities in Math Education 6 hrs. 2 crs. A follow-up to Education 572 in which students will attend and participate in workshops at the college and at their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials. Preq: EDUC 572.

English

ENG125 (Liberal Arts) Introduction to College Writing 4 hrs. 4 crs. Research, reading and writing for college studies. Preq: By placement examination.

ENG200 (Liberal Arts) Understanding Literature 3 hrs. 3 crs. This is a liberal arts course that fulfills York College's General Education requirement in literature. . Preq: ENG 125. This course may be offered in either hybrid or face-to-face format

ENG208 (Liberal Arts) Understanding Drama 3 hrs. 3 crs. An introduction to reading and viewing plays, designed to develop the students interpretive skills and appreciation of the literature of the theatre. Preq: ENG 200.

ENG209 (Liberal Arts) Understanding Poetry 3 hrs. 3 crs. An introduction to the close reading of a variety of poems, designed to develop the students interpretive skills and appreciation of poetry. Preq: ENG 200.

ENG211 (Liberal Arts) Foundations of Western Literature 3 hrs. 3 crs. Selected texts from the biblical, classical, and medieval periods. Preq: ENG 200 Not open to students with credit in ENG 310.

ENG220 (Liberal Arts) The English Tradition I 3 hrs. 3 crs. Major English authors from the Middle Ages through the 18th century. Preq: ENG 200.

ENG230 (Liberal Arts) The English Tradition II 3 hrs. 3 crs. Major British literature of the 19th and 20th centuries. Preq: ENG 200.

ENG240 (Liberal Arts) The American Tradition 3 hrs. 3 crs. Major American literature of the 19th and 20th centuries. Preq: ENG 200.

ENG270 (Liberal Arts) Introduction to English Grammar and Syntax 3 hrs. 3 crs. Analysis of English sentence structure, with focus on parts of speech, grammatical voice and mood, and written discourse. Students will examine real-world texts from a variety of genres, as well as their own writing practices. Preq: ENG 125. Not open to students with credit for ENG 370. This is a Writing Intensive Course. This course may be offered in either online, hybrid, or face-to-face format.

ENG286 (Liberal Arts) Introduction to Creative Writing 3 hrs. 3 crs. The basics of writing imaginative, technically correct short stories and poems. Preq: ENG 125. This is a Writing Intensive course.

ENG298 (Liberal Arts) Special Topics in English 3 hrs. 3 crs. A selected topic in English studies. This course may be repeated for no more than 6 credits if different topics are studied. The topic varies with each offering. Preq: ENG 125. This course may be repeated for no more than 6 credits if different topics are studied. This is a Writing Intensive course

ENG301 (Liberal Arts) The Old Testament 3 hrs. 3 crs. The Old Testament as literature; its cultural relation to biblical times and its impact on the subsequent literature of the Judeo-Christian world. Preq: ENG 200.

ENG302 (Liberal Arts) The New Testament and the Apocrypha 3 hrs. 3 crs. The New Testament and the Apocrypha as literature; their cultural relation to biblical times and their impact on the subsequent literature of the Judeo-Christian world. Preq: ENG 200.

ENG311 (Liberal Arts) Literary Studies 3 hrs. 3 crs. A variety of reading approaches and critical theories applied to the study of

literature. Preq: ENG 200. Not open to students with credit for ENG 210.

ENG318 (Liberal Arts) Shakespeare: The Major Works 3 hrs. 3 crs. Selected reading of the major plays and poems. Preq: ENG 200.

ENG328 (Liberal Arts) Medieval and Renaissance Literature 3 hrs. 3 crs. Prose, poetry and drama of the Middle Ages and the English Renaissance, including such major figures as Chaucer, Shakespeare, Donne and Milton. Preq: ENG 200.

ENG333 (Liberal Arts) Restoration and Eighteenth-Century Literature 3 hrs. 3 crs. Prose, poetry and drama from 1660 through the 18th century, including such major figures as Congreve, Swift, Pope, Fielding and Johnson. Preq: ENG 200.

ENG343 (Liberal Arts) The Romantic Period in England 3 hrs. 3 crs. Literature of the 19th-century English Romantic movement with emphasis on poetry, including such major figures as Coleridge, Wordsworth, Byron, Shelly and Keats. Preq: ENG 200.

ENG344 (Liberal Arts) Victorian Literature 3 hrs. 3 crs. Literature of Victorian England; emphasis on poetry and the novel, including such major figures as Browning, Tennyson, the Brontes, Dickens, Eliot and Hardy. Preq: ENG 200.

ENG345 (Liberal Arts) Twentieth-Century British Literature 3 hrs. 3 crs. Major authors and movements in British Literature of the 20th century. Preq: ENG 200.

ENG350 (Liberal Arts) American Voices and Visions I 3 hrs. 3 crs. Literature of America from the Colonial Period through the Civil War. Preq: ENG 200.

ENG351 (Liberal Arts) American Romanticism 3 hrs. 3 crs. Historical, social and cultural contexts of American literary romanticism from 1820-1865, including such major figures as Emerson, Thoreau, Fuller, Douglass, Poe, Whitman and Melville. Preq: ENG 200.

ENG352 (Liberal Arts) American Voices and Visions II 3 hrs. 3 crs. Literature of America from the Post Civil War Period through World War II. Preq: ENG 200.

ENG353 (Liberal Arts) Nineteenth-Century American Literature 3 hrs. 3 crs. Development of American literature in the 19th Century, focusing on poetry, fiction, autobiography, and essays written by major figures such as Emerson, Douglass, Dickinson, Whitman, Alcott, Jacobs, and Twain. Preq: ENG 200.

ENG355 (Liberal Arts) Twentieth-Century American Literature 3 hrs. 3 crs. Major 20th century American authors and poets, their historical, social and cultural contexts. Preq: ENG 200.

ENG356 (Liberal Arts) Studies in an American Literary Genre or Movement 3 hrs. 3 crs. Study of a literary genre, such as poetry, novel, captivity narrative, slave narrative, autobiography, essay, or short story; or study of a literary movement, such as romanticism, realism, naturalism, modernism, and post-modernism. Preq: ENG 200. The topic varies with each offering. This course can be taken a maximum of two times by any one student.

ENG357 (Liberal Arts) The Literature of the Harlem Renaissance 3 hrs. 3 crs. Poetry, drama, prose fiction, autobiography, oratory, informal essays, and literary and cultural criticism from the Harlem Renaissance. Some appraisal of music, film, and the visual arts. Preq: ENG 200.

ENG364 (Liberal Arts) The Tragic Vision 3 hrs. 3 crs. Selected readings in tragedy from ancients to moderns; emphasis on 20th century. Preq: ENG 200.

ENG365 (Liberal Arts) The Comic Vision 3 hrs. 3 crs. Selected readings in comedy from ancients to moderns; emphasis on 20th century. Preq: ENG 200.

ENG370 (Liberal Arts) Advanced English Grammar and Style 3 hrs. 3 crs. Grammar and punctuation; sentence and discourse patterns; aspects of usage and style illustrated and practiced. Preq: ENG 200.

ENG371 (Liberal Arts) History of the English Language 3 hrs. 3 crs. Development of English over the centuries, as influenced by the history and experiences of English-speaking peoples. Emphasis on word histories and principles of language change. Preq: ENG 200.

ENG373 (Liberal Arts) Writing for Business 3 hrs. 3 crs. This course helps students effectively communicate in business environments. It offers instruction in common genres of business communication: e-mail, letters, memos, presentations, plans, proposals, reports, speeches and resumes. Preq: WRIT 301 or WRIT 302 or WRIT 303. This is a Writing Intensive course.

ENG375 (Liberal Arts) English Sociolinguistics 3 hrs. 3 crs. The major geographical, stylistic, and social dialects of English. Special attention to bilingualism, ethnic varieties (including Black English, Irish English, Puerto Rican English and Yiddish), women's speech and other small-group uses of English, their social status and effects on mobility. Preq: ENG 200.

ENG384 (Liberal Arts) Writing for Electronic Media 3 hrs. 3 crs. Study of writing in such electronic media as weblogs, websites, and other content management systems. Preq: ENG 125.

ENG386 (Liberal Arts) Poetry Workshop 3 hrs. 3 crs. An advanced workshop for poetry students aiming at publication and public readings. Preq: ENG 286.

ENG387 (Liberal Arts) Short Story Workshop 3 hrs. 3 crs. An advanced workshop for short story and novel writers aiming at publication. Preq: ENG 286.

ENG388 (Liberal Arts) Playwriting Workshop 3 hrs. 3 crs. An advanced creating writing workshop designed to give students a basic foundation in the theory and practice of writing for the stage. Preq: ENG 286.

ENG390 (Liberal Arts) Caribbean Literatures in English 3 hrs. 3 crs. Historical and contemporary Caribbean issues - such as colonialism, creolization, gender, and race - explored through literature, written in English, from and about the Caribbean. Preq: ENG 200.

ENG392 (Liberal Arts) African-American Literature 3 hrs. 3 crs. Poetry, prose and drama of African-American writers. Preq: ENG 200.

ENG395 (Liberal Arts) Women Writers 3 hrs. 3 crs. An examination of works by major women writers of the past and important contemporary figures, exploring their literary themes and recent feminist criticism. Preq: ENG 200.

ENG399 (Liberal Arts) Special Topics in English 3 hrs. 3 crs. A selected topic in English studies. Preq: ENG 200, Departmental permission required. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

ENG410 (Liberal Arts) Seminar in English: Special Topics 3 hrs. 3 crs. A special topic in English studies. Preq: WRIT 301, 302, or 303; twenty-one credits in the Major; and departmental permission. Open to English majors who have completed 21 credits in the major. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied. THIS IS A WRITING INTENSIVE COURSE..

ENG430 (Liberal Arts) Seminar in Literature 3 hrs. 3 crs. A special topic in literature. Preq: WRIT 301, 302, or 303; twenty-one credits in the Major; and departmental permission. Open to English majors who have completed 21 credits in the major. This course may be repeated for no more than 6 credits if different topics are studied. THIS IS A WRITING INTENSIVE COURSE

ENG470 (Liberal Arts) Seminar in the English Language 3 hrs. 3 crs. A special topic in the English language. Preq: WRIT 301, 302, or 303; twenty-one credits in the Major; and departmental permission. Open to English majors who have completed 21 credits in the major. The topic varies with each offering. May be repeated for credit with consent of advisor. THIS IS A WRITING INTENSIVE COURSE.

ENG480 (Liberal Arts) Seminar in Writing Journalism 3 hrs. 3 crs. A special topic related to writing Preq: WRIT 301, 302, or 303; twenty-one credits in the Major; and departmental permission. Open to English majors who have completed 21 credits in the major. The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.

ENG490 (Liberal Arts) Senior Research in English 3 hrs. 3 crs. Intensive individually guided advanced research in English or American language and literature. Preq: Instructor permission required Open to Seniors Only

ENG492 (Liberal Arts) Honors Research in English 0 hrs. 3 crs. A two semester sequence open only to students with a GPA of 3.0 or higher in the major. Preq: ENG 209 and ENG 211; WRIT 301; Senior status. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG493 (Liberal Arts) Honors Research in English 0 hrs. 3 crs. A two semester sequence open only to students with a GPA 3.0 or higher in the major. Preq: ENG 209 and ENG 211; WRIT 301; Senior status. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG495 (Liberal Arts) Independent Study in Professional or Creative Writing 0 hrs. 3 crs. Student required to be a regular contributor to or editor of a newspaper or journal published at least bi-monthly and to submit a portfolio of published works or other indication of involvement. Or student required to be working on literary manuscript(s) fiction, poetry, drama, criticism judged by faculty sponsor to be of publishable merit Preq: Permission of instructor and department. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

ENG496 (Liberal Arts) Independent Study in Professional or Creative Writing 0 hrs. 3 crs. Student required to be a regular contributor to or editor of a newspaper or journal published at least bi-monthly and to submit a portfolio of published works or other indication of involvement. Or student required to be working on literary manuscript(s) fiction, poetry, drama, criticism judged by faculty sponsor to be of publishable merit. Preq: Permission of instructor and department. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

ENG498 (Liberal Arts) Independent Study 0 hrs. 3 crs. Completion of a substantial piece of supervised individual research in English studies. Preq: Permission of instructor and department. Hours to be arranged.

ENG499 (Liberal Arts) Independent Study 0 hrs. 3 crs. Completion of a substantial piece of supervised individual research in English studies. Preq: Permission of instructor and department. Hours to be arranged.

English as a Second Language

ESL145 (Liberal Arts) Academic Reading and Writing for Non-Native Speakers I 6 hrs. 2 crs. Students of English as a Second Language who have achieved a high intermediate level of proficiency will acquire the basic rhetorical knowledge and writing skills necessary to meet the writing requirements of their college courses. They will also learn to use information from readings to complete assigned writing tasks.

ESL150 H-WEB (Liberal Arts) Academic Reading and Writing for Non-Native Speakers II. H-WEB 8 hrs. 2 crs. Students of English as a Second Language who have achieved an advanced level of proficiency will acquire the basic knowledge and skills necessary to meet the writing requirements of their college courses. They will also learn to use information from readings to complete assigned writing tasks. Preq: ESL 145 OR Placement. ESL 150 will also prepare students to take the CUNY Skills test.

Environmental Health Science

HPEH110 (Liberal Arts) Science Technology and Environment 3 hrs. 3 crs. Survey of important local, national and world environmental problems facing society; concepts and various biological, chemical and physical factors for a sustainable lifestyle and society emphasizing a multidisciplinary approach with integrated overview for a comprehensive and cohesive understanding of the intricacy and legacy of environmental

problems. Not credited toward fulfillment of Environmental Health Major Requirement.

HPEH140 (Liberal Arts) Environmental Management 4 hrs. 3 crs. The course examines man-made environmental pollution problems and possible alternatives. Topics include: energy, air and water pollution, land-use, environmental assessment, pollution evaluation and social choices.

HPEH340 (Not Liberal Arts) Pollution Control Technology 3 hrs. 3 crs. Introduction of principles and practices of environmental control technology for non-engineering students, emphasis on the control and solution of environmental problems and on the technical, legal and economic factors which dictate these solutions. Preq: PHYS 105 and PHYS 103, HPGC 211, HPGC 212.

HPEH343 (Not Liberal Arts) Environmental Physiology 3 hrs. 3 crs. The effect of environmental stress on human physiology; modes of production of disease through toxic materials in air, water and food; physical variants of temperature, air pressure, electromagnetic energy, and vibration in the production of disease state. Preq: HPGC 211, HPGC 212.

HPEH351 (Not Liberal Arts) \$ Fundamentals of Air Pollution 3 hrs. 3 crs. Sources of air pollution; nature and impact of pollutants; methods of air sampling and monitoring; air quality standards, air pollution meteorology; dispersion equation and modeling of air pollutants in atmosphere; mobile sources; regulatory actions; air pollution abatement and technology; international effort and cooperation on reducing air pollution. Coreq: CHEM 23 or CHEM 231. Not credited toward fulfillment of CHEM 251.

HPEH420 (Not Liberal Arts) \$ Water Quality Analysis and Management 6 hrs. 4 crs. Water quality analysis and evaluation; principles of stream sanitation; factors relating to quality changes in surface waters; water quality changes associated with the various water uses; effects of pollutants on the receiving waters and selected beneficial uses; water quality criteria and standards; principles of water management. Preq: HPEH 340, CHEM 241. hours lecture, 4 laboratory hours. Offered Fall semesters.

HPEH424 (Not Liberal Arts) Food Sanitation 3 hrs. 3 crs. The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding. Preq: HPGC 211, BIO 465, CHEM 230.

HPEH425 (Not Liberal Arts) Disease Vector Control 6 hrs. 4 crs. The public health significance of invertebrates and rodents, life cycles and role in disease transmission; environmental and chemical control of disease vectors, field sampling procedures, and control measures. Preq: HPGC 211, HPGC 212. Field trips to community vector control programs. Not offered on a regular basis. Availability to be determined by the department.

HPEH426 (Not Liberal Arts) Solid Waste Management 3 hrs. 3 crs. Management, Handling storage and disposal of solid waste from the community, industry and institutions; system of collection, compaction, sanitary landfills, incineration; recycling and conversion of solid waste; public health significance of solid waste

management. Preq: HPGC 211, HPGC 212, CHEM 230. Field trips stress the practical application of classroom lectures.

HPEH427 (Not Liberal Arts) Industrial Hygiene 3 hrs. 3 crs. Recognition, evaluation and control of environmental courses and sources of illness in industry; regulatory administrative, and technological elements of industrial health practice will be emphasized. Preq: HPGC 211, HPGC 212, CHEM 237.

HPEH428 (Not Liberal Arts) \$ Water Pollution Biology 3 hrs. 3 crs. The principles and procedures used to detect bacterial pollutants in waters including total coliform and "fecal" coliform; stream biology with emphasis on biology of polluted waters; consideration of bacteria, plankton, bottom organisms, and fish; discussion of toxicity and bioassay methods and biological survey techniques. Preq: HPEH340.

HPEH429 (Not Liberal Arts) Environmental Management 3 hrs. 3 crs. Concepts, scope, and objectives of practicing environmental pollution controls; responsibility of personnel and organization; program planning and evaluation; legal aspects and regulatory agencies; financial and budgeting aspects; contract negotiation; labor and management relationship; emphasis of administrative and managerial skills. Preq: HPGC211, HPGC 212, Senior status.

HPEH430 (Not Liberal Arts) Field Study in Environmental Health Science 40 hrs. 6 crs. Clinical internship with affiliated agencies involved with the field of Environmental Health Sciences; in-depth, supervised training in technical aspects of public, industrial, and hospital health demonstrate the broad scope of environmental health and provides valuable work experience. Preq: Senior status, HPEH 340 and permission of Coordinator of Environmental Health Science.

HPEH498 (Not Liberal Arts) Independent Study 6 hrs. 3 crs. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required. Preq: Permission of Instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Hours arranged. Minimum 6 hours per week.

HPEH499 (Not Liberal Arts) Independent Study 6 hrs. 3 crs. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required. Preq: Permission of Instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Hours arranged. Minimum 6 hours per week.

French

FREN101 (Liberal Arts) Elementary French I 4 hrs. 4 crs. Basic principles of a beginners course designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. Not open to students with credit in FREN 113.

FREN102 (Liberal Arts) Elementary French II 4 hrs. 4 crs. Continuation of the beginners course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: FREN 101 or FREN 113, or two years of secondary school French, or by placement examination. Not open to students with credit in FREN 114.

FREN104 (Liberal Arts) Rapid Review of Basic French 3 hrs. 3 crs. A refresher course of basic French grammar and reading integrating the use of tapes and laboratory materials. Preq: FREN 102. Not credited toward fulfillment of French Major. Not open to students with credit in FREN 105 or above. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied French syntax. Not offered on a regular basis. Availability to be determined by the department.

FREN105 (Liberal Arts) Intermediate French I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; functional review of grammar. Preq: FREN 102 or FREN 114. Offered Spring semesters.

FREN106 (Liberal Arts) Intermediate French II 3 hrs. 3 crs. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literary texts. Preq: FREN 105 or 4 years of secondary school French or by placement exam.

FREN110 (Liberal Arts) Intensive Elementary French for Health Professions 4 hrs. 3 crs. Intensive beginners course in French, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and writing skills, through Preq: Department permission required. 2 hours lecture, 2 hours laboratory. This course may be used to fulfill the General Education Requirement in Foreign Languages only for students in Health Professions programs.

FREN200 (Liberal Arts) Commercial French I 3 hrs. 3 crs. Specialized language used in the French world of commerce; composing and translating business letters, commercial documents and import-export terminology. Preq: FREN 105 or native speaker. Not offered on a regular basis. Availability to be determined by the department.

FREN201 (Liberal Arts) Commercial French II 3 hrs. 3 crs. This course is the continuation of Commercial French I and will focus on the speaking and writing of Business French, as it is used in France, the European Union and the Francophone world. Preq: FREN 200 or Department permission required. Not open to students with credit in FREN 225.

FREN206 (Liberal Arts) Introduction to Haitian Literature 3 hrs. 3 crs. Novel, drama and poetry of the twentieth century in Haiti. Preq: FREN 106 or permission of the department. Not offered on a regular basis. Availability to be determined by the department.

FREN210 (Liberal Arts) Introduction to Literary Theory and Analysis 3 hrs. 3 crs. An introduction through close reading of selected texts to a variety of reading approaches and critical methodology central to the study of literature. Preq: FREN 106.

FREN213 (Liberal Arts) Intermediate Conversation 3 hrs. 3 crs. For non-native speakers wishing to increase fluency and accuracy in French; based on readings related to situations in modern life. Preq: FREN 105. Not offered on a regular basis. Availability to be determined by the department.

FREN217 (Liberal Arts) Advanced Grammar and Composition 3 hrs. 3 crs. An intensive study of the French grammar which addresses the evolving needs of French stylistics and composition. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN218 (Liberal Arts) French Stylistics 3 hrs. 3 crs. This course will provide students with tools to help them analyze literary texts from a stylistic point of view. It is based on close reading of representative modern writers. Preq: FREN 106 or Department permission required.

FREN221 (Liberal Arts) French Literature from the Middle Ages to the Revolution in Translation 3 hrs. 3 crs. Major works of French literature through the Revolutionary period. Preq: Sophomore status or permission of instructor. Not credited toward fulfillment of French major requirements. Not open to students with credit in FREN 325, FREN 326, FREN 330 or FREN 333. Not offered on a regular basis. Availability to be determined by the department.

FREN226 (Liberal Arts) French & Francophone Women's Writing 3 hrs. 3 crs. Introduces students to significant literature written by women of the French and Francophone speaking world. Preq: ENG 125.

FREN231 (Liberal Arts) Survey of French Literature I 3 hrs. 3 crs. This course is a survey of major works of French literature from the Middle Ages through the French Revolution in 1789. It includes epic and lyric poetry, early theater, philosophical essays, prose, novel, and drama. Preq: French 106, or department permission required. Not open to students with credits in French 219.

FREN232 (Liberal Arts) Survey of French Literature II 3 hrs. 3 crs. This course is the second half of the survey of French literature. It examines the evolution of French through novel, poetry and theater from 1789 to the present. Preq: FREN 231 or Department permission required.

FREN233 (Liberal Arts) French for the Tourism and Travel Industries 3 hrs. 3 crs. This course is designed to familiarize students with situations pertaining to travel and tourism in the United States. Preq: FREN 106 or Department permission required.

FREN234 (Liberal Arts) French for the Health Professions 3 hrs. 3 crs. This course intends to prepare our students to handle medical situations in French. It will provide them with basic vocabulary concerning the human body, physical and mental illnesses, medical specialties and medications. Preq: FREN 106 or Department permission required.

FREN235 (Liberal Arts) French Linguistics 3 hrs. 3 crs. This course offers a general overview of the major branches of French linguistics. It focuses on both synchronic and diachronic linguistics. It includes syntax, morphology, phonology, semantics and pragmatics. Preq: FREN 106 or department permission required. 3 hours lecture.

FREN240 (Liberal Arts) Translation I 3 hrs. 3 crs. The first of a two-semester sequence designed as an introduction to translation as a career; materials in specialized fields are studied with regard to problems of style and vocabulary which occur in translation. Preq: FREN 106 or native speaker or permission of department and completion of Instrumental English requirement. Not offered on a regular basis. Availability to be determined by the department.

FREN241 (Liberal Arts) Translation II 3 hrs. 3 crs. Continuation of French 240; more extensive translation of commercial, journalistic, literary and scientific texts. Preq: FREN 240 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

FREN300 (Liberal Arts) The Haitian Novel from 1901 to 1915 3 hrs. 3 crs. Haitian novel from its beginning in 1901 to 1915. Works by such major figures as Marcelin, Hibbert, and Lh_risson will be studied. Preq: FREN 106 or Department permission required.

FREN301 (Liberal Arts) The Haitian Novel after 1915 3 hrs. 3 crs. This course is an introduction to the blossoming of the Haitian novel. It focuses on some major writers in the 20th century, such as Roumain, Alexis, Chauvet, Frank_tienne, Fignol_, etc. Preq: FREN 106 or Department permission required.

FREN302 (Liberal Arts) Haitian Poetry through 1915 3 hrs. 3 crs. Haitian poetry from its beginning to 1915. Works by such major figures as Durand, Vilaire, etc. will be studied. Preq: FREN 106 or Department permission required.

FREN303 (Liberal Arts) Haitian Poetry after 1915 3 hrs. 3 crs. This course explores the growth of the Haitian poetry during the 20th Century. It focuses on works by famous poets from the Movement indig_niste to Haiti litt_raire. Preq: FREN 106 or Department permission required.

FREN304 (Liberal Arts) The Literature of Quebec 3 hrs. 3 crs. This course is an introduction to major Francophone works by 20th-century writers in Qu_bec. Preq: FREN 106 or Department permission required.

FREN305 (Liberal Arts) Francophone Literature of the Maghreb 3 hrs. 3 crs. This course will examine works in French by Tunisian, Algerian and Moroccan authors writing in a postcolonial society about their culture, religion, society and dreams. Preq: FREN 106 or Department permission required.

FREN313 (Liberal Arts) History of the French Language 3 hrs. 3 crs. The evolution of the French language against a background of political, economic and social developments. Preq: FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FREN319 (Liberal Arts) The French Novel through 1789 3 hrs. 3 crs. This course will examine the function and role of the novel in France, beginning with its appearance in the 17th century and its development into a major literary form by the 18th century. Preq: FREN 106 or Department permission required.

FREN320 (Liberal Arts) The Nineteenth Century French Novel 3 hrs. 3 crs. This course will explore chief masterpieces of important novelists like Stendhal, Balzac, Flaubert and Zola. Preq: FREN 106 or Department permission required.

FREN321 (Liberal Arts) The Twentieth Century French Novel 3 hrs. 3 crs. This course will explore the various literary movements and their relationships to the French 20th century novel. Preq: FREN 106 or Department permission required. Not open to students with credit in French 323.

FREN322 (Liberal Arts) Gide, Proust and Duras 3 hrs. 3 crs. This course will explore works by three of the most important figures in 20th-century French literature, who explore the place of the individual in society and bring to light their characters' inner workings. Preq: FREN 106 or Department permission required.

FREN323 (Liberal Arts) The Novel in the Nineteenth Century 3 hrs. 3 crs. Representative works of fiction; emphasis on Stendhal, Balzac, Flaubert and Zola. Preq: FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FREN324 (Liberal Arts) Nineteenth Century Poetry and Theater 3 hrs. 3 crs. Romantic, Parnassian, and Symbolist poets and some dramatists of the 19th century. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN325 (Liberal Arts) The Age of Enlightenment 3 hrs. 3 crs. Theater, novel, and works of the Philosophers (Montesquieu, Voltaire, Diderot, Rousseau) in relation to the political and social thought of the 18th century. Preq: FREN 106. Not open to students with credit in FREN 221. Not offered on a regular basis. Availability to be determined by the department.

FREN327 (Liberal Arts) The Twentieth-Century Novel and Theater I 3 hrs. 3 crs. Major French novelists and dramatists of the 20th century; concentration on works published before 1945. Preq: FREN 106. Not open to students with credit in FREN 222. Not offered on a regular basis. Availability to be determined by the department.

FREN328 (Liberal Arts) The Twentieth-Century Novel and Theater II 3 hrs. 3 crs. Major French novelists and dramatists of the 20th century; concentration on works published after 1945. Preq: FREN 106. Not open to students with credit in FREN 222. Not offered on a regular basis. Availability to be determined by the department.

FREN330 (Liberal Arts) The Age of Classicism 3 hrs. 3 crs. Study of the best known writers of the 17th century; philosophers, moralists, dramatists. Preq: FREN 106. Not open to students with credit in FREN 221. Not offered on a regular basis. Availability to be determined by the department.

FREN333 (Liberal Arts) Masterpieces of the Middle Ages and the Sixteenth Century 3 hrs. 3 crs. Literature of the period; poetry, theater, and prose. Preq: FREN 106. Not open to students with credit in FREN 221. Not offered on a regular basis. Availability to be determined by the department.

FREN334 (Liberal Arts) Literature of the French West Indies 3 hrs. 3 crs. A survey of the best known writers from Haiti, Martinique, Guadeloupe, and French Guyana. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN335 (Liberal Arts) Literature of French Speaking Africa 3 hrs. 3 crs. Best known writers of Senegal, Cameroon, Guinee, Cote d'Ivoire, and Madagascar and other writers emphasizing negritude and revolt. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN338 (Liberal Arts) Love in French Literature 3 hrs. 3 crs. Readings and discussions of masterpieces of various poetry, novels, letters, and plays with love as their main or only theme. Preq: Any French literature course at the 200-level. (except FREN 213). Not offered on a regular basis. Availability to be determined by the department.

FREN340 (Liberal Arts) Advanced Conversation 3 hrs. 3 crs. For non-native speakers wishing to increase fluency and accuracy in French at the advanced level. Based on articles of current interest. Preq: FREN 213 and another 200-level French course. Not offered on a regular basis. Availability to be determined by the department.

FREN341 (Liberal Arts) French Theater through 1789 3 hrs. 3 crs. This course will explore the world of the theater from the Middle Ages through the French Revolution and will show how theatrical representation reflects the conflicts and desires of people from different social classes. Preq: FREN 106 or Department permission required.

FREN342 (Liberal Arts) French Theater after 1789 3 hrs. 3 crs. This course will show theatre's evolution in the post-Revolutionary period through today: plays inspired by everyday life, taking place in the real world, evolving into a modern questioning of human existence. Preq: FREN 106 or Department permission required.

FREN343 (Liberal Arts) French Poetry through 1789 3 hrs. 3 crs. This course will explore poetry's evolution from the time of the Troubadours to the lyric pre-Romantic poets, that is, from French poetry's founding texts to the conventions of the Baroque and Classical periods. Preq: FREN 106 or Department permission required.

FREN344 (Liberal Arts) French Poetry after 1789 3 hrs. 3 crs. This course will examine the evolution of poetry in France, beginning with the Romantic poet's attempts to reunite individuals with the natural world. It will also trace the influence and intermingling of poetry with the 20th-century's major literary move. Preq: FREN 106 or Department permission required.

FREN362 (Liberal Arts) Themes in French Literature 3 hrs. 3 crs. An examination of a significant theme as revealed in French literature. Preq: FREN 106. Topic varies with each offering. Not

offered on a regular basis. Availability to be determined by the department.

FREN363 (Liberal Arts) Themes in French Literature 3 hrs. 3 crs. An examination of a significant theme as revealed in French literature. Preq: FREN 106. Topic varies with each offering. Not offered on a regular basis. Availability to be determined by the department.

FREN381 (Liberal Arts) French Society and Civilization 3 hrs. 3 crs. The culture and civilization of France against an historical background. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN382 (Liberal Arts) Haitian Culture & Civilization 3 hrs. 3 crs. A course comparing Haitian with other French-speaking cultures of the Caribbean; further stress on the Haitian Revolution and the role of Haiti as a Pan-African inspirational phenomenon. Preq: FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FREN400 (Liberal Arts) Senior Seminar 3 hrs. 3 crs. Individual study under the supervision of a member of the French faculty. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

Geography

GEOG112 (Liberal Arts) Geography of the New World 3 hrs. 3 crs. A detailed study of the United States, Canada, Mexico as well as the countries of Central and South America, and the Caribbean region. The interrelationships of the natural resources, climate, agriculture, industry and populations will be emphasized. Not credited toward fulfillment of Natural Science requirement. Not offered on a regular basis. Availability to be determined by the department.

GEOG114 (Liberal Arts) Geography of the Old World 3 hrs. 3 crs. A systematic study of three continents: Europe, Asia and Africa. The interrelationships of the natural resources, climate, agriculture, industry, and populations will be emphasized. Not credited toward fulfillment of Natural Science requirement. Not offered on a regular basis. Availability to be determined by the department.

GEOG271 (Liberal Arts) Principles of Physical and Economic Geography 3 hrs. 3 crs. The influence of physical factors such as weather and climate on man's geographic environment, and the effect of this environment on economic activity and development. Not credited toward fulfillment of Natural Science requirement. Not offered on a regular basis. Availability to be determined by the department.

Geology

GEOL110 (Liberal Arts) \$ Man and the Earth 3 hrs. 3 crs. An introduction to the earth environment and its relationship to human affairs; earth quakes, volcanic activity, land use and abuse, geologic time, rocks and minerals. Not open to students with credit in GEOL

140. A one day field trip is required. This course, when combined with Geology 207 counts as a lecture-laboratory course of 4 credits.

GEOL115 (Liberal Arts) Energy, Resources and the Environment 3 hrs. 3 crs. An introduction to the availability, distribution, recovery and significance of the earth's natural resources. Alternates to our dwindling supply of these resources, with emphasis on the fossil fuels. Environmental impact of the use and disposal of these resources will be analyzed. The interaction of the various disciplines of natural science will be stressed. Not credited toward fulfillment of Geology major requirements.

GEOL120 (Liberal Arts) \$ Our Oceanic Environment 3 hrs. 3 crs. Introduction to the 71 per cent of the earth's surface covered by water. The oceans; our climatic thermostat, a not-so-inexhaustible resource, and their management and preservation. Not credited toward fulfillment of geology major requirements. One day field trip required.

GEOL121 (Liberal Arts) \$ History of Life 3 hrs. 3 crs. A survey of major events in the history of life on earth, from its origin over three billion years ago, to the appearance of man. Patterns of evolution, extinction and replacement of plant and animal groups as responses to ancient environmental changes. Not credited toward fulfillment of geology major requirements. One day field trip required.

GEOL140 (Liberal Arts) \$ Our Earth 4 hrs. 3 crs. This course provides an introduction to the geologic environment and its relationship to human affairs; volcanic activities, earthquakes, landscapes, land use and abuse, the earth through time, recognition of minerals, rocks and fossils, maps and aerial photographs. Not open to student with credit in GEOL 110 or GEOL 207. A museum visit and a one-day trip are required.

GEOL207 (Liberal Arts) \$ Geologic Techniques 2 hrs. 1 crs. Field and laboratory techniques in geology; field identification of common rocks and minerals; introduction to aerial photographs, topographic and geologic maps. Preq: GEOL 110. Coreq: GEOL 11. Not open to students with credit in GEOL 111. 2 hours laboratory. Two field trips required.

GEOL211 (Liberal Arts) \$ Structural Geology 6 hrs. 4 crs. The structural features of stratified and massive rock bodies; mechanics and dynamics of rock deformation; geologic mapping of structural features and the interpretation of such features from existing maps. Preq: GEOL 110 and GEOL 207 or GEOL 140. 2 hours lecture, 4 hours laboratory. Two field trips required.

GEOL217 (Liberal Arts) \$ Earth History with Paleontology 7 hrs. 5 crs. Geologic time scale, the fossil record, and evolution as basis for reconstruction of earth history; cosmopolitan world view but with emphasis on the origin and evolution of North America; concepts of sea-floor spreading and plate tectonics. The Paleontology component will focus on the study, classification, distribution, and evolutionary trends of the common invertebrate fossil groups that inhabited the Earth over the course of history. Laboratory work includes interpretation of geologic sections, identifications of common invertebrate fossils, particularly index fossils, and correlation of stratigraphic units. One field trip is

required. Preq: GEOL 110 or GEOL 140. Coreq: GEOL 11 or GEOL 14. 4.0 lecture, 3.0 lab

GEOL225 (Liberal Arts) \$ Mineralogy 7 hrs. 5 crs. Principles of crystal symmetry and structure, physical and chemical properties of minerals; mineral identification procedures, descriptive mineralogy, and economic importance of mineral deposits. In addition, utilization of commonly used analytical tools Preq: GEOL 110 or GEOL 140 Not open to students with credit in GEOL 222 and GEOL 223. 3 hours lecture, 4 hours laboratory. A field trip may be required.

GEOL282 (Liberal Arts) Weather and Climate 4 hrs. 3 crs. An introduction to the earth's atmosphere, its structure, composition and evolution. Climatology, including the Greenhouse Effect and Global Warming. Atmospheric phenomena, weather, acid rain and the degradation of the ozone layer. Laboratory work includes; collection of data from an on-site weather station and on the internet, computer models of atmospheric processes. Preq: Completion of Natural Science General Education Program requirement. 2 hours lecture, 2 hours laboratory.

GEOL308 (Liberal Arts) Geomorphology 4 hrs. 3 crs. Descriptive and analytical study of the surface features of the earth. Special emphasis given to stream hydraulics, map and aerial photo interpretation of land forms. Preq: GEOL 211. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL323 (Liberal Arts) \$ Field Methods 3 hrs. 1.5 crs. Use of the Brunton Compass, telescopic alidade, and planimeter. Preq: GEOL 211. Not open to students with credit in GEOL 322. Two field trips required.

GEOL332 (Liberal Arts) Optical Mineralogy 3 hrs. 2 crs. Optical properties of minerals. Use of the petrographic microscope. Preparation of rock and mineral thin sections. Identification of common rock forming minerals in thin section and as crushed grains. A field trip is required. Preq: GEOL 225. Coreq: CHEM 11. 1.0 lecture, 2.0 lab.

GEOL334 (Liberal Arts) \$ Petrology 6 hrs. 4 crs. The classification, origin, description and identification of igneous, sedimentary and metamorphic rocks. Students work with hand specimens and outcrops in the field as well as petrographic microscopes and rock thin sections. Preq: GEOL 332. Coreq: GEOL 332. 2.0 lecture, 4.0 lab. Two field trips are required.

GEOL340 (Liberal Arts) \$ Remote Sensing and Air Photo Interpretation 3 hrs. 2 crs. A survey of the various remote sensing techniques; fundamentals of photogrammetry; interpretation of geologic, geographic and economic features as seen as aerial photographs. Preq: GEOL 110 or GEOL 140 and MATH 101. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL341 (Liberal Arts) \$ Ground Water Hydrology 2 hrs. 2 crs. The occurrence and movement of ground water; ground water location, evaluation and development; the influence of mankind on the ground water regime. Preq: GEOL 110 or GEOL 140 and MATH 121. A one day field trip is required.

GEOL342 (Liberal Arts) Rock and Soil Mechanics 3 hrs. 2 crs. Rock and soil mechanics as applied to problems in construction, land development, and slope stability; emphasis on landsliding and surface subsidence problems. Preq: GEOL 211 and Trigonometry. 1 hours lecture, 2 hours laboratory. A one day field trip is required.

GEOL343 (Liberal Arts) Ore Deposits and Ore Evaluation 3 hrs. 2 crs. The origin, form of occurrence, and distribution of the useful metallic minerals of the earth; methods of ore evaluation and beneficiation; preparation of polished ore sections; identification of opaque minerals and study of their textural relationships. Preq: GEOL 225. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL344 (Liberal Arts) Industrial Minerals and Fossil Fuels 3 hrs. 2 crs. Study of the deposits of useful non-metallic minerals, building materials, coal, petroleum and natural gas; environmental problems related to the use and extraction of fossil fuels; nuclear energy materials; identification and testing of industrial minerals and building materials. Preq: GEOL 225. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL346 (Liberal Arts) Laboratory Techniques in Geology 3 hrs. 2 crs. Introduction to instrumental techniques used in mineral and rock analysis and identification; water analysis, optical spectroscopy, atomic absorption spectroscopy, flame photometry, differential thermal analysis, x-ray diffraction powder methods, and radiometric techniques. Geologic evaluation and presentation of data. Preq: GEOL 110 or GEOL 140 and GEOL 225. 1 hours lecture, 2 hours laboratory.

GEOL349 (Liberal Arts) Assessment of Environmental Impact 1 hrs. 1 crs. A systematic approach to the evaluation of the magnitude and importance of the most probable consequences of activities proposed, in a given environmental scenario; emphasis on matrix techniques and desirable formats for the presentation of results. Preq: GEOL 110 or GEOL 140. Not credited toward fulfillment of Science Area Requirements. A one day field trip is required.

GEOL403 (Liberal Arts) Paleocology 4 hrs. 3 crs. Techniques and principles for interpreting fossil communities in terms of age and environment; paleontologic and evolutionary features which distinguished major units in the geological time scale. Preq: GEOL 213 or permission of instructor. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL411 (Liberal Arts) \$ Sedimentation 4 hrs. 3 crs. Dynamics of sedimentation; depositional environments, diagenesis and lithification, sedimentary structure; classification and description of sediments and sedimentary rocks; mechanical, chemical, and microscopic analysis of sediments.. Preq: GEOL 232. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL412 (Liberal Arts) Stratigraphy 4 hrs. 3 crs. Principles of stratigraphic classification, lithofacies and biofacies, faunal zonation, correlation and paleogeography illustrated by stratigraphy of classical geologic regions throughout the entire geologic time scale. Preq: GEOL 211 and GEOL 213 or permission of instructor. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL425 (Liberal Arts) \$ Field Mapping 120 hrs. 4 crs. Three weeks of intensive field mapping in the Folded Appalachian Mountains; measurements of stratigraphic sections and the preparation of geologic maps and sections by means of Brunton Compass, aerial photographs and topographic base maps of the selected areas. Preq: GEOL 323. Not open to students with credit in GEOL 424. 120 hours of field work or laboratory. Expenses are usually \$275.00. A final professional style report is required.

GEOL441 (Liberal Arts) \$ Geochemistry 4 hrs. 3 crs. Survey of geochemical principles and techniques; distribution and migration of the chemical elements within the earth; radio-active and stable isotopes in geology. Preq: GEOL 333. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL496 (Liberal Arts) Independent Study 4 hrs. 2 crs. Independent Study or research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Field trips may be required. A formal report on topic is required. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

GEOL497 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent Study or research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Field trips may be required. A formal report on topic is required. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

GEOL498 (Liberal Arts) Independent Study 4 hrs. 2 crs. Individual research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum 4 hours/week. Hours arranged. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

GEOL499 (Liberal Arts) Independent Study 6 hrs. 3 crs. Individual research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum 6 hours/week. Hours arranged. Field trips may be required. A formal report on topic is required. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study

course in the Natural Sciences Department per semester, intersession or summer session.

and services available to the elderly. Preq: GERO 201. Not open to students with credit in HE 330. 3 hours lecture.

German

GERM101 (Liberal Arts) Elementary German I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.

GERM102 (Liberal Arts) Elementary German II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: GERM 101 or GERM 113, or two years of secondary school German, or by placement examination. Not open to students with credits in GERM 111 or GERM 114. Offered when the demand exists.

GERM105 (Liberal Arts) Intermediate German I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; functional review of grammar. Preq: GERM 102 or GERM 114. Offered when the demand exists.

GERM106 (Liberal Arts) Intermediate German II 3 hrs. 3 crs. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. Preq: GERM 105. Offered when the demand exists.

GERM128 (Liberal Arts) Scientific German I 3 hrs. 3 crs. A concentrated course designed for students who wish to acquire rapidly the skill of reading and translating German, particularly in the fields of the natural and social sciences and technology. Selective survey of grammar and reading of expository texts of limited difficulty. Offered when the demand exists.

GERM129 (Liberal Arts) Scientific German II 3 hrs. 3 crs. Continuation of German 128. Extensive reading and translation of texts of advanced difficulty. Review of special problems in reading expository German. Preq: GERM 128 or placement examination. Offered when the demand exists.

Gerontology

GERO101 (Liberal Arts) Introduction to Gerontology I 3 hrs. 3 crs. Interdisciplinary view of the field of gerontology with emphasis on perspectives offered by anthropology, biology, health and physical education, political science and sociology.

GERO201 (Liberal Arts) Intermediate Gerontology II 3 hrs. 3 crs. Interdisciplinary view of the field of gerontology emphasizing the special contributions of psychology and social work. Particular attention given to the moral and legal issues surrounding long term care, advanced directives, and end of life health care. Preq: GERO 101 or permission of the instructor.

GERO301 (Liberal Arts) Wellness and The Elderly: Programs and Services 3 hrs. 3 crs. Examination of physical, mental, environmental, cultural and spiritual factors which support optimal levels of wellness for the elderly. Students will identify and examine a range of gerontological health promotion, educational programs

Greek

GRK101 (Liberal Arts) Elementary Greek I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of the language.

GRK102 (Liberal Arts) Elementary Greek II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures integrated readings and further practice in conversation. Preq: GRK 101.

Health Education

HE111 (Liberal Arts, NOT Liberal Arts for Accounting Major) Personal Health Issues 3 hrs. 3 crs. Self assessment of personal health behavior in the areas of cardiovascular health, stress, sex and sexuality, substance abuse, nutrition, etc.; information and strategies for the reduction of personal health risk. Not open to students with 6 or more credits in Health Education. Not open to students with credit in HE 110. Not credited towards Health Education major requirements. Not offered on a regular basis. Availability to be determined by the department.

HE200 (Not Liberal Arts) \$ Basic Cardiac Life Support 1 hrs. 1 crs. The theoretical and practical aspects of basic cardiac life support; strategies for prevention of unnecessary death from heart disease including risk-factor modification, recognition of early warning signs, and management of ventilatory and/or cardiac arrest. Certified according to standards from The American Heart Association for Rescuers.

HE201 (Not Liberal Arts) Foundations of Health and Wellness 2 hrs. 2 crs. This course will examine the historical, philosophical, and theoretical principles and foundations of health and wellness. Perspectives on the role of health education in keeping people healthy, and future trends in health promotion will be analyzed. Learning experiences will be designed to assist the student in developing critical thinking and critical reading skills in order to promote and maintain wellness of target populations across the life process. Preq: ENG 125.

HE210 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health Issues for the Physical Educator 2 hrs. 2 crs. This course will familiarize the physical educator with current concepts of health theories and issues in the areas of personal health assessment and behavioral change concepts across the life span.

HE211 (Liberal Arts, NOT Liberal Arts for Accounting Major) Stress and Health 2 hrs. 2 crs. The causes of stress and its relationship to health; self-help techniques for managing stress and tension. Not open to students with credit in HE 491 Seminar: Stress and Health.

HE219 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health Services 3 hrs. 3 crs. Health services in school and community settings; a review of the health delivery system with

implications for health education programs. Not open to students with credit in HE 319 and HE 322.

HE223 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health Behavior 2 hrs. 2 crs. Factors influencing health choices and decision making. Examination of theoretical models for effecting health behavior change. Preq: HE 201 and Completion of Behavioral Science Area Requirements. Coreq: HE 224. Not open to students with credit in HE 323.

HE224 (Not Liberal Arts) Laboratory in Health Behavior 2 hrs. 1 crs. Students participate in the design and application of various models for health behavior change. Preq: Completion of Behavioral Science Area Requirements. Coreq: HE 223. Not open to students with credit in HE 324.

HE241 (Liberal Arts, NOT Liberal Arts for Accounting Major) Sex and Sexuality 3 hrs. 3 crs. Physiology aspects of human sexuality, cross cultural patterns, changing sexual roles, sexuality and the law, premarital behavior, marriage and the family.

HE312 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health and Disease 3 hrs. 3 crs. The nature of communicable and degenerative diseases, with emphasis on agencies, principles and techniques of prevention and control.

HE313 (Liberal Arts, NOT Liberal Arts for Accounting Major) Alcohol and Alcoholism 3 hrs. 3 crs. Physiological, psychological and sociological changes which result from alcohol use and abuse, emphasis on the cause, treatment and prevention of alcoholism and alcohol abuse.

HE314 (Liberal Arts, NOT Liberal Arts for Accounting Major) Nutrition and Health 2 hrs. 2 crs. The relationship of foods and nutrition to personal health and health problems, such as weight control.

HE315 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health and the Consumer 2 hrs. 2 crs. Selection, evaluation and understanding of health information, medical services, health products, and advertising; socio-cultural factors in health protection; the role of government and voluntary agencies in the field of health protection.

HE316 (Liberal Arts, NOT Liberal Arts for Accounting Major) Family Health 3 hrs. 3 crs. The physical, social, and emotional aspects of health in relationship to the life cycle within the family.

HE317 (Not Liberal Arts) First Aid and Safety Education 2 hrs. 2 crs. First aid techniques leading to American Red Cross Certification; prevention and care of athletic injuries; principles and problems of safety in relation to the home, school, and community.

HE321 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health Counseling 3 hrs. 3 crs. Theory and practice of individual and group health counseling as applied to weight control, drug abuse, smoking, birth control, and other personal health problems. Preq: HE 223 and HE 224

HE331 (Liberal Arts, NOT Liberal Arts for Accounting Major) Program Planning 3 hrs. 3 crs. The theoretical design of a health

or gerontological education program; includes needs assessment, target group description, problem analysis, development of appropriate objectives, educational intervention, and the identification of resources. Preq: WRIT 303, HE 219, HE 223, and HE 224 for Community Health majors or GERO 301 for GERO majors. Not open to students with credit in HE 320. This is a writing intensive course.

HE341 (Liberal Arts, NOT Liberal Arts for Accounting Major) HIV/AIDS Public Health Implications 3 hrs. 3 crs. The course will examine the HIV/AIDS epidemic, political and legal issues, clinical interventions, prevention, health education, management and public health implications. Students also will learn about the impact of the epidemic on the individual, family and society. Preq: ENG 125.

HE342 (Liberal Arts, NOT Liberal Arts for Accounting Major) Drug Use and Abuse 3 hrs. 3 crs. Historical, pharmacological, legal, and psycho-social aspects of drug use and abuse; the roles of the individual and society in dealing with current problems. Seminar approach used extensively.

HE363 (Liberal Arts, NOT Liberal Arts for Accounting Major) Measurement and Evaluation in Health and Physical Education 3 hrs. 3 crs. Nature and purpose of measurement in health and physical education; analysis of pertinent test and their use in evaluating performance in these areas. Preq: MATH 111. Not open to students with credit in PE 363.

HE365 (Liberal Arts, NOT Liberal Arts for Accounting Major) Research in Health and Physical Education 3 hrs. 3 crs. This course is designed to introduce the concepts and methodologies in modern scientific inquiry and create the foundation for research in health and physical education. Students will be required to read and interpret scientific research, evaluate profess Preq: MATH 111 and ENG 125 Coreq: MATH 111 and ENG 125 This is a Writing Intensive (WI) course.

HE420 (Liberal Arts, NOT Liberal Arts for Accounting Major) Alcoholism Counseling 3 hrs. 3 crs. The development and application of health counseling skills when working with alcoholics, alcohol abusers and their families in varied educational and therapeutic settings. Preq: HE 313 and HE 321.

HE450 (Liberal Arts, NOT Liberal Arts for Accounting Major) Practicum in Health Education 2 hrs. 2 crs. Development of leadership skills in health education. Coreq: HE 471 or HE 472.

HE452 (Liberal Arts, NOT Liberal Arts for Accounting Major) Cardiovascular Fitness 4 hrs. 3 crs. The physiological and psycho-social aspects of cardiovascular fitness; status of heart disease and preventive programs, exercise stress testing, exercise prescription, and conduct of fitness activities Preq: PE 358 or permission of instructor. Not open to students with credit in PE 452. 2 hours lecture, 2 hours laboratory. Students registering for this course are advised to register for 2 credits of field work in health or physical education. Not offered on a regular basis. Availability to be determined by the department.

HE471 (Liberal Arts, NOT Liberal Arts for Accounting Major) Field Work in Health Education 2 hrs. 1 crs. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. Preq: Written permission by Health Education faculty prior to registration.

HE472 (Not Liberal Arts) Field Work in Health Education 2 hrs. 1 crs. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. Preq: Written permission by Health Education faculty prior to registration.

HE473 (Not Liberal Arts) Field Work in Health Education 4 hrs. 2 crs. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. Preq: HE 320, HE 321 and written permission by Health Education faculty prior to registration.

HE474 (Not Liberal Arts) Field Work in Health Education 4 hrs. 2 crs. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. Preq: HE 320, HE 321 and written permission by Health Education faculty prior to registration.

HE481 (Not Liberal Arts) Organization and Administration of Health Education 3 hrs. 3 crs. Organization, administration, and evaluation of health education programs; problems, policies, practices, methods, and legal aspects of the programs. The coordination of school and community programs with emphasis on the inner city. Preq: HE 331. Not open to students with credit in PE 481 or PE 482.

HE487 (Liberal Arts, NOT Liberal Arts for Accounting Major) Adult Fitness Program 3 hrs. 3 crs. Planning, designing, managing and evaluating adult fitness programs. Preq: Junior status in departmental major.

HE488 (Liberal Arts, NOT Liberal Arts for Accounting Major) Health Promotion in the Workplace 3 hrs. 3 crs. Planning and implementation for Health Promotion guidelines for programs in stress management, weight control, smoking cessation, anti-substance dependency in the workplace; methodologies for evaluation strategies, principles of design of a health promotion center. Preq: HE 331 and permission of department. Not offered on a regular basis. Availability to be determined by the department.

HE489 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 1 hrs. 1 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Topics will vary with each offering and will be announced at registration. Not offered on a regular basis. Availability to be determined by the department.

HE490 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 1 hrs. 1 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Topics will vary with each offering and will be announced at registration. Not offered on a regular basis. Availability to be determined by the department.

HE491 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 2 hrs. 2 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

HE492 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 2 hrs. 2 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

HE493 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 3 hrs. 3 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Topics will vary with each offering and will be announced at registration. Not offered on a regular basis. Availability to be determined by the department.

HE494 (Liberal Arts, NOT Liberal Arts for Accounting Major) Special Seminar in Health Education 3 hrs. 3 crs. Intensive study of a special area of interest in health education. Preq: Permission of instructor. Topics will vary with each offering and will be announced at registration. Not offered on a regular basis. Availability to be determined by the department.

HE495 (Liberal Arts, NOT Liberal Arts for Accounting Major) Independent Study in Health Education 0 hrs. 1 crs. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. Preq: Agreement of faculty member to act as adviser. Hours to be arranged.

HE496 (Liberal Arts, NOT Liberal Arts for Accounting Major) Independent Study in Health Education 0 hrs. 1 crs. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. Preq: Agreement of faculty member to act as adviser. Hours to be arranged.

HE497 (Liberal Arts, NOT Liberal Arts for Accounting Major) Independent Study in Health Education 0 hrs. 2 crs. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. Preq: Agreement of faculty member to act as adviser. Hours to be arranged.

HE498 (Liberal Arts, NOT Liberal Arts for Accounting Major) Independent Study in Health Education 0 hrs. 2 crs. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. Preq: Agreement of faculty member to act as adviser. Hours to be arranged.

Health Professions General Core

HPGC101 (Liberal Arts) Basic Concepts of Health Professions 2 hrs. 2 crs. Basic concepts of health and disease; background health determinants; infections and chronic diseases; maternal and

child health; geriatrics; social and physical environments. Field trips may be required.

HPGC102 (Liberal Arts) Public Health 3 hrs. 3 crs. Basic principles of health administration and organization, background and development of public health; community health needs and resources; public health activities and personnel; international public health. Preq: HPGC 101 or Sophomore status in Health Education or Health Sciences. Fields trips may be required.

HPGC201 (Liberal Arts) Principles of Epidemiology 3 hrs. 3 crs. Principles and methods in the epidemiological investigation of infectious and noninfectious diseases; incidence, distribution, and control of selected major diseases, with emphasis on causes, mode of transmission, diagnostic tests; prevention; statistical techniques. Preq: HPGC 102 or BIO 201 or Sophomore status in Health Education or Health Sciences. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

HPGC211 (Not Liberal Arts) Principles of Environmental Health Sciences 2 hrs. 2 crs. Principles of engineering and science used in the control of man's environment, water supply and treatment, sewage and waste water treatment, water collection and disposal, community air pollution, industrial hygiene, noise and illumination, radio logical health principles, housing, food and milk sanitation. Preq: HPGC 101, CHEM 102, MATH 121, BIO 202; or permission of instructor. Not open to students with credit in HPEH 321 or HPEH 322. 2 hours lecture.

HPGC212 (Not Liberal Arts) Principles of Environmental Health Sciences in Laboratory 4 hrs. 2 crs. Laboratory practices in environmental health sciences; introduction to sampling, monitoring and analysis in air and water pollution controls and solid waste handling; toxicity studies; animal handling. Preq: HPGC 101, CHEM 102, MATH 121, BIO 202, or permission of instructor. Coreq: HPGC 211. Not open to students with credit in HPEH 321 or HPEH 322. 4 hours laboratory. Field trips may be required.

Health Professions Health Science

HPHS105 (Not Liberal Arts) Medical Terminology 2 hrs. 2 crs. This course is designed to teach the basics of word-building and to teach the terminology commonly used to describe the physiology and pathology of the body. This class will increase the student's ability to access a broad range of medical literature and to communicate with health care professionals. Preq: HPGC 101

HPHS201 (Not Liberal Arts) Health Informatics 5 hrs. 4 crs. This course is an introduction to the field of health informatics. Rapid accessibility to information systems and tools is increasingly essential to the delivery of all aspects of medical care. This course explores the current issues, capabilities and limitations of health information technology. This course prepares students for careers in health care information systems, processing and managing health care data with computer and communication technologies. Emphasis is placed on health care information systems' architecture, computerized medical data processing and clinical decision support systems Preq: HPGC 101, AC 101, AC 201

HPHS211 (Not Liberal Arts) Marketing in Health Care 3 hrs. 3 crs. This course is designed to provide students with an understanding of the key principles underlying strategic marketing and how these principles are applied in the health care industry. The course will expose students to marketing fundamentals and demonstrate how an application of these fundamental principles should be applied to the overall strategic plan of a health care organization

HPHS302 (Not Liberal Arts) Health Policy 3 hrs. 3 crs. This course will provide a broad introduction to the fundamentals of the U.S. health care system including its history, organization, and economic aspects. The course will also examine health care systems in other countries and explore the current socio-political landscape of health reform in the U.S. In sum, the course will provide a health policy framework for evaluating the health care delivery in the U.S. Preq: HPGC 101

HPHS401 (Not Liberal Arts) Field-based Experience in Health Sciences 7 hrs. 4 crs. This course emphasizes health science field experience concurrent with didactic lecture. This is an applied experience that integrates the principles, theories, and concepts of health science with problems or issues existing in the health field. Track-specific fieldwork experience will take place in an approved public or private agency, health care or college/university settings. Preq: Permission of instructor. This is a writing intensive course

HPHS402 (Not Liberal Arts) Supervised Field Experience in Health Science 12 hrs. 5 crs. The supervised field experience (practicum) is a component of the capstone experience and is required of all B.S. of Health Science students. The experience provides the student with a practical experience in a Health Care Management OR Clinical setting requiring the student to apply and integrate the skills and knowledge learned during their undergraduate study. Preq: HPHS 401

Hebrew

HEB101 (Liberal Arts) Elementary Hebrew I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.

HEB102 (Liberal Arts) Elementary Hebrew II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: HEB 101, or two years of secondary school Hebrew, or by placement. Offered when the demand exists.

HEB105 (Liberal Arts) Intermediate Hebrew I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; functional review of grammar. Preq: HEB 102 or HEB 114. Offered when the demand exists.

HEB106 (Liberal Arts) Intermediate Hebrew II 3 hrs. 3 crs. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. Preq: HEB 105. Offered when the demand exists.

History

HIST100 (Liberal Arts) History of the Modern World Since 1815 3 hrs. 3 crs. Studies the development of the Western World from the end of the Napoleonic Age to the present within the context of global history; considers the concurrent rise of the Americas, Asia and Africa. Preq: ENG 125. Coreq: ENG 125.

HIST101 (Liberal Arts) Pacific Century: The Emergence of Modern Pacific Asia 3 hrs. 3 crs. Introduction to Asia and the Pacific area as we approach the twenty-first century. Themes in regional history emphasize the interaction between cultures and nations and evaluate domestic, political, economic and cultural trends in what is called the Pacific Basin. Preq: ENG 125. Coreq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HIST105 (Liberal Arts) The City in the Modern World 3 hrs. 3 crs. The historical role of the city in the development of the modern world. Preq: ENG 125. Coreq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HIST106 (Liberal Arts) Revolution and Social Thought 3 hrs. 3 crs. Revolution and social thought as a means of comprehending the development of the modern world. Preq: ENG 125. Coreq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HIST108 (Liberal Arts) The Three Worlds: Europe, the Americas and the Third World in Modern Times 3 hrs. 3 crs. Europe, the Americas, Africa and Asia in modern times; selected historical studies of imperialism, colonialism, nationalism and independence movements. Preq: ENG 125. Coreq: ENG 125.

HIST113 (Liberal Arts) The Birth of Europe 3 hrs. 3 crs. The formation of European civilization from earliest times into the 17th century. Preq: ENG 125. Coreq: ENG 125.

HIST201 (Liberal Arts) Beginnings of the American People 3 hrs. 3 crs. Major forces in American life from the time of colonial settlement to the end of the Civil War; emphasis on the crucial relationship between European ideas and institutions and the evolution of American society, politics, and culture; slavery and its role in dividing the Union and sowing the seeds of future discord. Preq: ENG 125.

HIST202 (Liberal Arts) The Emergence of Urban America 3 hrs. 3 crs. American life from the end of the Civil War to the present; emphasis on the effects of industrialization and urbanization on the American people, in particular on such groups as Blacks, immigrants, women and working people. Preq: ENG 125.

HIST203 (Liberal Arts) Slavery in World History 3 hrs. 3 crs. The study of slavery, its characteristics, motives, and justifications, as it has existed in ancient and modern times, in Asia, Africa, and the New World Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HIST204 (Liberal Arts) Contemporary America 3 hrs. 3 crs. America since 1945 with emphasis on the development of society and politics in the context of the Cold War and domestic social and economic unrest. Preq: ENG 125. Not open to students with credit in HIST 323.

HIST205 (Liberal Arts) History of Women in the United States 3 hrs. 3 crs. Women in American history: their status and contributions. Preq: ENG 125.

HIST206 (Liberal Arts) Women and the Family in World History 3 hrs. 3 crs. Political, economic and cultural status of women in select Western and non Western societies from ancient times through the modern world; changing family structures; historical role of outstanding women. Preq: ENG 125.

HIST210 (Liberal Arts) Renaissance, Reformation and the Early Modern European State 3 hrs. 3 crs. Study of the major cultural and intellectual trends, religious movements, economic and social changes, and political developments that characterized European society in the early modern era, ca. 1350-1715. Preq: ENG 125

HIST220 (Liberal Arts) History of Science 3 hrs. 3 crs. Traces the conceptual development, from ancient to modern times, of key ideas and methods that define and differentiate Natural Sciences. Preq: ENG 125.

HIST257 (Liberal Arts) East Asia to the Nineteenth Century 3 hrs. 3 crs. Introduction to political, military, economic, social, intellectual, and cultural developments in East Asian civilization; China, Japan, Korea, and Vietnam (Annam) from the earliest times to the 19th century. Preq: ENG 125.

HIST258 (Liberal Arts) East Asia from 1800 to the Present 3 hrs. 3 crs. Introduction to the political, military, economic, social, intellectual, and cultural aspects of the modernization of East Asia; China, Japan, Korea and Vietnam from 1800 to the present. Preq: ENG 125. 3 hours lecture.

HIST262 (Liberal Arts) History of the Middle East 3 hrs. 3 crs. Political and social developments in the Middle East from the rise of the Islamic Caliphate, the era of the Ottoman Empire, and western control to the present. Preq: ENG 125. Not offered on a regular basis.

HIST263 (Liberal Arts) Jewish History: From Ancient Israel until the end of the Middle Ages 3 hrs. 3 crs. The political, social, economic and religious history of the Jewish people before the entrance of the Jews into the Modern World. Preq: ENG 125. Not offered on a regular basis.

HIST264 (Liberal Arts) Jewish History: The Modern Period 3 hrs. 3 crs. The emancipation struggle, the rise of modern anti-Semitism, Zionism and the creation of the State of Israel. Preq: ENG 125. Not offered on a regular basis.

HIST272 (Liberal Arts) African-American History 3 hrs. 3 crs. Realities of the Afro-American experience from African origins to the present; political, economic, social, and cultural aspects including

19th and 20th century immigration and urbanization. Preq: ENG 125. Not offered on a regular basis.

HIST273 (Liberal Arts) The American Worker 3 hrs. 3 crs. American working conditions and labor organization from the Colonial Period to the present, with emphasis on the evolution of labor-management relations in the twentieth century. Preq: ENG 125.

HIST274 (Liberal Arts) The American Ethnic Experience 3 hrs. 3 crs. Cultural Diversity in the United States from the Colonial Period to the present with an emphasis on immigration from Europe, Asia, Africa and the Americas. Preq: ENG 125.

HIST275 (Liberal Arts) African History until 1800 3 hrs. 3 crs. Pre-Colonial period; social, economic, and cultural aspects of African civilization. Preq: ENG 125.

HIST276 (Liberal Arts) African History from 1800 until the Present 3 hrs. 3 crs. Development of Africa in the light of imperialism and African nationalism. Preq: ENG 125.

HIST277 (Liberal Arts) The Caribbean since Columbus 3 hrs. 3 crs. Historical account of the experiences of peoples in the Caribbean from European colonization to the present, with emphasis on socio-economic and political problems. Preq: ENG 125.

HIST278 (Liberal Arts) History of Modern India 3 hrs. 3 crs. Basic historical account of the struggles of the people of the Indian subcontinent against colonial domination, with emphasis on the nationalist movement from which India and Pakistan emerged. Preq: ENG 125.

HIST279 (Liberal Arts) History of African American Music, Emphasis on Hip Hop 3 hrs. 3 crs. This course traces the creation and evolution of Hip Hop from the early 1970s to the present. Specifically, it will chart the growth of a unique youth culture from the streets, parks, and playgrounds of America's most important city to streets, beaches, pubs, dance halls, and parks across the globe. The class will explore the transition of rap music from a counter-culture, to a subculture, to mainstream culture. Although the instructor will place much emphasis on rap music, the class also will examine the development of the myriad aspects of Hip-Hop Culture, including graffiti writing, breakdancing (and its related forms such as ñrockinî and ñpop-lockinî), and fashion. Preq: ENG 125 This course is cross listed with MUS 250, This is a writing intensive course

HIST311 (Liberal Arts) The Colonial Period of American History, 1492-1760 3 hrs. 3 crs. American colonial experience from the Age of Exploration to the Accession of George III Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST312 (Liberal Arts) The Era of the American Revolution, 1760-1815 3 hrs. 3 crs. The formative years of the American Republic from the War of Independence to the War of 1812. Preq: ENG 125 and three credits of History.

HIST313 (Liberal Arts) The Civil War 3 hrs. 3 crs. Causes, meaning and results of the war between the states; emphasis on

slavery, abolitionism, and Lincoln. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST315 (Liberal Arts) American Diplomatic History, 1789-1914 3 hrs. 3 crs. Foreign relations of the United States from the American Revolution to 1914. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST316 (Liberal Arts) American Diplomacy in the Twentieth Century 3 hrs. 3 crs. The United States as a world power from World War I through the Cold War. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST326 (Liberal Arts) American Economic History since the Civil War 3 hrs. 3 crs. Evolution of the American economy since the mid-19th century with emphasis on industrialization, growth, capitalism, and periodic instability. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST331 (Liberal Arts) The Ancient Near East and Greece 3 hrs. 3 crs. Development of civilization in the ancient Orient and Hellenic Greece. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST332 (Liberal Arts) The Ancient World: Rome 3 hrs. 3 crs. Development of civilization from the Hellenistic period through the fall of the Roman Empire in the West. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST333 (Liberal Arts) Nineteenth-Century Europe 3 hrs. 3 crs. European development from the age of Napoleon to 1914. Preq: ENG 125 and three credits of History.

HIST334 (Liberal Arts) Twentieth-Century Europe 3 hrs. 3 crs. European development from 1914 to 1945. Preq: ENG 125 and three credits of History.

HIST335 (Liberal Arts) Russia from the Middle Ages to 1855 3 hrs. 3 crs. Russian political, intellectual, and economic development from the Middle Ages to the reign of Tsar Nicholas I. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST336 (Liberal Arts) Russia from 1855 to the Present 3 hrs. 3 crs. Russian political, intellectual, and economic development from the mid-19th century through the Bolshevik Revolution to the present. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST337 (Liberal Arts) Modern England 3 hrs. 3 crs. English political, economic, and social development from the Tudor period to the Second World War. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST338 (Liberal Arts) Modern France 3 hrs. 3 crs. French political, economic, and social developments from the 18th century to the Fifth Republic Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST339 (Liberal Arts) Modern Germany: 1648-1945 3 hrs. 3 crs. Political, social, economic and cultural experiences of the German states to the establishment of the Federal Republic. Preq:

ENG 125 and three credits of History. Not offered on a regular basis. Availability to be determined by the department.

HIST340 (Liberal Arts) The Holocaust: The Jewish Experience Under Nazism 3 hrs. 3 crs. European Jewry under Nazi rule from 1933 to 1945; its literary and artistic aspects. Film presentations and guest lectures. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST344 (Liberal Arts) Contemporary Europe 3 hrs. 3 crs. Analysis of political, economic, diplomatic, and social developments in Europe from 1945 to the present. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST353 (Liberal Arts) Modern China 3 hrs. 3 crs. Chinas internal developments and foreign contacts from the late 18th century to the present. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST354 (Liberal Arts) Modern Japan 3 hrs. 3 crs. Major political, military, economic, social, and intellectual developments in Japan from the late 18th century to the present. Preq: ENG 125 and three credits of History. Offered alternate years.

HIST359 (Liberal Arts) Contemporary China and Japan 3 hrs. 3 crs. Analysis and discussion of major political, economic, diplomatic, social, and cultural developments in China and Japan from 1945 to the present technologies. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST367 (Liberal Arts) Colonial Latin America 3 hrs. 3 crs. Political and social development of Latin America; emphasis on the interplay of ethnic factors from the 16th century to independence. Preq: ENG 125 and three credits of History.

HIST368 (Liberal Arts) Latin America since 1825 3 hrs. 3 crs. Political and social development of Latin America from the attainment of independence to the present: emphasis on cultural and economic factors. Preq: ENG 125 and three credits of History.

HIST373 (Liberal Arts) The History of Technology 3 hrs. 3 crs. A history of select technologies, from their primitive beginnings to their contemporary hi-tech forms. Focus on social, economic, and cultural consequences of the use of these technologies. Examination of the interplay among practical interests, theoretical investigations, and technologies. Preq: ENG 125 and three credits of History. Not offered on a regular basis.

HIST374 (Liberal Arts) Africa and the Atlantic Slave Trade 3 hrs. 3 crs. A study of the political, economic, social and demographic challenges confronting Africa during the era of the Atlantic slave trade (15th _19th centuries). Preq: ENG 125 and 3 credits of History.

HIST375 (Liberal Arts) Decolonization in West Africa 3 hrs. 3 crs. A study of the revolutionary movements which resulted in the achievement of independence by the West African colonies, from 1940 to 1960. Preq: ENG 125 and 3 credits of History.

HIST376 (Liberal Arts) West Africa since Independence 3 hrs. 3 crs. An analysis of the progress and problems of West Africa

since independence (1960 to the present). Preq: ENG 125 and 3 credits of History.

HIST400 (Liberal Arts) Seminar in History 3 hrs. 3 crs. Selected topics in history such as European, United States, Asian, African, or Latin American, and special topics such as the history of science, historiography, and the philosophy of history. Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. Coreq: WRIT 31. Not offered on a regular basis.

HIST401 (Liberal Arts) Seminar in History 3 hrs. 3 crs. Selected topics in history such as European, United States, Asian, African, or Latin American, and special topics such as the history of science, historiography, and the philosophy of history. Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. Coreq: WRIT 31. Not offered on a regular basis.

HIST402 (Liberal Arts) Seminar in History 3 hrs. 3 crs. Selected topics in history such as European, United States, Asian, African, or Latin American, and special topics such as the history of science, historiography, and the philosophy of history. Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. Coreq: WRIT 31. Not offered on a regular basis.

HIST403 (Liberal Arts) Seminar in History 3 hrs. 3 crs. Selected topics in history such as European, United States, Asian, African, or Latin American, and special topics such as the history of science, historiography, and the philosophy of history. Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. Coreq: WRIT 31. Not offered on a regular basis.

HIST420 (Liberal Arts) Internship in History 3 hrs. 3 crs. Supervised activities, 8-10 hours per week, at historic sites, museums, societies, libraries, and/or government agencies. Students may help in the development of educational programs, conduct tours, assist with archival projects, and participate in a range of similar professional activities under supervision at their assigned site. Students will also meet twice monthly with York College History faculty to review and discuss their internship activities. Preq: 6 Credits in History with at least 3 credits at the 200 level or above, and Departmental Permission

HIST490 (Liberal Arts) Senior Research in History 3 hrs. 3 crs. Intensive, individually guided advanced research. Preq: At least three credits of History at 200 level or higher, Senior status and WRIT 301. Not offered on a regular basis.

Humanities

HUM101 (Liberal Arts) American Tradition of Social Change 3 hrs. 3 crs. This course examines texts and new media which express the desire for or the fact of political, social or economic change in the context of American culture; the current problems which engage the historian, social scientist, artist or the humanist will be explored. Open only to Freshmen and Sophomores. Not offered on a regular basis. Availability to be determined by the department.

HUM202 (Liberal Arts) Introduction to Linguistics 3 hrs. 3 crs. Practical introduction to general and historical linguistics. Preq: ENG 125.

HUM203 (Liberal Arts) Tradition and Innovation in the Twentieth Century 6 hrs. 6 crs. Responses of Humanities disciplines to crises of communication and values in the 20th century; interrelationship among history, philosophy, and the arts. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM204 (Liberal Arts) Ibsen and Strindberg 3 hrs. 3 crs. A study of the life and works of the Scandinavian writers Henrik Ibsen and August Strindberg. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM205 (Liberal Arts) Gateway to the Modern Age 6 hrs. 6 crs. The flowering of individualism in the 15th and 16th centuries; history, the arts, literature and philosophy interrelated. Preq: ENG 125 and Sophomore status. Not open to students with credit in HIST 343. Not offered on a regular basis. Availability to be determined by the department. History majors may credit 3 of the 6 credits toward major requirements.

HUM206 (Liberal Arts) Judaism I Aspects and Trends from the Beginning to the Middle Ages 3 hrs. 3 crs. The analysis of Jewish thought from the early Patriarchs to medieval philosophy special emphasis on prophetic Judaism, the conflict between Judaism and Christianity, rabbinic sages and the Golden Age of Judaism in Spain. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM207 (Liberal Arts) Judaism II Modern and Contemporary 3 hrs. 3 crs. The life of the Jews in Eastern Europe during the eighteenth and nineteenth centuries, basic aspects of Jewish life in America, and main questions concerning Jewish existence in Israel today. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM209 (Liberal Arts) Gender and Language 3 hrs. 3 crs. This course will introduce students to a linguistic-anthropological perspective on the relationship between Language and Gender. We will analyze how language emerges from, reproduces, and sometimes challenges gender ideologies and gendered practices in all societies. We will also consider how other aspects of an individual's identity, such as race, ethnicity, class, age, and sexual orientation, articulate with gender in linguistic interactions. Preq: ENG 125 THIS IS A WRITING INTENSIVE COURSE

HUM219 (Liberal Arts) Introduction to Second Language Acquisition 3 hrs. 3 crs. This course provides an introduction to second language acquisition. Issues to be examined include: the role of the first language; psychological aspects; sociolinguistic aspects; and such socio-educational aspects as bilingualism, and immersion of second language acquisition. These issues will be discussed in terms of theoretical models of second language learning. Students will be introduced to research methodology employed in second language studies. Preq: ENG 125 and HUM 202

HUM221 (Liberal Arts) Pictures of Italy: A journey into Modern & Contemporary Literature through Film 3 hrs. 3 crs. A portrait of the recent history of Italy, as well as related aspects of Italian socio-economic development from the Fifty's to

the present, through its own films. Special emphasis will be placed on current and important topics including immigration, cultural diversity, education, and industry. This course is a Writing Intensive Course; students will write and draft at least 10 pages. Preq: ENG 125 Section of this course may be offered in h-WEB format. THIS IS A WRITING INTENSIVE COURSE.

HUM224 (Liberal Arts) Cinematic Adaptation 3 hrs. 3 crs. Close reading and analysis of several plays accompanied by the viewing of cinematic adaptations of those plays, both American and foreign. Questions of adaptation in general as well as issues particular to the playwright will be considered. This is a Writing Intensive (WI) course. Preq: ENG 125 THIS IS A WRITING INTENSIVE COURSE

HUM225 (Liberal Arts) The Jewish People in the Greco-Roman World: 333 B.C. to 476 A.D. 3 hrs. 3 crs. An analysis of the political, social, economic, and intellectual role of the Jew in the Greco-Roman world; special emphasis on the contributions of Philo Judaeus, Josephus Flavius, and The Septuagint to Western thought and civilization. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM230 (Liberal Arts) Fairness Equity 3 hrs. 3 crs. A survey of the analytical methods applied to the areas of fairness, equity, justice and democracy. Topics will be selected from election methods, apportionment, fair division, fair taxes, auctions, and related ideas.

HUM235 (Liberal Arts) The Digital Revolution 3 hrs. 3 crs. A survey of the analytical ideas underlying the development of such new technologies as fax machines, compact discs, and the World Wide Web. Preq: MATH 020. Topics will include error-correction codes, data compression, and data security.

HUM250 (Liberal Arts) The Italian Experience in the United States 3 hrs. 3 crs. A study of the historical, political, literary and artistic experiences and achievements of Italian immigrants and their descendants in the United States. Music, cinema, language, and other issues of ethnic identity will be explored. Preq: ENG 125. This course will be taught as a Writing Intensive Course; students will draft and revise at least 10 pages during the semester.

HUM251 (Liberal Arts) Asian American Experience 3 hrs. 3 crs. This introductory course is designed to acquaint students with the major Asian groups in the U.S., namely the Chinese, Indian, Japanese, Korean, Filipino, Vietnamese and other Southeast Asian groups. The topics of the course will include history, immigration laws, contributions, population characteristics, family and community problems, ethnic identity and acculturation. Preq: ENG 125.

HUM252 (Liberal Arts) The Jewish Experience in the United States 3 hrs. 3 crs. This course will examine the political, social, institutional and religious development of American Jewry from the Colonial period to the present. Preq: ENG 125.

HUM253 (Liberal Arts) The Haitian Experience in the USA 3 hrs. 3 crs. A study of the different waves of Haitian emigration in the USA and its effects on the lives of the Haitian immigrants and on the people of the USA. Preq: ENG 125.

HUM257 (Liberal Arts) The French: People, Language, and Culture 3 hrs. 3 crs. French "National Character" as seen through customs, culture, and especially language; comparisons to the United States. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM260 (Liberal Arts) The World of Opera: A Concise History 3 hrs. 3 crs. A study of the history of opera. Special emphasis will be placed on the contributions of composers from diverse linguistic and cultural backgrounds. Preq: ENG 125.

HUM272 (Liberal Arts) The Latino Experience in the U.S. 3 hrs. 3 crs. Introduction to the history, literature, ethnicity, culture and socio-economies of Latinos in the U.S. Preq: ENG 125 and Sophomore status. Not offered on a regular basis. Availability to be determined by the department.

HUM281 (Liberal Arts) Introduction to Eastern Religion 3 hrs. 3 crs. Methods and problems in the interpretation of religious phenomena; emphasis on major religions of the East, founders, scriptures, ideas, and moral standards; influence of Eastern religions on life and thought of Asiatic peoples. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM282 (Liberal Arts) Introduction to Western Religion 3 hrs. 3 crs. Brief introduction to the religions of the Near East; Judaism, Biblical Christianity, and Islam; emphasis on their scriptures, ideas, and moral standards, and the interaction and influence of these religions on the life and thought of their followers. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM283 (Liberal Arts) Mahayana Buddhism 3 hrs. 3 crs. Buddhism in Tibet, China, and Japan; history and thought of northern Buddhism and its interaction with indigenous religions; readings in Mahayana literature in translation and a study of Chinese and Japanese Buddhist sects. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM284 (Liberal Arts) Studies in Twentieth-Century Christian Thought 3 hrs. 3 crs. The impact of the dramatic changes in Western Civilization since 1900 as seen through such representative theologians as Barth, Bonhoeffer, Teilhard de Chardin, and Tillich. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

HUM290 (Liberal Arts) Special Topics in Humanites 3 hrs. 3 crs. The study and analysis of a chosen topic from the humanist tradition, examined and presented with an interdisciplinary approach. Preq: ENG 125. The course may, depending on the topic and instructor, be offered as a Writing Intensive course.

HUM300 (Liberal Arts) The Nature of Human Communication 3 hrs. 3 crs. Human communication considered as a faculty (rather than as a skill or an art-form) inherent to the species. Verbal and non-verbal, inter and intrapersonal, and intercultural communication; signs, symbols and symbol-systems; communication models and theories. Emphasis on people as makers and inhabitants of "worlds of discourse." Preq: ENG 125 and Junior

status. This course is intended for students who have already developed analytical and language skills to the level of capability for independent inquiry since the subject matter is complex and theoretical.

HUM302 (Liberal Arts) Women's Studies I 3 hrs. 3 crs. A cross cultural exploration of women which will treat such topics as the social construction of reality, the formation of gender roles, health and sexuality, women authors in the United States and the Third World, women and political power, the contemporary women's movement and directions for the future. Preq: ENG 125 and Sophomore status. Not open to students with credit in HUM 301.

HUM303 (Liberal Arts) Women's Studies II 3 hrs. 3 crs. Introduces the student to an interdisciplinary analysis of women's roles in different historical periods. It will explore such themes as the origins of male dominance, and women's place in religion, the family, the creative experience, and utopian societies. Preq: ENG 125 and Sophomore status. Not open to students with credit in HUM 301.

HUM304 (Liberal Arts) Gender Dynamics in the Twentieth Century 3 hrs. 3 crs. The nature and significance of changing concepts of gender in modern society as reflected in politics, psychology, literature and popular culture, and theoretical works. This advanced course will explore the role of gender identity in Twentieth Century so Preq: ENG 125

HUM310 (Liberal Arts) Prejudice Viewed Existentially 3 hrs. 3 crs. An analysis, from a predominantly existential approach, of the attitudes towards "The Other" in the person of the Jew, the Woman, and the Black. Preq: ENG 125 and Sophomore status. This course is the same as BHSC 310.

HUM320 (Liberal Arts) Interdisciplinary Honors Seminar 3 hrs. 3 crs. Selected advanced topics will be explored from an interdisciplinary perspective. Students will read from the original source in each discipline covered in the course and synthesize the material through class discussion, written assignments, and oral presentation. Preq: Membership in the York College Honors Program or permission of the instructor.

HUM350 (Liberal Arts) Italian Culture and Civilization 4 hrs. 3 crs. Major trends and development in the evolution of Italian society and culture. Besides an outline of a culture historically defined, the course specifically explores the present day. Topics include fine arts, music, cinema, regional folklore and traditions, fashion, and gastronomy. Oral presentations may be required. Preq: ENG 125 Not offered on a regular basis. Availability to be determined by the department

Interdisciplinary Studies

IS400 (Liberal Arts) Senior Seminar 3 hrs. 3 crs. A capstone seminar on the connections between the events of history, the plots of imaginative literature, and the arguments of philosophy, rhetoric, and science. Preq: WRIT 301, 302 or 303, Senior status

and 27 credits completed in Interdisciplinary Studies Major. Open to Seniors Only This is a Writing Intensive course.

Italian

ITAL101 (Liberal Arts) Elementary Italian I 4 hrs. 4 crs. Basic principles of a beginners' course designed to give the foundation for understanding, speaking, reading, and writing the language; study of simple syntax. This course may be offered as an H-WEB course. Not open to students with credit in ITAL 113. In Italian 101 and 102, there will be some audiovisual sections for students who prefer a greater emphasis on the spoken language, integrating the use of films, videotapes and laboratory materials.

ITAL102 (Liberal Arts) Elementary Italian II 4 hrs. 4 crs. Continuation of the beginners' course; integrated reading and further practice in conversation. Preq: ITAL 101 or ITAL 113, or two years of secondary school Italian, or by placement examination. Continuation of the beginners' course; integrated reading and further practice in conversation. Section of this course may be offered in h-WEB format.

ITAL104 (Liberal Arts) Rapid Review of Basic Italian 3 hrs. 3 crs. A refresher course of basic Italian grammar and reading integrating the use of tapes and laboratory materials. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied Italian syntax. Preq: ITAL 102. Not credited toward fulfillment of Italian Major. Not open to students with credit in ITAL 105 or above. Not offered on a regular basis. Availability to be determined by the department.

ITAL105 (Liberal Arts) Intermediate Italian I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; more complex grammatical structures. Preq: ITAL 102 or ITAL 114 or placement by department. Section of this course may be offered in h-WEB format.

ITAL106 (Liberal Arts) Intermediate Italian II 3 hrs. 3 crs. Intensive oral-aural practice based on literary texts. Preq: ITAL 105. Not offered on a regular basis. Availability to be determined by the department.

ITAL113 (Liberal Arts) Elementary Italian I 3 hrs. 3 crs. Beginners' course designed to give a broad basis for speaking, reading, and writing the language. Not open to students with credit in ITAL 101. Not offered on a regular basis. Availability to be determined by the department.

ITAL114 (Liberal Arts) Elementary Italian II 3 hrs. 3 crs. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: ITAL 101 or ITAL 113. Not open to students with credit in ITAL 102. Not offered on a regular basis. Availability to be determined by the department. Courses numbered 200 and above are normally conducted entirely in Italian, except when otherwise indicated.

ITAL200 (Liberal Arts) Commercial Italian I 3 hrs. 3 crs. Specialized language used in the Italian world of commerce; composing and translating business letters, commercial documents,

and import-export terminology. Preq: ITAL 105, native speaker or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL207 (Liberal Arts) Historical Survey of Italian Literature I: From its Origin to Mid-Sixteenth Century 3 hrs. 3 crs. Italian literature from the Sicilian School to the Renaissance. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL208 (Liberal Arts) Historical Survey of Italian Literature II: From Mid-Sixteenth Century to Mid-Nineteenth Century 3 hrs. 3 crs. Italian literature of the late Renaissance, the Baroque, Neo-Classicism, and Romanticism. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL209 (Liberal Arts) Historical Survey of Italian Literature III: From Mid-Nineteenth Century to the Present 3 hrs. 3 crs. Italian literature of Realism, Futurism, Surrealism, Neo-Realism, and Existentialism. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL225 (Liberal Arts) Commercial Italian II 3 hrs. 3 crs. Emphasis on translation of documents, business related materials and newspaper articles, materials obtained from banks, export and import companies, stock exchange, and custom offices dealing with Italian business transactions. Preq: ITAL 200 or permission of department. Not offered on a regular basis. Availability to be determined by the department. The student will be exposed to a wide range of Italian commercial terminology. Speakers from various business firms will address the students.

ITAL230 (Liberal Arts) Intermediate Conversation 3 hrs. 3 crs. Discussions conducted in Italian; intended to give language fluency with emphasis on the language used in daily conversation. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL232 (Liberal Arts) Advanced Conversation 3 hrs. 3 crs. Oral expression and idiomatic usage; intended to give correctness and fluency in the use of the language. The oral work based on readings or representative modern authors, although a few earlier texts included. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL233 (Liberal Arts) Advanced Grammar with Composition 3 hrs. 3 crs. Composition and thorough review of grammar; written and oral work based on readings of representative modern authors. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL234 (Liberal Arts) Advanced Composition and Style 3 hrs. 3 crs. Composition based on readings of representative modern authors; emphasis on syntax and style. Preq: ITAL 233 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL240 (Liberal Arts) Translation I 3 hrs. 3 crs. Developing skills in translation from Italian to English and English to Italian; materials will be selected from advertising, journalism, literature, business, and other technical areas. Preq: ITAL 106 or native speaker or permission of department and completion of Instrumental English requirement. Not offered on a regular basis. Availability to be determined by the department.

ITAL241 (Liberal Arts) Translation II 3 hrs. 3 crs. Continuation of ITAL 240; more extensive translation of commercial, journalistic, literary, and scientific texts. Preq: ITAL 240 or native speaker or permission of department. Not offered on a regular basis. Availability to be determined by the department.

ITAL243 (Liberal Arts) The Italian Theatre I: From its Origin to the End of the Eighteenth Century 3 hrs. 3 crs. Representative works from the teatro sacro of the 13th century to Alfieri's Tragedies; particular attention given to the commedia dell'arte. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL245 (Liberal Arts) Italian Renaissance 3 hrs. 3 crs. The evolution of Renaissance literary genres: the epic, lyric poetry, and drama. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL247 (Liberal Arts) The Italian Theatre II: Nineteenth and Twentieth-Century Italian Theatre 3 hrs. 3 crs. From the teatro verista of the 19th century to the plays of Pirandello and other major Italian dramatists. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL248 (Liberal Arts) Italian Short Story 3 hrs. 3 crs. Origin and development of the Italian short story from Boccaccio to the present; particular attention given to the problems of the short story as a literary form during the 19th and 20th centuries. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL250 (Liberal Arts) Nineteenth-Century Italian Novel 3 hrs. 3 crs. Representative 19th century Italian novels from Foscolo to Verga. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL251 (Liberal Arts) Twentieth-Century Italian Novel 3 hrs. 3 crs. Representative 20th century Italian novels from D'Annunzio to Bevilacqua. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL265 (Liberal Arts) Nineteenth-Century Italian Poetry 3 hrs. 3 crs. Analysis of representative 19th century Italian poetry. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL266 (Liberal Arts) Twentieth-Century Italian Poetry 3 hrs. 3 crs. Analysis of representative 20th century Italian poetry. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL313 (Liberal Arts) Dante's Divine Comedy I: Inferno 3 hrs. 3 crs. A close examination of Dante's Inferno with some consideration of Vita Nuova; particular attention to allegory, symbolism, and structure. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL315 (Liberal Arts) Petrarch and Boccaccio 3 hrs. 3 crs. The lyric poetry of Petrarch's Canzoniere and the novella from its origin to Boccaccio's Decameron. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL317 (Liberal Arts) Dante's Divine Comedy II: Purgatorio 3 hrs. 3 crs. A close reading of selected cantos of the Purgatorio; emphasis on Dante's poetics and the significance of the Divine Comedy in the history of Western culture. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL318 (Liberal Arts) Dante's Divine Comedy III: Paradiso 3 hrs. 3 crs. A close reading of selected cantos of the Paradiso; emphasis on Dante's poetics and the significance of the Divine Comedy in the history of Western culture. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL319 (Liberal Arts) Pirandello 3 hrs. 3 crs. Pirandello's philosophical ideas as seen through his principal novels and dramas. Preq: ITAL 106. Not offered on a regular basis. Availability to be determined by the department.

ITAL356 (Liberal Arts) A Major Italian Author in Translation 3 hrs. 3 crs. A major Italian author such as Pirandello, Boccaccio, or Machiavelli. Author announced each semester. Can be repeated for credit. Not offered on a regular basis. Availability to be determined by the department.

ITAL400 (Liberal Arts) Individual Study 0 hrs. 3 crs. Independent, guided research under the supervision of the Italian faculty. Preq: Permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

ITAL405 (Liberal Arts) Seminar in Italian Literature 3 hrs. 3 crs. Intensive examination of a special phase of Italian literature; especially designed to give students experience in scholarly research. Preq: ITAL 106. Not offered on a regular basis. Availability to be determined by the department.

Journalism

JOUR280 (Liberal Arts) Introduction to Journalism 3 hrs. 3 crs. Introduction to the basics of hard newswriting and reporting; writing balanced, high-impact news pieces. The fundamentals of newspaper editing and production. Preq: ENG 125. Not open to students with credit in ENG 280. This is a Writing Intensive course.

JOUR281 (Liberal Arts) Introduction to Feature Writing 3 hrs. 3 crs. Introduction to writing standard feature pieces and editorials for publication in newspapers or magazines. Development of the

interviewing and research skills required to produce sophisticated features. Preq: ENG 125. Not open to students with credit in ENG 281. This is a Writing Intensive course.

JOUR282 (Liberal Arts) Introduction to Writing Broadcast News 3 hrs. 3 crs. Introduction to broadcast journalism and the basics of writing television and radio news. The course explores the differences between writing for broadcast versus print, and considers also the changing role of the broadcast news writer in a converging media environment. Students work on-site in the Television Studio. Preq: ENG 125. Not open to students with credit in ENG 282. Students work on-site in the Television Studio.

JOUR285 (Liberal Arts) Basics of Online Journalism 3 hrs. 3 crs. Introduction to the fundamentals of practicing Journalism online in an environment that encourages a multimedia presentation of content. Preq: ENG 125 Not open to students with credit in ENG 380.

JOUR321 (Liberal Arts) Editorial Writing, Commentary, and Criticism 3 hrs. 3 crs. Introduction to the practices, standards, and skills involved in producing professional-level opinion writing for newspapers, magazines, online, and broadcast. Students learn techniques for writing a wide range of opinion pieces and consider related ethical issues. Preq: JOUR 280 or JOUR 281 or ENG 280 or ENG 281.

JOUR322 (Liberal Arts) Advanced Feature Writing 3 hrs. 3 crs. Building on Journalism 281, this course explores the advanced skills and techniques needed to produce in-depth features for magazines and newspapers: From finding original concepts and angles to effective reporting, crafting of the story, and editing. Students read and analyze the work of successful writers and produce two mid-length features and a longer narrative. Preq: JOUR 281 or ENG 281.

JOUR380 (Liberal Arts) Basics of Online Journalism 3 hrs. 3 crs. Introduction to the fundamentals of practicing journalism online in an environment that encourages a multimedia presentation of content. Students learn to report and tell stories online by combining the elements of printed text, photos, graphics, audio, video, and interactivity; and to evaluate and make use of a wide range of online resources. Preq: ENG 125. Not open to students with credit in ENG 380. This is a Writing Intensive course.

JOUR381 (Liberal Arts) Investigative and In-Depth Reporting 3 hrs. 3 crs. Advanced reporting, research, and news writing methods that lead to revealing, authoritative investigative pieces; working from secondary print and online sources, accessing primary documents, establishing contacts with human sources, and making use of computer-assisted reporting. The course also explores investigative interviewing techniques and associated ethical and legal issues. Preq: JOUR 280 or ENG 280 or JOUR 281 or ENG 281. Not open to student with credit in ENG 381.

JOUR382 (Liberal Arts) Nonfiction Book Writing 3 hrs. 3 crs. Conceptualizing, researching, organizing and writing a professional-level nonfiction book proposal. Techniques for writing non-fiction books and negotiating a book contract. Preq: JOUR 280 or JOUR

281 or ENG 280 or ENG 281 or ENG 286. Not open to students with credit in ENG 382.

JOUR383 (Liberal Arts) Beat Reporting and Community News Coverage 3 hrs. 3 crs. Introduction to the skills and journalistic concerns associated with working as a beat reporter covering local news. Routines and practices involved in covering a number of regular community beats, strategies for doing specialty reporting, and hands-on reporting experience covering a beat for a local newspaper or student publication. Preq: JOUR 280 or ENG 280 or JOUR 281 or ENG 281.

JOUR384 (Liberal Arts) Journalism Literature 3 hrs. 3 crs. Examination of the reporting, writing, and storytelling techniques that gave rise to a tradition of journalism literature in America, from the advent of the New Journalism in the 1960s and 1970s (Capote, Wolfe) to the more recent experimental, rigorously reported, socially focused works that have been dubbed the New New Journalism. Students learn to recognize and use in their own writing the research, reporting, organization, and literary devices employed in these long-form journalistic works. Preq: JOUR 281 or ENG 281 or JOUR 280 or ENG 280.

JOUR385 (Liberal Arts) Essentials of Editing 3 hrs. 3 crs. Introduction to the basics of professional editing for print and online journals while using current editing tools. Students learn the skills of assignment editor, copy editor, and production editor; they serve alternately as editors and reporters for article submissions (complete with photos and graphics) to the college student newspaper or another publication. Preq: JOUR 280 or JOUR 281 or ENG 280 or ENG 281. Coreq: WRIT 301 or WRIT 302 or WRIT 303. This is a Writing Intensive course.

JOUR387 (Liberal Arts) Journalism Ethics and Legal Issues 3 hrs. 3 crs. Introduction to fundamental issues, practices, and rules applied to Journalism ethics and legal questions. Students explore the ethical standards that journalists are expected to follow and grapple with the ethical dilemmas that arise on a regular basis. The class also examines legal protections and rights afforded journalists, the legal limitations placed on their activities, and legal considerations involved in pursuing a career in journalism. Preq: JOUR 280 or JOUR 281 or ENG 280 or ENG 281.

JOUR388 (Liberal Arts) Digital Photojournalism 3 hrs. 3 crs. Introduction to the principles and theories of photojournalism in a filmless environment. After reviewing SLR digital camera techniques, students take photographs that are suitable for publication in newspapers, magazines, and/or online; develop story ideas; cover events; and edit their own photographs using computer software Preq: JOUR 280 or JOUR 281.

JOUR389 (Liberal Arts) Advanced Reporting and Writing for Broadcast News 3 hrs. 3 crs. Building on Journalism 282, a hands-on approach to more sophisticated reporting and interviewing techniques and writing formats used in radio and television broadcast news. Teams write packages to be edited and aired in the Television Studio. Preq: JOUR 282 or ENG 282.

JOUR399 (Liberal Arts) Special Topics in Journalism 3 hrs. 3 crs. A selected topic in Journalism. Preq: JOUR 280 or JOUR 281 or

JOUR 282. Departmental Permission Required. The topic varies with each offering. This course may be repeated no more than 6 credits if different topics are studied.

JOUR481 (Not Liberal Arts) Journalism Fieldwork I 2 hrs. 3 crs. Students work for as interns for a professional media company in either print, broadcast, online, or publishing fields. This course is required to complete a Journalism degree. Preq: Senior status and completion of 27 credits in the major. hours lecture plus a minimum of 105 hours of work experience per semester.

JOUR483 (Not Liberal Arts) Journalism Fieldwork II 2 hrs. 3 crs. Students work a second internship for a professional media company in either print, broadcast, online or publishing fields. Preq: JOUR 481 hours lecture plus a minimum of 105 hours of work experience per semester.

JOUR498 (Liberal Arts) Independent Study TBA hrs. 3 crs. Completion of a substantial, supervised, individual project within a specialized area of Journalism. Preq: Permission of instructor and department.

Marketing

MKT341 (Not Liberal Arts) Introduction to Marketing 3 hrs. 3 crs. Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management. Preq: BUS 201

MKT342 (Not Liberal Arts) Marketing Research 3 hrs. 3 crs. Application of scientific methodology to development and testing of marketing programs. Examination of research tools including questionnaires, sampling, interviewing and report writing. Preq: MKT 341, MATH 115, and ECON 220.

MKT343 (Not Liberal Arts) Advertising and Public Relations 3 hrs. 3 crs. Organization, planning and control of the advertising and public relation functions; the role of agencies and media; the relationship of communication, publicity, and public opinion. Preq: MKT 341.

MKT344 (Not Liberal Arts) Retail Management 3 hrs. 3 crs. Organizing, planning, staffing, directing and controlling of retail operations; study of buying and merchandising, store services, human resource utilization, and sales and expense control. Preq: MKT 341.

MKT345 (Not Liberal Arts) Principles of Selling 3 hrs. 3 crs. Skills needed for effective salesmanship; concepts from behavioral sciences as well as proven techniques in prospecting, preparing and making a sales presentation, overcoming objections, and closing the sale. Preq: MKT 341 or permission of instructor. Students will develop their skills by role playing.

MKT346 (Not Liberal Arts) International Marketing 3 hrs. 3 crs. Analysis of world markets, trade channels, promotion and financing; study of communication channels, sources of information and unique customers and practice in individual markets abroad; the role of multinational corporations. Preq: MKT 341.

MKT347 (Not Liberal Arts) Consumer Behavior 3 hrs. 3 crs. Analysis and evaluation of the motives, decision process, and behavior consumers, utilizing the latest contributions in marketing and economics. Impact of the Consumer Movement on the market. Preq: MKT 341 or permission of instructor.

MKT350 (Not Liberal Arts) Industrial Marketing 3 hrs. 3 crs. A managerial approach to marketing decision making in an industrial market. Topics include vendor and value analysis, inventory control, sales forecasting, industrial market planning, marketing auditing, sales force and channel management. The course objective is to learn new concepts, tools, and techniques applicable to the marketing of industrial products. Insights are gained into specific aspects of the marketing of industrial products and services. The course provides an understanding of methods and strategies of leading U.S. corporations involves in the marketing of U.S. products in the U.S. and overseas. Preq: MKT 341.

MKT351 (Not Liberal Arts) Sales Management 3 hrs. 3 crs. Sales management functions: recruitment, selection, training, design or compensation systems, sales forecasting, determination of sales quotas, evaluation of performance; personal selling within the context of the marketing concept. Preq: MKT 341 or permission of instructor.

MKT352 (Not Liberal Arts) Direct Marketing 3 hrs. 3 crs. An examination of the concepts, strategies and applications involved in direct marketing, including mail order, direct response advertising and marketing on the Internet. Measurability, accountability, lists, data and the integration of direct marketing programs into total marketing efforts and overall organization goals and functions are discussed. Preq: MKT 341.

MKT353 (Not Liberal Arts) Aviation Marketing and Economics 3 hrs. 3 crs. An examination of the economics principles and marketing practices of the major components of the air transportation industry: Air carriers, aircraft and engine manufacturers, FBOs (fixed-base operators), and support services. Topics include: Load factors Preq: ECON 102 or Department permission required.

MKT483 (Not Liberal Arts) Marketing Management 3 hrs. 3 crs. Capstone course for majors in Marketing in senior year, the organization and operation of the marketing function; the development of marketing programs, including product planning, sales, advertising and physical distribution. Preq: MKT 341 and MKT 342 and MKT 343 or MKT 347

MKT490 (Not Liberal Arts) Independent Study in Marketing 3 hrs. 3 crs. In-depth investigation of a marketing problem of the student's choice with faculty approval and guidance. Preq: Junior status and permission of instructor.

Mathematics

MATH102 (Liberal Arts) Intermediate Algebra 3 hrs. 1 crs. The real numbers, linear equations and inequalities, polynomials, factoring, rational expressions, roots and radicals, quadratic equations, lines, systems of linear equations, functions and their

graphs, exponential and logarithmic functions, applications. Preq: MATH 011 or by placement. May not be used to meet General Education Requirements. Not credited toward fulfillment of mathematics major requirements.

MATH104 (Liberal Arts) College Algebra 4 hrs. 3 crs. Basic concepts of sets, algebra, graphs and functions; linear, rational, exponential, and logarithmic functions and their applications. Preq: Placement via the CUNY math placement exam or by the department Coreq: Placement via the CUNY math placement exam or by the department Not to be used to satisfy the general education requirement and not to be used to satisfy the requirement for mathematics major.

MATH111 (Liberal Arts) Introduction to Statistics and Probability 4 hrs. 4 crs. Elements of statistics, graphs, frequency distributions, measures of central tendency and measures of dispersion; elementary probability theory, counting, binomial and normal distributions. Preq: MATH 102, the equivalent, or placement exam. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 180, MATH 210, or MATH 221.

MATH115 (Liberal Arts) Quantitative Methods for Decision Making 4 hrs. 4 crs. Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus; mathematics of finance; and related topics. Preq: MATH 102, the equivalent, or placement examination. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 221.

MATH119 (Liberal Arts) Computer Algebra System 1 hrs. 1 crs. An introduction to computer algebra systems such as MAPLE. Basic functions of the system will be introduced, then they will be used to explore various precalculus topics. Preq: MATH 102 Coreq: MATH 12.

MATH120 (Liberal Arts) Pre-Calculus 4 hrs. 4 crs. Advanced topics in algebra, functions and graphs, inverse functions, composite functions, polynomial and rational functions, trigonometry, exponential and logarithmic functions. Preq: MATH 102. Coreq: MATH 119. Not to be used to satisfy the general education requirement and not to be used to satisfy the requirement for mathematics major.

MATH121 (Liberal Arts) Analytic Geometry and Calculus I 4 hrs. 4 crs. An introduction to calculus and analytic geometry; emphasis on theory as well as techniques and applications; functions, limits, differentiation, integration; applications; lines, conic sections, and graph sketching. Preq: MATH 119 and MATH 120. Not open to students with credit in MATH 184.

MATH122 (Liberal Arts) Analytic Geometry and Calculus II 4 hrs. 4 crs. Derivatives and integrals of transcendental functions, applications of integration, methods of integration, L'Hopital's rule, improper integrals, infinite series, conic sections. Preq: MATH 121 or MATH 184.

MATH141 (Liberal Arts) Discrete Mathematics 3 hrs. 3 crs. Introduction to topics in discrete mathematics, such as number

systems, mathematical induction, combinatorics, recursion and graph theory. Algorithmic aspects of the topics discussed will be emphasized. Preq: MATH 115 or MATH 121, or equivalent.

MATH150 (Liberal Arts) Mathematics and its Applications 4 hrs. 4 crs. Survey course for liberal art students that emphasizes recent mathematics and its applications, especially mathematics which supports the development of new technologies. Preq: Passing CUNY Math Skills Test. Not credited toward Mathematics major requirements. Not open to students with credit in MATH 221 Topics will be selected from geometry, algebra, discrete mathematics, etc.

MATH184 (Liberal Arts) Analytic Geometry and Calculus I 5 hrs. 4 crs. Same content as Mathematics 121, supplemented with selected pre-calculus material. Preq: MATH 101 or by placement Not open to students with credit in MATH 121. Not offered on a regular basis. Availability to be determined by the department.

MATH190 (Liberal Arts) Computers in Modern Society 4 hrs. 4 crs. Introduction to computer programming, using the language BASIC; solution of simple problems in many fields to broaden the students view of the capabilities of the computer; an overview of current computer systems, software, and trends. Preq: MATH 102, the equivalent, or placement exam. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 191. Students are expected to complete several laboratory assignments.

MATH210 (Liberal Arts) Probability and Statistics I 4 hrs. 4 crs. Elementary data analysis, simple regression, correlation, basic probability theory: combinatorial problems, random variables, distributions, expectation; law of large numbers, central limit theorem, applications. Preq: MATH 122. Not open to students with credit in MATH 111 or MATH 181, except by permission of Chair of Mathematics and Computer Studies Department.

MATH211 (Liberal Arts) Probability and Statistics II 4 hrs. 4 crs. Fundamental concepts of statistics, multivariate distributions, sampling theory, estimation theory, hypothesis testing, goodness-of-fit, linear regression. Preq: MATH 210 and MATH 221. Not open to students with credit in MATH 113, except by permission of the Chair of Mathematics and Computer Studies Department.

MATH221 (Liberal Arts) Analytic Geometry and Calculus III 4 hrs. 4 crs. Parametric equations and polar coordinates, power series, radius and interval of convergence, Taylor series. Solid analytic geometry, vector-valued functions, functions of several variables, partial derivatives, multiple integrals. Preq: MATH 122.

MATH223 (Liberal Arts) Differential Equations & Dynamical Systems 3 hrs. 3 crs. An introduction to differential and difference equations: first order equations; higher order equations with constant coefficients; linear systems; applications. Introduction to dynamical systems, orbits, and chaos, showing the connection with differential equations. Modeling applications. Preq: MATH 221. Not open to students with credit in MATH 222

MATH225 (Liberal Arts) Discrete Mathematical Structures 4 hrs. 4 crs. Discrete mathematical topics and concepts with an emphasis on how discrete mathematics can be employed in

computer science. Set theory, logic, algorithms, basic combinatorics, discrete probability, graph theory, mathematical induction, and related topics. Preq: MATH 115, or MATH 121, or MATH 184. 4 hours lecture.

MATH230 (Liberal Arts) Theory of Numbers 4 hrs. 4 crs. Properties of integers, divisibility; prime numbers, congruences, and diophantine equations. Selected topics. Applications of number theory to public key and key exchange cryptological systems. Preq: MATH 122.

MATH243 (Liberal Arts) Combinatorial & Discrete Geometry 3 hrs. 3 crs. A survey of Euclidean and non-Euclidean geometrical ideas primarily from a non-metric perspective, Axiom systems. Distance functions. Basic topics in the theory of graphs; trees, planarity, networks, coloring problems, and Euler's polyhedral formula. Basic topics in convexity, discrete, and computational geometry: Helly's theorem, curves of constant breadth, the Sylvester-Gallai theorem, and Veronoi diagrams. Preq: MATH 122. Not open to students with credit in MATH 241

MATH244 (Liberal Arts) Geometric Structures 3 hrs. 3 crs. A survey of Euclidean and non-Euclidean geometrical ideas primarily from a metrical point of view. Axiom systems, distance functions, polyhedra and tilings, geodesics, configuration theorems, graphs, and geometry of surfaces. Preq: MATH 122. Not open to students with credit in MATH 242

MATH271 (Not Liberal Arts) Mathematics for Elementary School Teachers 4 hrs. 4 crs. Mathematical reasoning, problem-solving, elementary theory, structures and concepts of arithmetic, numeration systems, integers, rational and real numbers, number theory, elementary probability and statistics. Preq: MATH 101, MATH 102 or pass CUNY Math Skills Test. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 122.

MATH272 (Not Liberal Arts) Geometry and Measurement 2 hrs. 2 crs. Mathematical reasoning, plane and solid figures including polygons and polyhedra, similarity and congruence, length, area, surface area and volume, symmetries, translations and rotations, tessellations, networks, systems of measurement including the metric system. Preq: MATH 101, MATH 102 or pass CUNY Math Skills Test. Not open to students with credit in MATH 122. Prospective teachers should take this course in conjunction with MATH 271, although MATH 271 is not a prerequisite.

MATH300 (Liberal Arts) Guided Study of Selected Topics in Mathematics 0 hrs. 1 crs. Individual study under supervision of mathematics faculty. Preq: Junior status, and permission of department. Hours arranged.

MATH301 (Liberal Arts) Guided Study of Selected Topics in Mathematics 0 hrs. 1 crs. Individual study under supervision of mathematics faculty. Preq: Junior status, and permission of department. Hours arranged.

MATH302 (Liberal Arts) Actuarial Mathematics I 1 hrs. 1 crs. Special applications of Calculus and Linear Algebra in Actuarial Science. Preq: MATH 221 and MATH 333. Not credited toward

fulfillment of Mathematics major requirements. This course will prepare students to take Actuarial Examination Part I.

MATH303 (Liberal Arts) Actuarial Mathematics II 1 hrs. 1 crs. Special applications of probability theory and statistics in Actuarial Examination Part II. Preq: MATH 210 and MATH 211 Not credited toward fulfillment of Mathematics major requirements. Availability to be determined.

MATH311 (Liberal Arts) Mathematical Methods for Physical Science 4 hrs. 4 crs. Line and surface integrals: Theorems of Green, Gauss, and Stokes. Fourier series. Transforms such as the Fourier transform, Fast Fourier transform, and Discrete Fourier transform. Orthogonal functions and wavelets. Introduction to complex functions. Preq: MATH 222. Other selected topics.

MATH313 (Liberal Arts) Operations Research 4 hrs. 4 crs. Linear programming, game theory, decision theory, queuing theory, systems dynamics, network theory. Preq: MATH 122. Other related topics in Management and Social Sciences.

MATH321 (Liberal Arts) Finite Differences and Difference Equations 4 hrs. 4 crs. Fundamental concepts of finite differences; interpolation formulae; linear and nonlinear difference equations; theory of interest and annuities. Related topics. Preq: MATH 221 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

MATH333 (Liberal Arts) Linear Algebra 4 hrs. 4 crs. Systems of linear equations, matrices, determinants, Euclidean vector spaces and linear transformations, general vector spaces, basis and dimension, eigenvalues and eigenvectors. Applications to linear programming, least squares approximation, and Markov chains. Preq: MATH 122.

MATH335 (Liberal Arts) Mathematical Logic 4 hrs. 4 crs. Introduction to mathematical logic, propositional logic, first order logic, proof systems, introduction to model theory. Preq: MATH 122. 4 hours lecture.

MATH336 (Liberal Arts) Modern Algebra 4 hrs. 4 crs. Axiomatic theory of groups, rings, and fields; isomorphisms and homomorphisms. Examples from the field of real numbers, modular arithmetic, matrices. Offered alternate Spring semesters. Preq: MATH 333 or permission of instructor. Coreq: MATH 333 or permission of instructor. Not open to students with credit in MATH 332.

MATH395 (Liberal Arts) Numerical Analysis 4 hrs. 4 crs. Analysis and applications of algorithmic methods; study of truncation and propagation errors; interpolation and round off; curve fitting; iterative solutions of nonlinear equations; numerical solutions of differential equations, integration problems, and sets of linear equations. Preq: MATH 191. Coreq: MATH 192, MATH 222. Students are expected to complete several laboratory projects.

MATH400 (Liberal Arts) Independent Study of Selected Topics in Mathematics 0 hrs. 2 crs. Independent study under supervision of mathematics faculty. Preq: Senior status and permission of department. Hours arranged.

MATH401 (Liberal Arts) Independent Study of Selected Topics in Mathematics 0 hrs. 2 crs. Independent study under supervision of mathematics faculty. Preq: Senior status and permission of department. Hours arranged.

MATH410 (Liberal Arts) Mathematical Modeling 4 hrs. 4 crs. The basic principles for construction of mathematical models illustrated using examples from Management Science, Social Science, and Physical Science. Selected mathematical ideas from: Markov chains, game theory, difference equations, and measurement theory. Preq: MATH 122.

MATH423 (Liberal Arts) Advanced Calculus I 4 hrs. 4 crs. The real and complex number systems; topological concepts; theory of functions, limits, continuity, differentiability; theory of integration; vector calculus; functions of several variables, sequences and series. Preq: MATH 222. Other selected topics.

MATH424 (Liberal Arts) Advanced Calculus II 4 hrs. 4 crs. Continuation of Mathematics 423. Preq: MATH 423. Not offered on a regular basis. Availability to be determined by the department.

MATH425 (Liberal Arts) Introduction to Complex Analysis 4 hrs. 4 crs. Complex numbers, analytical functions, elementary functions, contour integration. Cauchy's Theorem, power series. Preq: MATH 423 or permission of instructor. Other selected topics.

MATH426 (Liberal Arts) Introduction to Topology 4 hrs. 4 crs. Introduction to point set topology, fundamental properties of topological spaces; metric spaces, Euclidean spaces, continuous mappings, homeomorphism, separation axioms, compactness, connectedness. Other selected topics. Preq: MATH 423. Not offered on a regular basis. Availability to be determined by the department.

MATH479 (Liberal Arts) History and Philosophy of Mathematics 1 hrs. 1 crs. History of mathematics from ancient times to the present. Different philosophic views of mathematics ranging from formalism to intuitionism, and the relationship of mathematics to physics and the physical world. Contributions from underrepresented groups Preq: MATH 122

MATH481 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH482 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH483 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH484 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent

research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH485 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH486 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH487 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH488 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

MATH489 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. Investigation of a topic of recent research interest in mathematics or the application of mathematics. Preq: MATH 122 [These courses will expose math majors to current developments in mathematics.]

Mathematics Education

MAED572 (Not Liberal Arts) Advanced Methods in High School Math Instruction 7 hrs. 4 crs. An intensive four week summer program for experienced high school math teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in mathematics and in current teaching methods. Preq: Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

MAED573 (Not Liberal Arts) Field Activities in Math Education 6 hrs. 2 crs. A follow-up to Education 572 in which students will attend and participate in workshops at the college and at their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials. Preq: MATH 572. 6 hours field work. Not offered on a regular basis. Availability to be determined by the department.

Medical Technology

HPMT252 (Not Liberal Arts) \$ Introduction Hematology/Phlebotomy 4 hrs. 3 crs. In the hematology section of the course formed elements of the peripheral blood and bone marrow, their

precursors, function, and structure, including manual laboratory tests will be presented and discussed. In the phlebotomy section the students will be introduced to the art of venipuncture as well as capillary puncture. They will be instructed in the use of venipuncture equipment and review different additives most often used when performing venipuncture procedures. Preq: BIO 202, BIO 265 AND CHEM 230, CHEM 235, HPMT 330 hrs lect 2 hrs lab

HPMT330 (Not Liberal Arts) \$ Human Anatomy and Physiology for Clinical Lab Scientists 4 hrs. 3 crs. This course introduces the student to the structure and function of all human organ systems. The pathophysiology of representative organ and systemic diseases will be discussed. Preq: BIO 202, CHEM 230/ CHEM 235 hours lecture, 2 hours laboratory.

HPMT332 (Not Liberal Arts) \$ Tissue Techniques 3 hrs. 2 crs. Students will learn how to sample, process, embed, section and stain tissues. The chemical rationale for various staining procedures will be discussed. Preq: BIO 202, CHEM 230/CHEM 235, HPMT 330. Coreq: BIO 202, CHEM 230/CHEM 235, HPMT 330. hour lecture, 2 hours lab

HPMT341 (Not Liberal Arts) \$ Clinical Immunoserology Techniques 3 hrs. 2 crs. This course will cover innate and adaptive immunity (humoral and cell-mediated immune defenses). Immune disorders will be addressed as well as tumor and transplant immunology. Techniques to identify specific immune mediators and infectious diseases will be examined. Students will perform manual lab tests to assess one's immune status. Preq: BIO 265 and HPMT 330 Coreq: HPMT 351 One hour lecture, 2 hours lab.

HPMT343 (Not Liberal Arts) \$ Immuno-Hematology and Blood Banking 4 hrs. 3 crs. This course covers the collection, processing, preparation, preservation, screening and distribution of whole blood, components, and derivatives. The student will study the genetics related to erythrocyte and histocompatibility antigens. In the lab, the students will identify cell antigens and the corresponding antibodies. They will discuss cross-matching techniques and detection of hemolytic disorders. Preq: HPMT 252, HPMT 330 hours lecture, 2 hours laboratory.

HPMT351 (Not Liberal Arts) \$ Clinical Chemistry 5 hrs. 4 crs. This course covers the clinical significance of abnormal concentrations of serum analytes (eg., carbohydrate, proteins, hormones, enzymes, electrolytes, blood gases, tumor antigens, therapeutic drugs, etc.). In the lab, the chemical principles behind the most common methodologies are discussed. Students will perform various manual spectrophotometric assays. Preq: BIO 202, and CHEM 230, CHEM 235, HPMT 330 Coreq: BIO 202, and CHEM 230, CHEM 235, HPMT 330

HPMT352 (Not Liberal Arts) \$ Advanced Hematology 4 hrs. 3 crs. This course presents the causes and defining characteristics of various erythrocyte and leucocyte disorders, eg., anemias, acute and chronic leukemias, lymphomas, myeloma, etc. Students will study the microscopic findings and related physiologic changes. Students will learn how to interpret data and histograms provided by automated cell analyzers. Preq: CHEM 230, CHEM 235 and HPMT 252 and HPMT 330 hours lecture, 2 hours laboratory.

HPMT353 (Not Liberal Arts) Medical Mycology and Parasitology 4 hrs. 3 crs. The proper collection and processing of human specimens for detection and identification of clinically significant fungi and parasites will be presented. In the lab the students will study the morphological characteristics of pathogenic yeast, molds, protozoans and worms. Life cycles and epidemiology will be discussed briefly. Preq: BIO 202, BIO 265 and CHEM 230, CHEM 235 hours lecture, 2 hours laboratory.

HPMT354 (Not Liberal Arts) Coagulation 3 hrs. 3 crs. The mechanisms of Coagulation/Hemostasis will be introduced and discussed. Evaluation of normal and disease states in blood coagulation will be discussed after the presentation of clinical cases. The coagulation cascade theory, fibrinolytic system, and anticoagulant therapies will be presented. Preq: HPMT 252 and CHEM 230, CHEM 235

HPMT356 (Not Liberal Arts) Microbiology & Immunology 2 hrs. 2 crs. Pathogenic bacteria, fungi, protozoa, viruses, rickettsiae and helminths are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control. Includes the human immune system, resistance. Preq: All prerequisites required for admission into the PA Program and official acceptance into the program.

HPMT357 (Not Liberal Arts) \$ Clinical Bacteriology 5 hrs. 4 crs. This course will discuss appropriate specimen collection and processing for identification of bacterial disease agents. The students will learn the microscopic and biochemical testing required for speciation of pathogenic bacteria. They will be introduced to both manual and automated methods for speciation and antibiotic susceptibility testing. Preq: BIO 265, CHEM 230, CHEM 235 AND HPMT 330 hours lect, 2 hours laboratory

HPMT358 (Not Liberal Arts) Diagnostic Techniques in Molecular Pathology 3 hrs. 3 crs. This course presents the applications of biotechnology methods to diagnose disease. These techniques are used to define the composition of DNA and RNA to allow for detection and identification of microbial pathogens, genetic disorders, and malignant cells. This course will introduce students to gene probe applications, polymerase chain reaction (PCR) technology, and gene sequencing. Proteomics will also be addressed with a focus on flow cytometry applications. Preq: BIO 265, CHEM 230, 235 and HPMT 252 and HPMT 330 hours lecture

HPMT360 (Not Liberal Arts) Principles of Clinical Toxicology 2 hrs. 2 crs. The course is intended to acquaint the student with the chemical composition, mechanism of action, and detection of and antidotes for toxic substances and medicinals as encountered in the clinical laboratory. Emphasis will be on the broad aspects of industrial and environmental toxicology related to testing facilities, regulatory processes and toxicity testing protocols. Preq: BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232.

HPMT361 (Not Liberal Arts) Urinalysis and Body Fluids 3 hrs. 2 crs. This course will teach the students how to assay the cellular and chemical composition of body fluids such as urine, cerebrospinal fluid, amniotic fluid, pleural fluid, semen, and synovial fluid. The clinical significance of abnormal findings will be discussed. Students

will learn to handle and analyze urine and non-blood body fluids while keeping the laboratory safe from infectious agents Preq: BIO 265, CHEM 230, CHEM 235 and HPMT 252 and HPMT 330

HPMT459 (Not Liberal Arts) Internship for Clinical Laboratory Sciences I 0 hrs. 5 crs. This is the first 15 week semester of a two-semester clinical internship; full-time (35 hrs./wk) at an affiliated hospital with rotation periods in various sections of the laboratory. Preq: Students must have successfully completed all other requirements for graduation, have a GPA of at least 2.5 in Medical Technology courses, have an overall GPA of at least 2.5 and permission of the Director of the Clinical Lab Sciences program. Students will receive a letter grade based on written, practical and oral exams.

HPMT460 (Not Liberal Arts) Internship for Clinical Laboratory Sciences II 0 hrs. 5 crs. This is the first 15 week semester of a two-semester clinical internship; full-time (40 hrs./wk) at an affiliated hospital with rotation periods in various sections of the laboratory. Preq: Students must have successfully completed all other requirements for graduation, have a GPA of at least 2.5 in Medical Technology courses, have an overall GPA of at least 2.5 and permission of the Director of the Clinical Lab Sciences program. Students will receive a letter grade based on written, practical and oral exams.

HPMT498 (Not Liberal Arts) Independent Study in Medical Technology 3 hrs. 3 crs. Investigation of a special project under the guidance of a faculty member. Preq: Senior status and permission of instructor.

HPMT499 (Not Liberal Arts) Advanced Practicum in Medical Technology 3 hrs. 3 crs. Independent investigation of a special project within the clinical laboratory area practical and/or theoretical. Preq: Senior status and permission of instructor.

HPMT362 (Not Liberal Arts) Seminar for Professional Issues in Clinical Laboratory Sciences 2 hrs. 2 crs. An introduction to professional issues in the clinical laboratory sciences, including governmental regulations, personnel management, financial management, medical ethics, quality assurance, etc. Preq: HPMT 252 and HPMT 351 Coreq: HPMT 252 and HPMT 351

Military Science

MSci101 (Not Liberal Arts) Introduction to Leadership 1 3 hrs. 3 crs. This is an entry-level course exploring basic tactical and leadership concepts simultaneously providing students with an introduction to the U.S. Army and a familiarization with fundamentals of leadership that are applicable outside the military. Students will develop basic knowledge and skills needed for personal leadership competence sought after in military or civilian career fields. Open to all students and does not require an obligation to the U.S. Army. Participation in the Leadership Lab and field trips are required.

MSci102 (Not Liberal Arts) Introduction to Leadership 2 3 hrs. 3 crs. This is an entry-level survey course to introduce students to the United States Army and its Reserve Officer Training Corps

(ROTC). Topics include the organizational structure of the military, procedures followed in military activities and types of skills needed to succeed in the military. The aim of the course is to use small unit scenarios as a vehicle to study decision-making, planning and leadership. Open to all students and does not require an obligation to the U.S. Army. Preq: MSci 101 or Departmental permission Participation in the Leadership Lab and field trips are required.

MSci201 (Not Liberal Arts) Foundations of Leadership 1 3 hrs. 3 crs. This is an entry-level survey course to introduce students to leadership theory and skills at the small group / unit level. It uses the study of U.S. Army squad tactics to emphasize multiple leadership techniques. Additionally, it examines the traits of effective leaders with emphasis on their communication skills. Students will understand that different circumstances and group dynamics may require an adjustment of style to accomplish a task. Effective communication skill is highlighted throughout. Preq: Military Science 102 or Department permission required Coreq: Military Science 102 or Department permission required Open to all students and does not require an obligation to the U.S. Army. Participation in the Leadership Lab and field trips are required.

MSci301 (Not Liberal Arts) Adaptive Team Leadership 1 3 hrs. 3 crs. This is a closed course for students in their third year of the Military Science program. Students study, practice, and apply the fundamentals of Army leadership, officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. Theory, skills and training to plan, and lead a team or squad in the execution of a practical exercise, a Leadership Lab, or during a Situational Training Exercise (STX) are part of the coursework. MSci 300 and 400 courses are only open to those students who are contracted with the U.S. Army ROTC. * Participation in the Physical Training, Leadership Lab and field trips are required. Preq: Military Science 202 or assessed equivalency based on prior military service / Contracted Cadets Only Coreq: Military Science 202 or assessed equivalency based on prior military service / Contracted Cadets Only Contracted Cadets Only. * MSci 300 level students must officially "contract" as an ROTC cadet – entering a commissioning program with the end state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci302 (Not Liberal Arts) Adaptive Team Leadership 2 3 hrs. 3 crs. This is a closed course for students in their third year of the Military Science program. Students apply Army leadership methods to situational training exercises in order to develop their own effective leadership styles. Students will exercise Army values and ethical decision-making at the squad and platoon levels. At the conclusion of the course, students will possess the required leadership skills to plan and issue orders necessary to lead a small unit Preq: Military Science 301 or assessed equivalency based on prior military service / Contracted Cadets Only Coreq: Military Science 301 or assessed equivalency based on prior military service / Contracted Cadets Only MSci 300 and 400 courses are only open to those students who are contracted with the U.S. Army ROTC. Participation in the Leadership Lab, Physical Training and field trips are required. MSci 300 level students must officially "contract" as an ROTC cadet – entering a commissioning program with the end

state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci401 (Not Liberal Arts) Adaptive Leadership 1 3 hrs. 3 crs. This is a closed course for students in their final year of ROTC training. The course trains college seniors in the skills needed for success as a 2nd Lieutenant in the U.S. Army. Topics covered include ethics, planning, briefing and running training events. Students are given instruction in the theory behind Army training methods and then apply these techniques through individual or group projects aimed at providing training for the lower level ROTC students. Students will plan, and conduct the laboratory training component attended by the first through third students as practical exercises to their classroom instruction. Preq: Military Science 302/Contracted Cadets Only Coreq: Military Science 302/Contracted Cadets Only Participation in the Leadership Lab Physical Training and field trips are required. * MSci 400 level students must officially "contract" as an ROTC cadet – entering a commissioning program with the end state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci402 (Not Liberal Arts) Adaptive Leadership 2 3 hrs. 3 crs. This is a closed course for students in their final year of ROTC training. The course trains college seniors in the skills needed for success as a 2nd Lieutenant in the U.S. Army. Topics covered include non-commissioned officer relationships, effective military writing and speaking, joint ethics regulations, and the code of conduct. Students are given instruction in the theory behind Army training methods and then apply these techniques through individual or group projects aimed at providing training for the lower level ROTC students. Students will plan, and conduct the laboratory training component attended by the first through third students as practical exercises to their classroom instruction. Preq: Military Science 401/Contracted Cadets Only Coreq: Military Science 401/Contracted Cadets Only Participation in the Physical Training, Leadership Lab and field trips are required. *

Music

MUS250 (Liberal Arts) African -American Music 3 hrs. 3 crs. Survey of the music of African-Americans from slavery to the present; emphasis on its unique features and relevant topics plus its contribution to U.S. and global culture

MUS110 (Liberal Arts) Basic Theory 3 hrs. 3 crs. Introduction to the fundamentals of music theory and its notation. Topics include scales, time signatures, key signatures, intervals, and chords. Intended for non-majors. Intended for non-majors.

MUS111 (Liberal Arts) Basic Theory II 3 hrs. 3 crs. Continuation of Music 110. Topics include seventh-chords, chord progressions, modulation, song writing, and theory. Preq: MUS 110 or placement by examination.

MUS136 (Liberal Arts, NOT Liberal Arts for Accounting Major) Chorus I 4 hrs. 2 crs. Study and performance of selected classical choral works. Preq: Department permission required.

MUS236 (Liberal Arts, NOT Liberal Arts for Accounting Major) Chorus II 4 hrs. 2 crs. Study and performance of selected classical choral works. Preq: MUS 136

MUS336 (Liberal Arts, NOT Liberal Arts for Accounting Major) Chorus III 4 hrs. 2 crs. Study and performance of selected classical choral works. Preq: MUS 236

MUS436 (Liberal Arts, NOT Liberal Arts for Accounting Major) Chorus IV 4 hrs. 2 crs. Study and performance of selected classical choral works Preq: MUS 336

MUS141 (Liberal Arts, NOT Liberal Arts for Accounting Major) Class Instruction in Piano I 1 hrs. 1 crs. The study of keyboard literature to suit the level of the individual student. Preq: MUS 110 or permission of department

MUS241 (Liberal Arts, NOT Liberal Arts for Accounting Major) Class Instruction in Piano II 1 hrs. 1 crs. The study of keyboard literature to suit the level of the individual student. Preq: MUS 141

MUS425 (Liberal Arts) Composition I 3 hrs. 3 crs. Original writing in various styles, with emphasis on the small forms. Microcomputers, MIDI interfaces, and digital sampling systems are used to perform compositions. Preq: MUS 323

MUS225 (Liberal Arts) Computer Music 3 hrs. 3 crs. Introduction to the use of computers for music production. Topics include digital sampling and multi-track recording.

MUS422 (Liberal Arts) Conducting 3 hrs. 3 crs. Basic principles of conducting and score reading; analysis of selected choral and orchestral works. Preq: MUS 323

MUS210 (Liberal Arts) Ear Training I 3 hrs. 2 crs. Sight singing and ear training using moveable do Preq: MUS 110 or permission of department

MUS310 (Liberal Arts) Ear Training II 3 hrs. 2 crs. Advanced sight singing, ear training, and rhythm reading; reading transposed parts from orchestral scores; changing meters; atonality. Preq: MUS 210.

MUS323 (Liberal Arts) Form & Analysis 3 hrs. 3 crs. Examines the structure of 18th-, 19th-, and 20th-century Western art music, including some 20th- and 21st-century popular music. Includes critical analysis of major works. Preq: MUS 223 Not open to students with credit in MUS 320

MUS131 (Liberal Arts, NOT Liberal Arts for Accounting Major) Gospel Choir I 4 hrs. 2 crs. An introduction to the performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: Department permission required

MUS231 (Liberal Arts, NOT Liberal Arts for Accounting Major) Gospel Choir II 4 hrs. 2 crs. Performance of more-complex music for mixed voices focusing on African-American sacred and secular traditions Preq: MUS 136

MUS331 (Liberal Arts, NOT Liberal Arts for Accounting Major) Gospel Choir III 4 hrs. 2 crs. Intermediate performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: MUS 231

MUS431 (Liberal Arts, NOT Liberal Arts for Accounting Major) Gospel Choir IV 4 hrs. 2 crs. Advanced performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: MUS 331

MUS135 (Liberal Arts, NOT Liberal Arts for Accounting Major) Guitar Workshop I 4 hrs. 2 crs. Basic techniques of guitar performance. Students employ principles of improvisation on the guitar, and are introduced to the techniques of ensemble playing. Preq: Department permission required

MUS235 (Liberal Arts, NOT Liberal Arts for Accounting Major) Guitar Workshop II 4 hrs. 2 crs. Further techniques of guitar performance. Students employ principles of improvisation on the guitar, and are introduced to the techniques of more-complex ensemble playing. Preq: MUS 131

MUS335 (Liberal Arts, NOT Liberal Arts for Accounting Major) Guitar Workshop III 4 hrs. 2 crs. Intermediate techniques of guitar performance Preq: MUS 235

MUS435 (Liberal Arts, NOT Liberal Arts for Accounting Major) Guitar Workshop IV 4 hrs. 2 crs. Advanced techniques of guitar performance Preq: MUS 335

MUS223 (Liberal Arts) Harmony 3 hrs. 3 crs. The study of diatonic harmony. Focuses on developing analytical skills to enhance appreciation, performance, and composition of Western music of the 18th and 19th centuries. Not open to students with credit inæMUS 220. Preq: MUS 110 or permission of department Not open to students with credit inæMUS 220.

MUS253 (Liberal Arts) History of Jazz 3 hrs. 3 crs. Survey of the history of jazz from its origins to the present with a focus on the major periods (such as ragtime, New Orleans, swing, bebop, Latin jazz, thirdæstream, free, fusion, and today) and major jazz musicians

MUS350 (Liberal Arts) History of Western Music I 3 hrs. 3 crs. The history of Western music from Gregorian Chant through the Baroque Era with emphasis on the major musical styles and composers during these periods. This is a writing intensive course. Preq: ENG 125 This is a writing intensive course.

MUS351 (Liberal Arts) History of Western Music II 3 hrs. 3 crs. The history of Western music from the Classical through the Romantic Eras with emphasis on the major musical styles and composers during these periods.

MUS450 (Liberal Arts) History of Western Music III 3 hrs. 3 crs. The history of Western art music during the twentieth century and beyond with emphasis on the major musical styles and composers of the period.

MUS490 (Liberal Arts) Independent Study 0 hrs. 3 crs. Investigation of selected musical sources and writings on music.

Individualized projects or performances Preq: Department permission required.

MUS420 (Liberal Arts) Instrumentation 3 hrs. 3 crs. Scoring for small and large instrumental ensembles, including orchestra, jazz ensemble, and band. Computers are used to perform arrangements Preq: MUS 323

MUS270 (Liberal Arts) Introduction to Ethnomusicology 3 hrs. 3 crs. An introduction to ethnomusicological theories and practices. Musics will be studied within their cultural and historical contexts. Regions of investigation may include (but are not limited to): Asia, Africa, the Middle East, the Caribbean, South America, and Oceania. Not open to students with credit in ANTH 270. Cross-listed as ANTHæ270. This is a writing intensive course. Preq: ENG 125 Not open to students with credit in ANTH 270. Cross-listed as ANTH 270. This is a writing intensive course.

MUS101 (Not Liberal Arts) Introduction to Music History 3 hrs. 3 crs. The appreciation of Western music through recordings played in class. Forms may include symphony, opera, concerto, and others. Intended for non-majors. Not open to students with credit in MUS 103.

MUS139 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Ensemble I 4 hrs. 2 crs. Performance of basic repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: Department permission required.

MUS239 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Ensemble II 4 hrs. 2 crs. Performance of more-complex repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: MUS 139 or MUS 146

MUS339 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Ensemble III 4 hrs. 2 crs. Performance of intermediate repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: MUS 239 OR MUS 246

MUS439 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Ensemble IV 4 hrs. 2 crs. Performance of advanced repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: MUS 339

MUS146 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Improvisation I 4 hrs. 2 crs. Introduction to the basic principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions,

analysis, and reconstruction. Preq: Department permission required

MUS246 (Liberal Arts, NOT Liberal Arts for Accounting Major) Jazz Improvisation II 4 hrs. 2 crs. Intermediate-to-advanced principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction Preq: MUS 139 or MUS 146.

MUS461 (Liberal Arts) Jazz Style and Techniques 3 hrs. 3 crs. Detailed investigation into the musical styles of jazz, with special emphasis on the major jazz musicians who have helped to create and shape them. Preq: MUS 323

MUS291 (Liberal Arts) Keyboard Harmony 3 hrs. 1 crs. Harmonization of melodies, chord progressions, developing accompaniment skills in popular music and jazz, including the technique of modulation at the keyboard. Preq: MUS 223 and permission of department.

Natural Science

NS370 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Preq: ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS371 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Preq: ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS470 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Preq: ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS471 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Preq: ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

Nursing

NURS101 (Not Liberal Arts) Nursing Process and Pharmacology 2 hrs. 2 crs. The Nursing Process will be utilized as the problem solving approach in providing students with the fundamental concepts and skills needed for the safe and accurate administration of pharmacologic agents to client systems across the life process. Basic mathematical operations and measurements systems will be utilized for calculating drug dosages. Emphasis will be placed on safety measures and client education. Legal, moral and ethical responsibilities in professional nursing practice will be examined. Preq: Pass program's Math pre-test with a grade of 80% or better without calculator. Department permission required.

NURS202 (Not Liberal Arts) Nursing Process and Pharmacotherapeutics 3 hrs. 3 crs. The course utilizes a systems approach and draws on information from multiple disciplines to build on fundamental knowledge of pharmacology. Students are provided with an in-depth examination of the complex interrelationships between pharmacotherapeutics, pharmacokinetics, pharmacodynamics and pathophysiologic processes. Emphasis is placed on pharmacotherapeutics, as it relates to critical thinking, client education, life-span issues, cultural considerations and evidence-based clinical guidelines in nursing practice. Preq: NURS 101 and Department permission required. Coreq: NURS 23 and NURS 21.

NURS203 (Not Liberal Arts) Health Assessment and Wellness Promotion 5 hrs. 4 crs. The Nursing Process and Intersystem framework will be utilized to assist the student in developing biopsychosocial/cultural health assessment skills as a basis for diagnosing and treating human responses to actual or potential health problems. Teaching/ Learning principles will be utilized in assisting client systems with greater potential for wellness to maintain high level wellness. College laboratory experiences are provided to assist the student in developing health assessment and teaching/learning skills. Preq: Departmental permission required. 2hours college laboratory, 3 hours lecture.

NURS210 (Not Liberal Arts) Fundamentals of Nursing Practice 9 hrs. 5 crs. The course integrates principles presented in the natural, behavioral sciences and humanities, to introduce the student to professional nursing practice. The Nursing Process and General Systems Theory are utilized to assist the student in developing basic nursing skills and therapeutic communication techniques to promote and maintain high-level wellness in

multicultural individual client system in a variety of settings. Ethical, moral and legal aspects related to client-nurse relationships are addressed. Principles of nursing research and evidence-based practice are highlighted as the student acquires selected nursing skills. Preq: NURS 101 and Department permission required. Coreq: NURS 22 and NURS 23. 3.0 Hours Theory; 6 Hours Clinical laboratory.

NURS301 (Not Liberal Arts) \$ Values in Transition: Perspectives of Professional Nursing 4 hrs. 4 crs. This course introduces students to the structure of the discipline of nursing, selected theoretical and conceptual models and their application to nursing practice, research, and education as a foundation for socialization/re-socialization into the professional nursing practice. Preq: Department permission required 4 hours lecture. This is a Writing Intensive Course. This may be offered as an asynchronous online writing intensive course

NURS310 (Not Liberal Arts) Nursing Process: Nursing Care of the Child-bearing Client/Family System 18 hrs. 5 crs. The Nursing Process, General Systems and Family Theories are utilized in providing students with the theoretical basis and clinical skills needed to provide culturally sensitive care to client/family systems during the child-bearing/ child-rearing stages of the life process. Students relate research findings to provide evidence based nursing interventions with focus on client education. Legal, moral and ethical considerations are explored. Primary, secondary and tertiary levels of prevention are examined with emphasis on the primary level. Clinical laboratory learning experiences are designed to provide opportunities for the student to function in variety of settings including on-campus simulation, in-patient units, ambulatory and community health care settings Preq: NURS 202, NURS 203, NURS 210 and Department permission required. 7 weeks, 6 hrs Lecture; 12 hours clinical

NURS314 (Not Liberal Arts) Management and Leadership in Professional Nursing/Client Intersystems 3 hrs. 3 crs. This course introduces the process of decision-making, leadership, management, change, collaboration and advocacy as a basis for planning strategies which facilitate the professional nurse-individual/family/group intersystems in the promotion and maintenance of health. Topics such as quality assurance and peer review will be analyzed. Preq: NURS 301. Not open to students with credit in NURS 304.

NURS315 (Not Liberal Arts) Professional Nurse-Family and Community Intersystem I 9 hrs. 6 crs. The nursing and epidemiological processes are utilized to initiate change in professional nurse interactions of multi-cultural family/community-environment intersystems throughout the life process for health maintenance and promotion. Theories related to group dynamics are explored to reinforce leadership/management, teaching/learning and decision-making skills. Clinical laboratory experiences are provided in a variety of community setting. Preq: NURS 203, NURS 301. Not open to students with credit in NURS 305. 3 hours lecture, 6 hours field work.

NURS320 (Not Liberal Arts) \$ Deviations in Physiological Functioning I: Nursing Interventions for the Adult/Family

client systems 16 hrs. 8 crs. This course utilizes the Nursing Process and General System Theory to focus on caring for the multicultural individual/family client system who is experiencing deviations from wellness. Principles presented in the natural and behavioral sciences, humanities and nursing theory are integrated to assist the students in synthesizing knowledge that requires interventions to restore the client to his/her optimum level of wellness or to a peaceful death. Levels of prevention are examined with emphasis on the secondary level. Ethical, moral and legal issues in nursing practice are addressed. Nursing research and evidence-based practice are incorporated into the care of individual/family system Preq: Department permission required. 5Hours Lecture;11 Hours Clinical laboratory.

NURS340 (Not Liberal Arts) \$ Nursing Care of Children: Infancy to Adolescence 18 hrs. 5 crs. The Nursing Process and General Systems theory are utilized in providing students with the theoretical knowledge and clinical skills needed to provide culturally sensitive care to children & their families from infancy through late adolescence. The course facilitates integration of the concepts of communication and growth and development in providing primary, secondary and tertiary levels of intervention to children and their families who are experiencing disruption in their biopsychosocial integrity. Preq: Nursing 202, 203, 210, 320 and Departmental Permission Coreq: NURS 314 and NURS 32. 7 weeks, 6 hrs Lecture; 12 hours clinical

NURS405 (Not Liberal Arts) Nursing Approaches for Clients Experiencing Crisis Situations 3 hrs. 3 crs. The Nursing Process and Intersystem framework will be used to evaluate populations who are experiencing actual or potential crises situations. Contemporary concepts of community health nursing, crisis theory, developmental theory, and nursing theory are integrated to facilitate a higher level of state growth (the dying process) are incorporated. Preq: Departmental permission required. hours lecture, 6 hours laboratory.

NURS406 (Not Liberal Arts) Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution 3 hrs. 3 crs. Integrative knowledge of the liberal arts, nursing theory and general systems theory are utilized to analyze the interrelatedness of selected societal and community systems and the health of human systems. The concepts of power, politics, policy and change are employed to explore the emerging and evolving roles of the professional nurse as a catalyst for planned change to improve health/nursing care delivery and the health of human systems. Preq: NURS 405 and written permission of the Director of the Nursing Program. Coreq: NURS 45 and written permission of the Director of the Nursing Program. 3 hours lecture. Selected field trips (i.e., health care facility, educational institutions, Supreme Court, professional nursing association, etc.)

NURS407 (Not Liberal Arts) Research in Professional Nursing Practice 3 hrs. 3 crs. This course designed to provide students the opportunity to synthesize knowledge and skills from the natural and behavioral sciences, humanities, and nursing theory in order to understand the research process and its importance in guiding nursing practice and improving patient care. The student will identify a researchable problem; will critique published nursing

research studies; and will perform a detailed literature search. Emphasis will be placed on identifying the best available research evidence and integrating it with clinical nursing decision-making. This is a writing intensive course and may be offered as an asynchronous online course. Preq: NURS 405, NURS 406 and department permission. This is a Writing Intensive Course and may be offered as an asynchronous online course

NURS415 (Not Liberal Arts) \$ Professional Nurse-Family Group and Community Intersystems-Generic 18 hrs. 6 crs. The nursing and epidemiological processes are utilized to initiate change in professional nurse interactions with multicultural family/group/community - environment inter-systems throughout the life process, to facilitate health maintenance and promotion. Theories related to group dynamics are explored to reinforce leadership/management, teaching/learning and decision-making skills. Preq: Nursing 314, 320, 406, 420, and Departmental permission required 7 weeks, 6 hrs lecture; 12 hrs clinical

NURS420 (Not Liberal Arts) \$ Deviations in Physiological Functioning II: Nursing Interventions for the Adult/Family client systems 16 hrs. 8 crs. This course utilizes the Nursing Process and General System Theory to focus on caring for the multicultural individual/family client system who is experiencing deviations from wellness. Principles presented in the natural and behavioral sciences, humanities and nursing theory are integrated to assist the students in synthesizing knowledge that requires interventions to restore the client to his/her optimum level of wellness or to a peaceful death. Levels of prevention are examined with emphasis on the secondary level. Ethical, moral and legal issues in nursing practice are addressed. Nursing research and evidence-based practice are incorporated into the care of individual/family system Preq: Department permission required 5Hours Theory; 11 Hours Clinical laboratory

NURS430 (Not Liberal Arts) \$ Nurse - Client Intersystems: Psychiatric/Mental Health Nursing 14 hrs. 4 crs. The course utilizes the Nursing Process and General Systems Theory in providing students with the theoretical knowledge and skills to promote the mental health of multicultural client systems throughout the life process. Commonly occurring and complex mental disorders affecting individual, family and group client systems are examined. Primary, secondary and tertiary levels of prevention are addressed. Students will use therapeutic communication techniques as they interact with client systems with mental disorders. Preq: NURS 314, NURS 320 and NURS 340. Department permission required. Coreq: NURS 42. 2.5 Hours lecture; 4.5 Hours Clinical

NURS302 (Not Liberal Arts) Pharmacology for Nurses 3 hrs. 3 crs. The course utilizes a systems approach and draws on information from multiple disciplines to build on fundamental knowledge of pharmacology. Students are provided with an in-depth examination of the complex interrelationships between pharmacotherapeutics, pharmacokinetics, pharmacodynamics and pathophysiologic processes. Emphasis is placed on pharmacotherapeutics, as it relates to critical thinking, client education, life-span issues, cultural considerations and evidence-

based clinical guidelines in nursing practice. Preq: Nurs 320 Coreq: Nurs 320

Occupational Therapy

OT313 (Not Liberal Arts) Fundamentals of Occupational Therapy 3 hrs. 3 crs. An introduction to the profession of Occupational Therapy and its various theoretical bases; examination of fundamental principles of Occupational Therapy, such as awareness, goal-oriented activities, the collaborative experience, self-actualization and the needs of the groups. Departmental permission required.

OT315 (Not Liberal Arts) Functional Human Anatomy 5 hrs. 4 crs. Exploration of gross structure and systems of the human body, skeletal, muscular, nervous, circulatory, respiratory, endocrine, and integumentary systems. 2 hours lecture, 3 hours laboratory.

OT316 (Not Liberal Arts) Functional Human Physiology 5 hrs. 4 crs. Exploration of the physiological functioning of the human body and its relationship to health; skeletal, muscular, nervous, circulatory, respiratory, endocrine, and integumentary systems. 2 hours lecture, 3 hours laboratory.

OT318 (Not Liberal Arts) Clinical Kinesiology 5 hrs. 4 crs. This course is designed for occupational therapy majors with an established knowledge of anatomical structures. This course provides an introduction to the concepts of: biomechanics, study of human motion, gravity, linear force, rotary force, and torque. These basic concepts are applied to the musculoskeletal regions of the: head, torso, shoulder complex, elbow complex, forearm, wrist, hand, and lower extremities. The laboratory experiences challenge students to apply these concepts in the analysis, synthesis and evaluation of human movement. Coreq: OT 318L hours lecture, 2 hours laboratory.

OT319 (Not Liberal Arts) Common Medical Conditions: Impact on Occupational Performance 3 hrs. 3 crs. In this course students will examine the impact various medical conditions have on body structure and function and the potential impact these conditions have on occupational performance. Students will look at the dynamic interactions between body systems and environments to better understand what, if any constraints are caused by the more common medical conditions with which Occupational Therapist's come in contact. Preq: Department permission required.

OT321 (Not Liberal Arts) Occupational Analysis 4 hrs. 3 crs. This class will introduce students to the OT Practice Framework as a basis for intervention. Students will look at occupational analysis through all performance areas, as well as grading and adaptation of activities. They will also explore the relationship between environment and performance demands, issues of context, and cultural implications. The impact of disability on occupational performance will be examined and assessment tools including ADL, IADL, work, play will be introduced. The lab. component will include, but not be limited to, application of concepts and practice of task analysis and task modification techniques as a basis for

occupational therapy intervention. Preq: Department permission required. 2 hours lecture, 2 hours laboratory.

OT322 (Not Liberal Arts) Occupation Through the Life Span 3 hrs. 3 crs. Students will learn about the dynamic interaction between culture, human and non-human environment in shaping how and what people do throughout their life span.

OT403 (Not Liberal Arts) Advanced Occupational Analysis 4 hrs. 3 crs. Students further develop their understanding of the multifaceted dimensions of occupational analysis as a basis for practice. The lab component will include, but not limited to, application of concepts and practice of task analysis and task modification techniques as a basis for occupational therapy intervention.

OT411 (Not Liberal Arts) Occupational Therapy Process I: Pediatric Intervention 5 hrs. 4 crs. This is a course on Occupational Therapy treatment for pediatric populations. Interventions emphasize children with motor, cognitive pervasive developmental delay and learning disability. Contrast is made between traditional hierarchical models and the current dynamic system theory view of developmental process and skill acquisition. Emphasis is on application of child centered and occupational performance models of treatment. Field observations and experimental learning will be used to augment discussion of professional issues in practice. Lab component will include but not limited to application of concepts and practice of treatment techniques. Preq: Department permission required. hrs Lecture, 2 hours laboratory.

OT417 (Not Liberal Arts) Research Methods 4 hrs. 3.5 crs. This course will introduce the occupational therapy student to qualitative and quantitative research design, statistical models and tests, research methodology and literature retrieval sources. The course will increase students' knowledge of descriptive and inferential statistics, parametric and nonparametric tests and their application in occupational therapy research. The emphasis in the course will be on interpreting and utilizing research results, understanding statistics and the impact of research on theory and clinical practice. Preq: MATH 111 and Department Permission Required The 1 hour recitation will be devoted to enhancing student's statistical knowledge.

OT423 (Not Liberal Arts) \$ Collaboration in Occupational Therapy 4 hrs. 4 crs. Introduction to problems and methods involved in the helping process in Occupational Therapy. This course will facilitate development of professional behaviors: oral and written communication skills, self-awareness, attitudes and values. Student will also gain an appreciation and understanding of diversity factors and lifestyles choices in contemporary society. The course will also explore attitudes about self help and disability and will facilitate problem solving skills and group process methods. An experiential learning component of the class will provide opportunities for students to participate in activities in order to practice tools and techniques of collaboration. Community experiences will be related to course content. This will allow for students to evaluate their own learning and practice professional behaviors needed for future practice. Course content will focus

on health promotion, prevention and wellness. Preq: Department Permission Required

OT432 (Not Liberal Arts) Neuroscience 3.5 hrs. 3.5 crs. This is an undergraduate course for first semester, second year OT major students. Content is focused on neuroanatomical and neurophysiological systems, emphasizing motor and sensory processes. Diseases and lesions of the central, peripheral, and autonomic nervous systems are identified and associated with their impact on human function. Preq: Departmental permission required.

OT446 (Not Liberal Arts) Independent Study of Selected Topics in Occupational Therapy 3 hrs. 3 crs. This seminar is designed for students who have, for example, completed their pediatric coursework (OT 411). Students will have the opportunity to develop more specialized skills than typical entry-level coursework provides in this area of practice under the supervision of Occupational Therapy faculty. Readings, web searches, weekly assignments will be given by professor and quality evaluated. Major papers- presentations (treatment plans, in-service presentations) will be discussed with student. Research ideas in preparation for the required graduate project will be explored. Preq: Department permission required. Meeting times will be determined by the professor and student. The course is not offered on a regular basis, availability to be determined by the department.

OT504 (Not Liberal Arts) Advanced Neuroscience & Cognitive Rehabilitation 5 hrs. 4 crs. This is a graduate level course for occupational therapy students in the second semester of their second year. The course presents current concepts of the relationship between brain function and perception/cognition needed for functional behavior. Focus is on visual, attention, memory and executive processes. Content is addressed through literature, cases, and include studies of lesion localization and neuroimaging for clinical understanding. Clinical applications are made using appropriate clinical assessment tools, interpreting the impact of cognitive disorder in areas on occupation. The laboratory component will include but not be limited to application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hr lecture, 2 hr lab

OT505 (Not Liberal Arts) \$ OT Process I Physical Intervention 5 hrs. 4 crs. This course prepares students to develop and provide occupational therapy interventions for adults with physical disabilities, focusing on assessment and interventions with patients with orthopedic and medical conditions. Students apply knowledge from prior coursework including anatomy, physiology, and medical pathologies, and utilize clinical problem solving and research for practice. Students participate in part-time clinical experiences that link coursework with practice. This course prepares the students for Fieldwork II experiences and practice in adult rehabilitation settings. The laboratory component will include, but not be limited to, application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hr lecture, 2 hr lab

OT506 (Not Liberal Arts) \$ OT Process II Physical Intervention 5 hrs. 4 crs. This course prepares students to develop

and provide occupational therapy interventions for adults with physical disabilities. It focuses on assessment and interventions with patients having neurological conditions and complex medical Diagnoses. Students apply knowledge from coursework and utilize clinical problem solving and research for practice. Students learn methods of evaluation, remedial and compensatory treatment strategies to support occupational performance. Students participate in part-time clinical experiences that link coursework with practice. This course prepares the students for Fieldwork II experiences (full time) and occupational therapy practice in adult rehabilitation settings. The laboratory component will include, but not be limited to, concepts and practice of treatment techniques. Preq: Department permission required. 3 hr lecture, 2 hr lab

OT508 (Not Liberal Arts) OT Process I Psychosocial Intervention 5 hrs. 4 crs. This is a graduate level course which investigates the major psychiatric disorders and challenges students to explore the effect of these disorders on the occupational performance of individuals. Students will learn clinical terminology, standardized and non-standardized assessment tools and practice documentation. Students will also gain a foundation in theoretical concepts as a basis for intervention, utilizing the Occupational Therapy Practice Framework. Teaching strategies will include case based learning, literature review and structured assignments. Participating in Lobby Day and other community efforts will provide an opportunity to practice advocacy skills. The laboratory component will include, but not be limited to, application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hr lecture, 2 hr lab

OT509 (Not Liberal Arts) Occupational Therapy Process I: Psychosocial Intervention WI 5 hrs. 4 crs. This course is designed for graduate students to build upon the content gained in previous coursework by placing more focus on the curative nature of groups for occupational therapy intervention. The use of groups to promote the achievement of individual/group outcomes in the various occupational performance areas is the primary goal, and students will be encouraged to seek evidence supporting best practice. The laboratory component will include, but not be limited to application of concepts and practice of treatment techniques. Preq: Department Permission THIS IS A WRITING INTENSIVE COURSE, 3hrs lect, 2 hrs lab

OT513 (Not Liberal Arts) System Management 3 hrs. 3 crs. This graduate level course provides students with knowledge and understanding of systems theory and its applicability to the delivery of OT services. The course introduces and helps students apply principles of management within systems theory and reviews other major management theories in the provision of OT practice. This includes strategic and financial planning, marketing, reimbursement, and documentation. Students review principles of ethical practice, legal implications, licensure, certification, and continuing professional development and competency. Preq: Department permission required.

OT517 (Not Liberal Arts) Research Design 3 hrs. 3 crs. This graduate course provides students with knowledge and understanding of principles of measurement and assists students to become familiar with psychometric theory and its application

to occupational therapy clinical research and practice. Students' competency in Statistical Package for the Social Sciences (SPSS) is further extended using specific inferential statistical procedures designed for hypotheses testing. Students learn how to identify literature retrieval sources and conduct electronic literature searches relevant to their research projects. Preq: Department permission required.

OT518 (Not Liberal Arts) Research Seminar I 3 hrs. 3 crs. Develop a feasible resarch proposal related to occupational therapy practice. Preq: OT 517, Department permission required

OT523 (Not Liberal Arts) \$ of Orthotics in Occupational Therapy Practice 2 hrs. 1 crs. This combined lecture and guided laboratory course addresses the topic of orthotics (splinting) within occupational therapy practice. It teaches students principles of splinting and how to evaluate, design, fabricate, and order common types of customized and prefabricated orthoses for individuals with diverse medical conditions. Preq: Department Permission Required Combined lecture & guided laboratory

OT524 (Not Liberal Arts) Use of Physical Agent Modalities in Occupational Therapy Practice 2 hrs. 1 crs. This combined lecture and guided laboratory course addresses the topic of physical agent modalities within occupational therapy practice. It addresses the role of physical agent modalities within rehabilitation and teaches students basic principles for patient evaluation and use of thermal agents, ultrasound, compression, and electrical modalities (ultrasound and electrical stimulation) within a comprehensive program of occupational therapy. Preq: Departmental permission required Combined lecture & guided laboratory

OT643 (Not Liberal Arts) Capstone Community Experience 4 hrs. 4 crs. This course provides the student with the opportunity to practice learned knowledge, skills and attitudes with persons in the community in a non-health related facility. Students will select a facility from a list of sites approved by insturctor. Students will volunteer at the site 12 weeks for the entire semester, and attend a 4 hr seminar during the 14 week semester. Students will conduct a needs assessment, intergrating the missison of the facility, research evidence-based apporaches for community based health and wellness programs, and generate and occupation-based program for the benefit of the community. Student will report outcomes to stake holders in a final power point presentation. Preq: Department permission required.

OT644 (Not Liberal Arts) \$ Advanced Occupational Therapy Theory & Practice 3 hrs. 3 crs. This course is for students in their last semester of didactic work after completing their fieldwork experiences. Students will critique application of occupational therapy treatment techniques as applied to various disorders across lifspan. This analysis will be expanded to include analysis of the foundational theories and published evidence that supports the use of these treatment approaches. Students will use case materials from their fieldwork experiences. Preq: Department permission required. Students must have completed fieldwork experiences Availability to be determined by the department.

OT645A (Not Liberal Arts) Occupational Therapy Practice 3 hrs. 3 crs. This elective graduate level seminar is designed for students in the last semester of didactic work after completing fieldwork experiences. This course focuses on school based occupational therapy practice and is designed for those students seeking a specialty focus in this area. Students will be exposed to all pertinent information regarding school based occupational therapy. An experiential education component will provide students with an opportunity to apply concepts and practice treatment techniques. This course prepares students for this current and future area of practice. Availability to be determined by the department. Preq: Department permission required.

OT645B (Not Liberal Arts) Occupational Therapy Practice 3 hrs. 3 crs. This is an elective graduate level seminar designed for students in their last semester of didactic work after completing their fieldwork experiences. Students will develop advanced skills in the area of gerontology and geriatric care. In addition to face-to-face classes that include in class laboratory experiences and on-line instruction students will have experiential learning opportunities within community agencies in conjunction with courses offering other community experiences. This course may be offered as a hybrid course. Preq: Department permission required. Students must have completed fieldwork experiences Availability to be determined by the department.

OT646 (Not Liberal Arts) Independent Study of Selected Topics in Occupational Therapy tba hrs. 3 crs. This graduate level seminar is designed for students who have, for example, completed their pediatric coursework (OT 411). Students will have the opportunity to develop more specialized skills than typical entry level coursework provides in this area of practice under the supervision of Occupational Therapy faculty. Readings, web searches, etc. will be determined by student and faculty. Major projects/assignments will be discussed with student. Future research interests in this area will also be explored. Hours will be determined by the professor and student. Preq: Department permission required Coreq: Department permission required The course is not offered on a regular basis, availability to be determined by the department.

OT647 (Not Liberal Arts) Assistive Technology 3 hrs. 2 crs. This course is designed for occupational therapy majors with foundational knowledge of common medical conditions and their impact on occupational performance. Students will acquire foundational knowledge and skills to select and instruct individuals in the use of products, devices or equipment, whether acquired commercially, modified or customized, that are used to maintain, increase or improve the functional capabilities of individuals with disabilities. This course consists of didactic lectures, case studies, field visits and laboratory experiences. Preq: Department permission required Coreq: Department permission required

OT648 (Not Liberal Arts) Independent Study in Occupational Therapy 1 hrs. 1 crs. The course provides an opportunity to

advance knowledge of an individual area of Occupational Therapy practice or area related to practice (i.e. bioethics, health literacy, environmental design, etc.). Students will work with an Occupational Therapy faculty member to determine readings and assignments appropriate for their special topic of interest. Preq: Department Permission Required The course is not offered on a regular basis; availability to be determined by the Department and does not account for the major.

Pharmaceutical Science

PHS301 (Liberal Arts) Pharmaceutics 3 hrs. 3 crs. This course will enable students to use chemistry in characterization, development, evaluation, and preparation of pharmaceutical dosage forms to understand drug response, dosage form and the behavior and efficacy of pharmaceuticals. Will provide a core understanding of the biological mechanisms by which one drug can affect the disposition of another. Preq: CHEM 233, 234 and 321

PHS350 (Liberal Arts) Pharmaceutical Manufacturing 3 hrs. 3 crs. An introductory overview of the pharmaceutical industry touching on basic processes, facilities design, validation and regulatory affairs. Emphasis on technical aspects of manufacturing processes and the chemical and mechanical areas. Preq: PHS 301

PHS401 (Liberal Arts) Pharmacology 3 hrs. 3 crs. This course will discuss how chemical agents either therapeutic or toxic, affect living organisms. Pharmacology is the science of drug action on biological systems. Preq: CHEM 330 or CHEM 412

PHS480 (Liberal Arts) Research in Pharmaceutical Science 6 hrs. 3 crs. Individually guided laboratory investigations of advanced topics relevant to pharmaceutical research and drug discovery. Preq: Department permission required.

PHS490 (Liberal Arts) Internships in Pharmaceutical Science 0 hrs. 0 crs. Internship at the U.S. Food and Drug Administration or a pharmaceutical company Preq: Department permission required. Not open to students with a combined total of 12 credits in Independent Study in Pharmaceutical Science 1 hour of instruction every week, minimum 120 hours work experience per semester.

Philosophy

PHIL101 (Liberal Arts) Freedom and Reason 3 hrs. 3 crs. Engages students in the development of reasoning and communication by learning to follow arguments in short selections on freedom, knowledge, and other ideas related to the objective of human growth through education. Regular informal writing on the readings, as well as graded essays, will use writing as a way to learn. hours lecture.

PHIL102 (Liberal Arts) Beginning Informal Logic 3 hrs. 3 crs. The nature of informal or ordinary argument and the major fallacies; the student is introduced to the nature and function of definition, propositions, vagueness, ambiguity, equivocation, and devices for handling them. Preq: ENG 125. Coreq: ENG 125.

PHIL103 (Liberal Arts) Introduction to Philosophy 3 hrs. 3 crs. Basic concepts and techniques of philosophical thinking. Preq: ENG 125. Coreq: ENG 125.

PHIL104 (Liberal Arts) Introduction to Knowledge and Value 3 hrs. 3 crs. Examines the nature of and relations between knowledge and value; provides a survey of elementary theories of science and knowledge, and of selected problems in philosophy of art, moral problems, and politics, and business. Preq: ENG 125. Coreq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

PHIL121 (Liberal Arts) Beginning Deductive Logic 3 hrs. 3 crs. Introduction to the logic of propositions and arguments. Preq: ENG 125. Coreq: ENG 125.

PHIL202 (Liberal Arts) Major Ideas and Issues in Education 3 hrs. 3 crs. An introduction to the major historical, philosophical, and sociological ideas in American Education, including the history of schooling in the United States. Historical threads from a variety of multicultural perspectives will be presented, and philosophical approaches from selected global thinkers will be discussed. The student will be encouraged to develop his/her own unique philosophy of education. Preq: ENG 125. Not open to students with credit in SOC 202. Required for all teacher education. Includes seven (7) hours of fieldwork. Required for all teacher education students. This course is cross listed with SOC 202. THIS IS A WRITING INTENSIVE COURSE

PHIL203 (Liberal Arts) Philosophy of Women 3 hrs. 3 crs. Examination of women's philosophical works including theories of women and philosophical works about women written by well-known philosophers; examination of the formation of the canon of philosophy. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL204 (Liberal Arts) Philosophy and Literature 3 hrs. 3 crs. Philosophical issues presented in certain works of literature. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL211 (Liberal Arts) Ancient Philosophy 3 hrs. 3 crs. Philosophy from the Pre-Socratics to Marcus Aurelius. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL212 (Liberal Arts) Medieval Philosophy 3 hrs. 3 crs. Philosophy from the 5th through the 14th centuries: Christian, Jewish and Islamic philosophies. Study of the development of arts and methods for the interpretation of sacred texts as the basis for morals and politics, epistemology, and metaphysics. Compar Preq: ENG 125 and PHIL 102 or 103 or 121 This is a Writing Intensive course.

PHIL213 (Liberal Arts) Modern Philosophy 3 hrs. 3 crs. Philosophy from the Renaissance through the 19th century. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL217 (Liberal Arts) Philosophies of India 3 hrs. 3 crs. An introduction to Indian Philosophy with attention to both its unity

and diversity across the Indian sub-continent. Consideration will be given to its origins and formative development in response to and influence on fundamental social institutions, religious thought and practice, literary achievements, and modern challenges. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL218 (Liberal Arts) Latin American Philosophy 3 hrs. 3 crs. An introduction to the development of philosophy in Latin America from colonial times to the present. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL219 (Liberal Arts) American Philosophy 3 hrs. 3 crs. Philosophy in the United States from the writings of the Founders to the 20th Century. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL224 (Liberal Arts) Philosophical Problems of the Social Sciences 3 hrs. 3 crs. Different conceptions of what the social sciences are, their relation to the natural sciences, and their potential value to humanity. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL231 (Liberal Arts) Philosophical Issues About Business 3 hrs. 3 crs. An examination of ethical and social issues concerning business. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL241 (Liberal Arts) Philosophical Psychology 3 hrs. 3 crs. Various classical and contemporary theories of the nature of the mind and its relation to the body. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL261 (Liberal Arts) Existentialism 3 hrs. 3 crs. The themes unifying the existentialist movement in 19th and 20th century continental philosophy, from Kierkegaard to Sartre and Camus. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL308 (Liberal Arts) Healthcare Ethics 3 hrs. 3 crs. This course examines ethical issues embedded in the organization, practice, and delivery of healthcare in the United States. Special emphasis is placed on the experience of healthcare providers, patients, and families. This is a Writing Intensive Course. Preq: PHIL 102 or PHIL 103 or PHIL 121. WRIT 301, WRIT 302, or WRIT 303. This is a Writing Intensive Course.

PHIL322 (Liberal Arts) Philosophy of Science 3 hrs. 3 crs. Classical and contemporary presuppositions and concepts of science; inductive, hypothetical- deductive, and probabilistic patterns of explanation and problems arising from them. Preq: ENG 125 and PHIL 102 or PHIL 103 or PHIL 121.

PHIL341 (Liberal Arts) Contemporary Philosophy 3 hrs. 3 crs. Selected major contemporary philosophers and schools including representatives of Continental and Anglo-Saxon movements. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not

offered on a regular basis. Availability to be determined by the department.

PHIL351 (Liberal Arts) Ethics 3 hrs. 3 crs. Major writings in ethics. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL352 (Liberal Arts) Philosophy of Art 3 hrs. 3 crs. Problems in the philosophy of art. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL353 (Liberal Arts) Social and Political Philosophy 3 hrs. 3 crs. Basic philosophical issues involved in theories of man and society. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL354 (Liberal Arts) Philosophy of Religion 3 hrs. 3 crs. Philosophical issues in major writings on the nature and being of God and the religious experience. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL355 (Liberal Arts) The Philosophy of Love and Friendship 3 hrs. 3 crs. Problems of love, its origin in human nature and the objects to which we are attracted; from other bodies to other minds, communities, truth, and God. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.

PHIL356 (Liberal Arts) Philosophy of Law 3 hrs. 3 crs. Basic philosophical issues concerning law. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL357 (Liberal Arts) Philosophy of History 3 hrs. 3 crs. The special nature of historical knowledge and historical thinking. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL358 (Liberal Arts) Philosophy of Language 3 hrs. 3 crs. Implications of the structure and use of natural and artificial languages for the nature of the mind, meaning, and reality. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.

PHIL460 (Liberal Arts) Seminar 3 hrs. 3 crs. Problem or philosophical system examined in detail. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. May be repeated for credit with consent of advisor. Not offered on a regular basis. Availability to be determined by the department.

PHIL497 (Liberal Arts) Independent Study 0 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.

PHIL498 (Liberal Arts) Independent Study 0 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.

PHIL499 (Liberal Arts) Independent Study 0 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.

Physical Education

PE139 (Not Liberal Arts) Instructional Methodologies of Teaching Sport Skills 2 hrs. 2 crs. This course is designed to provide effective teaching strategies and instructional methodologies for instruction of various skills involved in individual and team sports. It will enhance the individual's ability to demonstrate, analyze, and provide corrective verbal feedback of basic and advanced movements and sports skills.

PE141 (Not Liberal Arts) Weight Training 2 hrs. 1 crs. History and benefits of weight training, training principles and procedures related to weight training, implementation of a personal weight training program.

PE150 (Not Liberal Arts) Fitness for Living 3 hrs. 2 crs. The relationship of physical activity to health and the quality of life; basic principles of physical conditioning explored with the aid of the Human Performance Laboratory equipment; measurement and evaluation of personal physical fitness levels; design and pursuit of individual training programs; varied physical activity experience to meet the individual student's needs. Not open to students with credit in HE 150.

PE151 (Not Liberal Arts) Basketball 2 hrs. 1 crs. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE153 (Not Liberal Arts) Wrestling 2 hrs. 1 crs. Basic skills in free style college wrestling.

PE154 (Not Liberal Arts) Track and Field 2 hrs. 1 crs. Basic skills in sprinting, distance running, relays, high jump, and all field events.

PE155 (Not Liberal Arts) Fencing 2 hrs. 1 crs. Basic skills in foil fencing.

PE156 (Not Liberal Arts) Gymnastics I 2 hrs. 1 crs. Fundamental skills in tumbling, trampolining, and gymnastic apparatus work.

PE157 (Not Liberal Arts) Gymnastics II 2 hrs. 1 crs. Intermediate and advanced gymnastic skills; emphasis on use of skills in creative gymnastic routines. Preq: PE 156 or permission of instructor.

PE158 (Not Liberal Arts) Football 2 hrs. 1 crs. Techniques of blocking, passing, catching, running, and kicking; defensive line

play, backfield play, team defense, team offense, the passing and kicking game; position play and game strategy.

PE159 (Not Liberal Arts) Self-Defense Activities 2 hrs. 1 crs. Basic skills in self-defense activities such as Karate and/or Judo.

PE162 (Not Liberal Arts) Lacrosse 2 hrs. 1 crs. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE163 (Not Liberal Arts) Softball 2 hrs. 1 crs. Techniques of batting, running, throwing, and catching; position play and game strategy.

PE164 (Not Liberal Arts) Soccer 2 hrs. 1 crs. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE165 (Not Liberal Arts) Volleyball 2 hrs. 1 crs. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE166 (Not Liberal Arts) Yoga 2 hrs. 1 crs. Beginning and intermediate postures of hatha yoga; philosophy and relaxation techniques.

PE167 (Not Liberal Arts) Handball 2 hrs. 1 crs. Elements of one-wall and four-wall handball; basic shots, strategy, competitive play, rules and scoring of singles and doubles games.

PE170 (Not Liberal Arts) \$ Canoeing 2 hrs. 1 crs. Theory, techniques, and practice of canoeing. Includes class session, canoeing at nearby marina, and two day Delaware River field trip. Preq: Ability to swim 75 yards.

PE171 (Not Liberal Arts) Tennis 2 hrs. 1 crs. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles games.

PE173 (Not Liberal Arts) Folk and Social Dance 2 hrs. 1 crs. Traditional and current dance favorites; dance skills and techniques of folk, square, ballroom, and novelty dances.

PE174 (Not Liberal Arts) Golf 2 hrs. 1 crs. Theory, rules, and etiquette of golf; basic skills.

PE176 (Not Liberal Arts) Modern Dance I 2 hrs. 1 crs. Fundamental movements and basic techniques; metrics, movement phrases, improvisation, and composition.

PE177 (Not Liberal Arts) Small Boat Sailing 2 hrs. 1 crs. All levels of ability, beginners to advanced; introduction to the techniques of small boat sailing; theory and practice of sailing, elements of seamanship, navigation, maintenance, and weather. Includes class lectures and sailing at local marina. Preq: Ability to swim 75 yards.

PE178 (Not Liberal Arts) \$ Outdoor Living: Hiking and Backpacking 2 hrs. 1 crs. Essentials of hiking, backpacking and outdoor living. Includes classroom sessions and four day Adirondack or Catskill Mountains trip.

PE179 (Not Liberal Arts) \$ Skiing 2 hrs. 1 crs. Introduction to downhill skiing.

PE181 (Not Liberal Arts) Badminton 2 hrs. 1 crs. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles game.

PE182 (Not Liberal Arts) Swimming for Non-Swimmers 2 hrs. 1 crs. Individualized program to assist non-swimmer develop basic skills, leading to elementary swimming strokes.

PE183 (Not Liberal Arts) African Dance 2 hrs. 1 crs. Techniques, practice, and rhythms in African dance.

PE215 (Not Liberal Arts) Basics of Motor Development and Motor Learning 4 hrs. 3 crs. Lifespan development in human performance will be examined through concepts, applications and labs associated with motor development. Students will develop a base knowledge of movement concepts and their application to physical activities in relation to motor development across the lifespan. Not open to students with credit in both PE 312 and PE 356. This course will also look at the application of learning theory to the acquisition of sport and gross motor skills.

PE271 (Not Liberal Arts) Competitive Tennis 2 hrs. 1 crs. Advanced strokes and court strategy in playing competitive singles and doubles tennis. Preq: PE 171 or permission of instructor.

PE277 (Not Liberal Arts) Dance Composition 2 hrs. 1 crs. Basic elements of choreography, solo, and group work. Preq: PE 176 or permission of instructor.

PE278 (Not Liberal Arts) Modern Dance II 2 hrs. 1 crs. Intensive study of Modern Dance techniques; emphasis on movement exploration and individual and group composition. Preq: PE 176 or permission of instructor.

PE279 (Not Liberal Arts) \$ Leadership in Outdoor Living 2 hrs. 1 crs. Specialized training in planning and leading mountaineering and camping expeditions. Includes leadership of small group planning sessions, classroom sessions, and four day Adirondack or Catskill Mountains trip. Preq: PE 178 or permission of instructor.

PE280 (Not Liberal Arts) \$ Winter Mountaineering 2 hrs. 1 crs. Mountaineering techniques applicable to winter weather conditions; focus on snowshoeing and cross-country skiing skills with additional emphasis on equipment needs to cope with low temperature, snow and ice. Preq: PE 178 or permission of instructor.

PE282 (Not Liberal Arts) Swimming 2 hrs. 1 crs. Skill development in swimming; emphasis on individual development of good technique and stroke development.

PE284 (Not Liberal Arts) Skin and Scuba Diving 2 hrs. 1 crs. Basic use of Scuba gear leading to Professional Association of Diving Instructors (PADI) certification: safety techniques and theory of Scuba diving. Preq: Ability to swim 200 yards.

PE285 (Not Liberal Arts) Senior Life Saving 2 hrs. 1 crs. Techniques of lifesaving and water rescue. Satisfactory completion

certifies student for American Red Cross Senior Life Saving Certificate. Preq: Ability to swim 200 yards.

PE287 (Not Liberal Arts) Water Safety Instructor 3 hrs. 2 crs. Theory, technique and practice of swimming instruction, lifesaving, and water safety. Satisfactory completion certifies student for American Red Cross Water Safety Instructor Certificate. Preq: Student must hold American Red Cross Advanced Life Saving Certificate within last 3 years. Not open to students with credit in PE 286.

PE291 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. Planned program of study in a physical activity to be selected by the student. The program must be developed and approved in consultation with the physical education faculty. The student will be expected to demonstrate competency by written and practical evaluation. Preq: PE 150 or permission of instructor. Not open to students with credit in PE 330.

PE292 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. Planned program of study in a physical activity to be selected by the student. The program must be developed and approved in consultation with the physical education faculty. The student will be expected to demonstrate competency by written and practical evaluation. Preq: PE 150 or permission of instructor. Not open to students with credit in PE 330.

PE293 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. Planned program of study in a physical activity to be selected by the student. The program must be developed and approved in consultation with the physical education faculty. The student will be expected to demonstrate competency by written and practical evaluation. Preq: PE 150 or permission of instructor. Not open to students with credit in PE 330.

PE294 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. Planned program of study in a physical activity to be selected by the student. The program must be developed and approved in consultation with the physical education faculty. The student will be expected to demonstrate competency by written and practical evaluation. Preq: PE 150 or permission of instructor. Not open to students with credit in PE 330.

PE295 (Not Liberal Arts) Special Topic in Physical Activity 2 hrs. 1 crs. Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.

PE296 (Not Liberal Arts) Special Topic in Physical Activity 2 hrs. 1 crs. Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.

PE310 (Not Liberal Arts) Perceptual-Motor Activities for Children 3 hrs. 2 crs. Analysis and application of sequentially developed activities to develop general coordination, balance, body image, eye-foot coordination, eye-hand coordination, eye movements, and sensory perception in children. Not offered on a regular basis. Availability to be determined by the department.

PE311 (Liberal Arts, NOT Liberal Arts for Accounting Major) Creative Rhythms and Dance for Children 2 hrs. 1 crs. Movement-centered activities basic to children's dance development; concentration on fundamental movement, creative dance, folk dance, rhythmical activities, singing games, and square dance. Not offered on a regular basis. Availability to be determined by the department.

PE312 (Not Liberal Arts) Educational Gymnastics for Children 2 hrs. 1 crs. Basic movement principles of educational gymnastics for children. Not offered on a regular basis. Availability to be determined by the department.

PE313 (Not Liberal Arts) Games and Sports for Children 2 hrs. 1 crs. Application of movement principles to games and sports for children. Not offered on a regular basis. Availability to be determined by the department.

PE322 (Liberal Arts) Recreation, Organization and Leadership 3 hrs. 3 crs. The function and organization of recreational services and principles of recreation leadership in the community. Not open to students with credit in PE 320 and PE 321.

PE345 (Liberal Arts) History of Dance 3 hrs. 3 crs. The history of dance from the earliest times, including ethnic dance and the development of ballet and modern dance, to the present. Not offered on a regular basis. Availability to be determined by the department.

PE346 (Liberal Arts) Understanding Dance 3 hrs. 3 crs. Analysis of contemporary dance emphasizing ballet and modern with particular attention to dance in New York City. Field visits to live dance experiences. Not offered on a regular basis. Availability to be determined by the department.

PE350 (Liberal Arts) Principles and Foundations of Physical Education 2 hrs. 2 crs. The role of the physical educator in contemporary education; the study of scientific and philosophical principles and of historical foundations. Preq: Open only to students who intend to major in physical education.

PE353 (Liberal Arts) Physical Activity for Special Populations 2 hrs. 2 crs. Principles of physical activity for individuals with physical, mental, or developmental disabilities, individuals with chronic disease, and the aged.

PE355 (Liberal Arts) Psychology of Sport and Motor Performance 2 hrs. 2 crs. Application of psychological concepts to the study of sports and skilled motor performance; influence of psychological variables upon the performance and behavior of the sports participant. Preq: Completion of Behavioral Science Area Requirements. Department permission required. Not open to students with credit in PE 450. Not offered on a regular basis. Availability to be determined by the department.

PE358 (Liberal Arts) Physiology of Exercise 3 hrs. 3 crs. Physiological adjustments and changes occurring in human organisms as a result of physical activity; emphasis on the prophylactic and therapeutic effects of exercise, the role of muscular contraction and the cardiovascular system in exercise. Preq: BIO 281. Department permission required. Not open to students with credit in PE 352.

PE360 (Liberal Arts) Theory and Techniques of Coaching 2 hrs. 2 crs. Techniques and methods of coaching individual, dual, and team sports; the coach's role in planning and implementing programs. Preq: Department permission required. Not offered on a regular basis. Availability to be determined by the department.

PE362 (Liberal Arts) Kinesiology 3 hrs. 3 crs. Anatomy of skeletal and muscular systems, mechanics of bodily movement, and detailed muscular analysis of skills used in physical activity. Preq: BIO 281. Department permission required.

PE363 (Liberal Arts) Measurement and Evaluation in Health and Physical Education 3 hrs. 3 crs. Nature and purpose of measurement in health and physical education; analysis of pertinent tests and their use in evaluating performance in these areas. Preq: MATH 111. Department permission required. Not open to students with credit in PE 451.

PE365 (Liberal Arts) Research in Health and Physical Education 3 hrs. 3 crs. This course is designed to introduce the concepts and methodologies in modern scientific inquiry and create the foundation for research in health and physical education. Students will be required to read and interpret scientific research, evaluate profess Preq: MATH 111 and ENG 125 Coreq: MATH 111 and ENG 125 This is a Writing Intensive (WI) course.

PE368 (Not Liberal Arts) Physical Education, Sports and Society 3 hrs. 3 crs. This course looks at the role of sport and physical activity in American life, and sociological implications of sport. Students will be introduced to current social issues involving the profession and their relationship to sociological theory. Effective p Preq: Department permission required. Not open to students with credit in both PE 354 and PE 461.

PE452 (Not Liberal Arts) Cardiovascular Fitness 4 hrs. 3 crs. The physiological and psycho-social aspects of cardiovascular fitness; status of heart disease and preventive programs, exercise stress testing, exercise prescription, and conduct of fitness activities. Preq: PE 358 or equivalent preparation in Biology. Department permission required. Not open to students with credit in HE 452. Students registering for this course are advised to register for PE 473 or PE 474 concurrently.

PE471 (Not Liberal Arts) Field Work in Physical Education and Recreation 2 hrs. 1 crs. Supervised experience in the field under the guidance of a faculty advisor in physical education. Preq: Permission of Physical Education Faculty prior to registration.

PE472 (Not Liberal Arts) Field Work in Physical Education and Recreation 2 hrs. 1 crs. Supervised experience in the field under the guidance of a faculty advisor in physical education. Preq: Permission of Physical Education Faculty prior to registration.

PE473 (Not Liberal Arts) Field Work in Physical Education and Recreation 4 hrs. 2 crs. Supervised experience in the field under the guidance of a faculty advisor in physical education. Preq: Permission of Physical Education Faculty prior to registration.

PE474 (Not Liberal Arts) Field Work in Physical Education and Recreation 4 hrs. 2 crs. Supervised experience in the field under the guidance of a faculty advisor in physical education. Preq: Permission of Physical Education Faculty prior to registration.

PE482 (Liberal Arts) Organization, Administration and Supervision of Physical Education 3 hrs. 3 crs. Factors involved in the administration and supervision of programs, facilities, and personnel in physical education. Preq: Senior status and physical education major. Not open to students with credit in HE 481.

PE487 (Liberal Arts) Adult Fitness Programs 3 hrs. 3 crs. Planning, designing, managing, and evaluating adult fitness programs. Preq: Junior status in departmental major.

PE491 (Liberal Arts) Special Seminar in Physical Education 2 hrs. 2 crs. Intensive study of a special area of interest in physical education. Preq: Senior status. Topics will vary with each offering to reflect new trends and current thought in physical education.

PE492 (Liberal Arts) Special Seminar in Physical Education 2 hrs. 2 crs. Intensive study of a special area of interest in physical education. Preq: Senior status. Topics will vary with each offering to reflect new trends and current thought in physical education.

PE493 (Liberal Arts) Special Seminar in Physical Education 3 hrs. 3 crs. Intensive study of a special area of interest in physical education. Preq: Permission of instructor. Topics will vary with each offering to reflect new trends and current thought in physical education.

PE494 (Liberal Arts) Special Seminar in Physical Education 3 hrs. 3 crs. Intensive study of a special area of interest in physical education. Preq: Permission of instructor. Topics will vary with each offering to reflect new trends and current thought in physical education.

PE495 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 2 hrs. 2 crs. Investigation of a problem in the biological, sociological, and psychological foundations of physical education, determined by the student in consultation with a member of the Physical Education faculty. Preq: Agreement of faculty member to act as advisor.

PE496 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 2 hrs. 2 crs. Investigation of a problem in the biological, sociological, and psychological foundations of physical education, determined by the student in consultation with a member of the Physical Education faculty. Preq: Agreement of faculty member to act as advisor.

PE497 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 1 hrs. 1 crs. Investigation of a problem in the biological, sociological and psychological foundations of physical education, determined by the student in

consultation with a member of the physical education faculty. Preq: Agreement of faculty member to act as advisor.

PE498 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 1 hrs. 1 crs. Investigation of a problem in the biological, sociological and psychological foundations of physical education, determined by the student in consultation with a member of the physical education faculty. Preq: Agreement of faculty member to act as advisor.

Physical Education Athletic Training

PEAT310 (Not Liberal Arts) Introduction to Athletic Training and Sports Medicine 3 hrs. 3 crs. An introductory course in the prevention, evaluation and treatment of athletic injuries; acute care of injured athletes with emphasis on skeletal and soft tissue injuries. Preq: BIO 281, and PE 315. Coreq: PEAT 318. Not open to students with credit in PE 361.

PEAT318 (Not Liberal Arts) Field Work: Introduction to Athletic Training and Sports Medicine 7 hrs. 1 crs. The introductory supervised field experience in the prevention, evaluation and treatment of athletic injuries; acute care of injured athletes with emphasis on skeletal and soft tissue injuries. Coreq: PEAT 31.

PEAT320 (Not Liberal Arts) Therapeutic Exercise and Evaluation 3 hrs. 3 crs. Principals and methods of on field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery. Preq: PEAT 310, and PE 362. Coreq: PEAT 328.

PEAT328 (Not Liberal Arts) Field Work: Therapeutic Exercise and Evaluation 14 hrs. 2 crs. Supervised clinical education experience under a NATA-certified athletic trainer, focusing on on-field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery. The student will be assigned to the training therapy room at York College with the option of athletic competition coverage under other affiliated certified athletic trainers. Coreq: PEAT 32.

PEAT330 (Not Liberal Arts) Scientific Basis in Athletic Training 3 hrs. 3 crs. This course emphasizes the pathology of sports injuries and related conditions induced by training. Preq: PEAT 320, and PE 358. Coreq: PEAT 338.

PEAT338 (Not Liberal Arts) Field Work: Scientific Basis in Athletic Training. 14 hrs. 2 crs. Supervised clinical education experience under a NATA-certified athletic trainer, which emphasizes the pathology of sports injuries and related conditions induced by training. The student will be assigned to the training therapy room at York College with the option of athletic competition coverage under other affiliated certified athletic trainers. Coreq: PEAT 33.

PEAT340 (Not Liberal Arts) Modalities and Management Strategies in Athletic Training 3 hrs. 3 crs. Capstone course focuses on case studies in Athletic Training using various therapeutic modalities; management and creative problem solving

in organization and administration in athletic training. Preq: PEAT 330. Coreq: PEAT 348.

PEAT348 (Not Liberal Arts) Field Work: Modalities and Management Strategies in Athletic Training 20 hrs. 3 crs. Supervised clinical education experience under a NATA-certified athletic trainer, focusing on case studies in Athletic Training using various therapeutic modalities; management and creative problem solving in organization and administration in athletic training. The student will locate an internship affiliation compatible with his/her interests and secure an internship with that agency. Coreq: PEAT 34.

Physician's Assistant

HSPA301 (Not Liberal Arts) Pharmacology I 3 hrs. 2 crs. First of a two-course sequence; the study of pharmacology principles as they apply to the practice of medicine. Preq: Permission of physician assistant faculty.

HSPA302 (Not Liberal Arts) Pharmacology II 3 hrs. 2 crs. Further exploration of pharmacological principals as they apply to future prescriptive practice as a physician assistant. Preq: Permission of physician assistant faculty.

HSPA304 (Not Liberal Arts) Interviewing and Counseling 1 hrs. 1 crs. Analysis of health professional-patient interactions. Psychosocial factors impacting physical and emotional health. Preq: Permission of physician assistant faculty.

HSPA305 (Not Liberal Arts) Physician Assistant Profession 2 hrs. 1 crs. Introduction to the role of PA, with an emphasis on the history, training, practice characteristics and certification process. Preq: Permission of physician assistant faculty.

HSPA313 (Not Liberal Arts) \$ Clinical Skills 3 hrs. 1 crs. Practical sessions introducing basic skills necessary for clinical practice as a physician assistant. Includes instruction in electrocardiography, suturing and casting/splinting. Preq: Permission of physician assistant faculty.

HSPA324 (Not Liberal Arts) Diagnostic Studies 3 hrs. 2 crs. The indications, limitations and procedures of medical laboratory, radiology laboratory, and other diagnostics utilized in modern medicine. Basic procedures for performing diagnostic examinations and will be given the opportunity to practice them in several cases. Interpretation of common studies. Preq: All prerequisites required for admission into the PA program and official acceptance into the program. 2 hours lecture, 1 hour lab.

HSPA337 (Not Liberal Arts) Clinical Anatomy 5 hrs. 3 crs. Clinically focused embryology, gross anatomy and neuroanatomy. Incorporates the use of computer simulations, anatomical models and videotapes. Provides an understanding of the developmental, structural and functional anatomy of the human body relevant to the needs of the physician assistant. Associations are made with clinical pathophysiology and clinical medicine. Preq: All prerequisites required for admission into the PA program and official acceptance into the program. 2 hours lecture, 3 hours lab.

HSPA356 (Not Liberal Arts) Microbiology & Immunology 2 hrs. 1 crs. Pathogenic bacteria, fungi, protozoa, viruses, rickettsiae and helminthes are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control. Preq: All prerequisites required for admission into the PA Program and official acceptance into the program.

HSPA357 (Not Liberal Arts) Pathology 3 hrs. 3 crs. Introduction to the study of human pathophysiology as the foundation of clinical medicine. Preq: Permission of physician assistant faculty.

HSPA401 (Not Liberal Arts) \$ Physical Diagnosis I 5 hrs. 3 crs. First of a two-course sequence; instruction in eliciting a complete medical history and performing a physical examination. Preq: Permission of physician assistant faculty. 2 hours lecture, 3 hours laboratory.

HSPA402 (Not Liberal Arts) \$ Physical Diagnosis II 5 hrs. 3 crs. Further exploration of the strategies and skills of medical history taking and physical examination. Preq: Permission of physician assistant faculty. 2 hours lecture, 3 hours laboratory.

HSPA408 (Not Liberal Arts) Psychosocial Dynamics 1.5 hrs. 1 crs. This course introduces the student to the basic tenets of clinical psychiatry and emphasizes the biopsychosocial approach to patient treatment, which analyzes the sociological, cultural and psychological factors that influence an individual's illness. Preq: Permission of physician assistant faculty.

HSPA410 (Not Liberal Arts) Internal Medicine I 6 hrs. 2 crs. First of a two-course sequence designed to familiarize the student with various internal medicine problems. Foundations in cardiology, pulmonary, hematology/oncology, dermatology and rheumatology for Physician Assistant clinical practice. Preq: Permission of physician assistant faculty.

HSPA412 (Not Liberal Arts) Internal Medicine II 6 hrs. 2 crs. Second of a two-course sequence designed to familiarize the student with various internal medicine problems. Preq: Permission of physician assistant faculty.

HSPA425 (Not Liberal Arts) Clinical Correlations 2.5 hrs. 1 crs. This problem-based learning course is taught in small group format, and will develop the student's critical thinking skills by working through clinical case scenarios. Preq: Permission of physician assistant faculty.

HSPA428 (Not Liberal Arts) Primary Care I 3 hrs. 2 crs. First in a two-course sequence. Primary care medicine, with an emphasis on urban health care. Includes health promotion/disease prevention, geriatric medicine and occupational medicine. Utilizes case studies. Preq: HSPA 337 and HSPA 357. 2 hours lecture, 1 hour recitation.

HSPA430 (Not Liberal Arts) Primary Care II 4 hrs. 1 crs. Second in a two-course sequence. Foundations of pediatrics and obstetrics/gynecology with emphasis on Physician Assistant clinical practice in an urban setting Preq: Permission of physician assistant faculty.

HSPA435 (Not Liberal Arts) Emergency Medicine 3 hrs. 1 crs. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room. Preq: Permission of physician assistant faculty.

HSPA449 (Not Liberal Arts) Surgery 4 hrs. 2 crs. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room. Students will be able to identify potentially life threatening conditions and initiate care. Students will also be certified in Cardiopulmonary resuscitation. Preq: HSPA 401. 2 hour lectures, 2 hours recitation.

HSPA450 (Not Liberal Arts) \$ Surgical Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a inpatient hospital setting and also includes outpatient surgical clinic duties. Preq: Permission of physician assistant faculty.

HSPA451 (Not Liberal Arts) \$ Internal Medicine Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a hospital setting. Preq: Permission of physician assistant faculty.

HSPA452 (Not Liberal Arts) \$ Pediatrics Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting. Preq: Permission of physician assistant faculty.

HSPA453 (Not Liberal Arts) \$ Emergency Medicine Rotation 40 hrs. 1 crs. This five-week rotation takes place in the hospital emergency department. Preq: Permission of physician assistant faculty.

HSPA454 (Not Liberal Arts) \$ Long Term Care Rotation 40 hrs. 1 crs. This five-week rotation takes place in nursing homes, specialized geriatric facilities, and chronic care facilities. Preq: Permission of physician assistant faculty.

HSPA455 (Not Liberal Arts) \$ Psychiatry Rotation 40 hrs. 1 crs. This five-week rotation takes place in a psychiatric hospital, hospital psychiatric department or clinic setting. Preq: Permission of physician assistant faculty.

HSPA457 (Not Liberal Arts) \$ Obstetrics and Gynecology Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting. Preq: Permission of physician assistant faculty.

HSPA458 (Not Liberal Arts) \$ Family Medicine Clinical Rotation 5 hrs. 1 crs. This clinical clerkship will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients of all ages presenting with primary care medical problems. Preq: Department permission required. Coreq: Department permission required. 5-week full-time Clinical Clerkship.

HSPA459 (Not Liberal Arts) \$ Ambulatory Care Clinical Rotation 5 hrs. 1 crs. This clinical clerkship will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat adult patients presenting with primary care medical problems. Preq: HSPA 428 and Department permission

required. Coreq: HSPA 428 and Department permission required. 5-week full-time Clinical Clerkship.

Physics

PHYS101 (Liberal Arts) College Physics I 9 hrs. 6 crs. An introduction to the basic concepts of physics: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, elasticity, harmonic motion, statics and dynamics of fluids, thermal properties of matter. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects. An extra problem session is designed to strengthen students' application of calculus. Coreq: MATH 121. Not open to students with credit in PHYS 105 or PHYS 107. 3 hours lecture, 4 hours problem session, 2 hours lab. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects. An extra problem session is designed to strengthen students' application of calculus.

PHYS102 (Liberal Arts) College Physics II 7 hrs. 5 crs. Topics include electrostatics, electromagnetism, electric current and circuits, introductory electronics, waves and acoustics, properties of light waves, optics, introduction to modern physics including atomic physics and relativity. Preq: PHYS 101 or PHYS 151. Not open to students with credit in PHYS 106 or PHYS 108. 3 hours lecture, 2 hours problem session, 2 hours lab. Continuation of PHYS 101. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS151 (Liberal Arts) \$ University Physics I 7 hrs. 5 crs. An introduction to the basic concepts of physics: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, elasticity, harmonic motion, statics and dynamics of fluids, thermal properties of matter. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects. Coreq: MATH 121. Not open to students with credit in PHYS 105 or PHYS 107. 3 hours lecture, 2 hours problem session, 2 hours lab. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS152 (Liberal Arts) \$ University Physics II 7 hrs. 5 crs. Topics include electrostatics, electromagnetism, electric current and circuits, introductory electronics, waves and acoustics, properties of light waves, optics, introduction to modern physics including atomic physics and relativity. Preq: PHYS 101 or PHYS 151. Coreq: MATH 122 or its equivalent. Not open to students with credit in PHYS 106 or PHYS 108. 3 hours lecture, 2 hours problem session, 2 hours lab. Continuation of PHYS 151 with calculus. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS211 (Liberal Arts) Mechanics I 4 hrs. 3 crs. Vector algebra and derivatives, inertial reference frames and Galilean invariance, dynamics of a single particle, conservation laws, the harmonic oscillator, rigid body rotation, central forces, the Lorentz transformation, and special relativity. Preq: PHYS 152. Coreq: MATH 221.

PHYS241 (Liberal Arts) Modern Physics 4 hrs. 3 crs. Special relativity, black body radiation, Planck's quantization law, radioactivity, discoveries of electron and nuclear atom, particle wave duality, Bohr atom, introduction to quantum theory, Schrodinger's equation, the hydrogen atom, high energy physics, modern experimental techniques. Preq: PHYS 106 or PHYS 108 and MATH 122.

PHYS282 (Liberal Arts) Weather and Climate 4 hrs. 3 crs. An introduction to the earth's atmosphere; its structure, composition and evolution. Climatology, including the Greenhouse Effect and Global Warming. Atmospheric phenomena, weather, acid rain and the degradation of the ozone layer. Laboratory work includes; collection of data from an on site weather station and on the Internet, computer models of atmospheric processes. 2 hours lecture, 2 hours laboratory.

PHYS321 (Liberal Arts) Electricity and Magnetism I 4 hrs. 3 crs. Electrostatic fields and potentials. Vector operators and the vector integral theorems of Gauss and Stokes; Laplace's equation; electrodynamic fields of moving charges, the magnetic field and vector potential, inductance, Maxwell's equations, fields in matter. Preq: PHYS 211. Coreq: MATH 223.

PHYS341 (Liberal Arts) Introduction to Quantum Mechanics for Engineers and Scientists 3 hrs. 3 crs. Schrodinger's equation, wave functions in X-Space and K-Space. Operators, eigenfunctions and eigenvalues. Potential well and barrier penetration, harmonic oscillator, periodic potentials, perturbation theory, WKB approximation, Fermi Statistics. Preq: PHYS 241/PHYS 321, MATH 222. Coreq: PHYS 241/PHYS 321, MATH 222. Not open to students with credit in PHYS 441.

PHYS351 (Liberal Arts) Statistical Mechanics 4 hrs. 3 crs. The behavior of macroscopic systems of many particles; classical thermodynamics, statistical ensembles, canonical distribution, statistical thermodynamics; the kinetic theories of transport to explain specific heat of solids and thermal and electrical conductivity. Preq: PHYS 211, PHYS 241 and MATH 221.

PHYS383 (Liberal Arts) Modern Physics Laboratory 5 hrs. 3 crs. Laboratory in atomic and nuclear physics; experiments may include: Millikan oil drop, e/m , Franck-Hertz experiments; nuclear particle detectors and associated instrumentation; statistical analysis of data; calibration of instruments and systems. Preq: PHYS 241. 1 hour lecture, 4 hours laboratory.

PHYS412 (Liberal Arts) Mechanics II 3 hrs. 3 crs. Background for advanced topics in quantum mechanics and theoretical physics; variational principles: Lagrangian and Hamiltonian mechanics; Euler's angles; the gyroscope; coupled oscillatory systems; Poisson and commutation brackets. Not offered on a regular basis. Preq: PHYS 211. Coreq: MATH 223. Availability to be determined by the department.

PHYS422 (Liberal Arts) Electricity and Magnetism II 3 hrs. 3 crs. Dipole and multipole fields; solutions of potential problems; the electrostatic field in dielectric media; transient currents; applications of Maxwell's equations; the Lienard Wiechert potentials and radiation from accelerated charges. Preq: PHYS 321. Not

offered on a regular basis. Availability to be determined by the department.

PHYS431 (Liberal Arts) Waves and Optics 4 hrs. 3 crs. Various phenomena associated with wave properties of light and, by extension, with any waves; geometric optics, wave description, superposition, beats, harmonics, Doppler effect, scattering and index of refraction, polarization, interference, diffraction, coherence; the elements of Fourier transforms. Preq: PHYS 321.

PHYS441 (Liberal Arts) Quantum Mechanics and Atomic Physics 4 hrs. 3 crs. Schrodinger wave mechanics applied to one-dimensional potential problems and to hydrogenic atoms; Pauli spin functions; multielectron atoms and the central field approximation; the hydrogen molecule. Preq: PHYS 241. Coreq: PHYS 431 and MATH 333.

PHYS442 (Liberal Arts) Nuclear and Particle Physics 3 hrs. 3 crs. Historical development; nuclear mass, stability, size, angular momentum, moments and parity; nuclear instability and decay; decay constants; alpha, beta, and gamma decay; interaction of radiation with matter; fundamental forces; detection and measurement of radiation; accelerators; nuclear models; nuclear reactions; elements of fundamental particle properties and symmetries. Preq: PHYS 241. Coreq: PHYS 321.

PHYS455 (Liberal Arts) Medical Physics Theory and Practice 3 hrs. 3 crs. The physical aspects of ionizing radiation as applied in radiology and in medical uses of isotopes. X-rays; physical principles of diagnostic radiology; physical basis of treatment planning; radiation detection, measurement and dosimetry; energy absorption in biological material. Preq: Senior status in physics and permission of instructor.

PHYS456 (Liberal Arts) Clinical Internship in Medical Physics 1 hrs. 3 crs. In-depth, supervised training by the Medical Physics group of an affiliated medical center. Practical training in radiation safety and X-ray diagnosis, nuclear medicine, radiation physics laboratory, and clinical radiation dosimetry. Coreq: PHYS 455. One full day per week.

PHYS461 (Liberal Arts) Solid State Physics 3 hrs. 3 crs. Basic structural, electrical, and magnetic properties of solids; mathematical description of crystal geometries, the reciprocal lattice, and the Brillouin zone; specific heats of crystals; free-electron distribution function in metals; electrical properties of semiconductors and transistors. Preq: PHYS 351. Coreq: MATH 223.

PHYS491 (Liberal Arts) Astrophysics 1: Planetary Astronomy 3 hrs. 3 crs. Basic physics of plasma; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity. Coreq: PHYS 351. 3 hours lecture.

PHYS492 (Liberal Arts) Astrophysics II: Stellar Astronomy 3 hrs. 3 crs. Basic physics of radiation; spectral analysis; distances, motions, and physical properties of stars; stellar interiors and atmospheres; stellar evolution; clusters of stars; the interstellar

medium; content, structure, and rotation of the Milky Way galaxy. Coreq: PHYS 351. 3 hours lecture.

PHYS493 (Liberal Arts) Astrophysics III: Extragalactic Astronomy 3 hrs. 3 crs. Galaxies and galaxy clusters; the extragalactic nuclei; distance scale and Hubble's Law; quasars and active galactic nuclei; general relativity; distances and luminosities in cosmology. Origin and fate of the universe: the Big Bang, cosmic background radi Preq: PHYS 351

PHYS495 (Liberal Arts) Independent Study 6 hrs. 3 crs. Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Minimum 6 hours per week.

PHYS496 (Liberal Arts) Independent Study 6 hrs. 3 crs. Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Minimum 6 hours per week.

PHYS140 (Liberal Arts) The Physical Universe 4 hrs. 3 crs. A survey of the basic concepts of physics. Topics may include: mechanics, properties of matter, heat, sound, electricity & magnetism, light, atomic and nuclear physics. This is an elementary course for non-science majors. This course includes: lectures, laboratory activities, and basic problem solving. In-class demonstrations complete this course. cr, 2 hr lecture, 2 hr lab.

Political Science

POL101 (Liberal Arts) Introduction to Politics 3 hrs. 3 crs. Survey of the basic concepts of politics through the study of contemporary issues and problems.

POL103 (Liberal Arts) Politics and Government in the United States 3 hrs. 3 crs. Analysis of American politics and public policy in economic, social, and ideological contexts, emphasizing the Presidency, Congress, the judiciary, the federal bureaucracy, political parties, and interest groups.

POL111 (Liberal Arts) Introductory Topics in Political Science 3 hrs. 3 crs. Analyzes selected, contemporary political issues of broad local, national, or international significance from both theoretical and practical perspective. Topics will vary and be announced during the previous semester.

POL112 (Liberal Arts) Introductory Topics in Political Science 3 hrs. 3 crs. Analyzes selected, contemporary political

issues of broad local, national, or international significance from both theoretical and practical perspective. Topics will vary and be announced during the previous semester.

POL202 (Liberal Arts) Comparative Politics 3 hrs. 3 crs. Introduction to theories and techniques of comparative analysis; comparative study of political processes and performance in selected industrial and developing countries. Preq: ENG 125.

POL210 (Liberal Arts) Introduction to Political Economy 3 hrs. 3 crs. This course is an introduction to political economy philosophies and the economic principles that were developed in response to such philosophies. These principles will be used to promote understanding of how economic considerations constrain and influence political decisions and processes, resource allocation, and international relationships. Preq: POL 103 and ECON 102. Coreq: POL 13 and ECON 12.

POL211 (Liberal Arts) Intermediate Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: Three credits in Political Science.

POL212 (Liberal Arts) Intermediate Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: Three credits in Political Science.

POL214 (Liberal Arts) Racial and Ethnic Politics 3 hrs. 3 crs. A comparative analysis of the politics of racial and ethnic groups in American society; problems of assimilation and alienation. Preq: ENG 125, POL 103 or permission of instructor.

POL221 (Liberal Arts) Research Methods in Political Science 3 hrs. 3 crs. This course emphasizes the use of qualitative methods of research in the field of political science and social science. Preq: POL 103, ENG 125

POL226 (Liberal Arts) The U.S. Supreme Court 3 hrs. 3 crs. Structure and function of the federal judicial system, judicial behavior and administration; the relation of current trends and conflicts in the Supreme Court to the clash of fundamental ideas and values in American society. Preq: ENG 125, POL 103 or permission of instructor.

POL228 (Liberal Arts) Public Administration in the Political Setting 3 hrs. 3 crs. Analysis of the structure and functions of local, state, and federal administrative agencies and their relationship to the broader political environment; the conflict between bureaucratic efficiency and democratic values. Preq: ENG 125, POL 103 or permission of instructor.

POL230 (Liberal Arts) Correctional Administration 4 hrs. 3 crs. Survey and analysis of governmental correction institutions, halfway houses, probation and parole, including a study of problems in correctional administration, an overview of modern developments in correctional management and an analysis of the political impact on various correctional programs. Preq: POL 228 or permission of instructor. 2 hours lecture, 2 hours field work. Not offered on a regular basis. Availability to be determined by the department.

POL231 (Liberal Arts) The Electoral Process 3 hrs. 3 crs. Analysis of the structure and function of political parties: organization and leadership, campaigns, public opinion, and electoral behavior. Preq: ENG 125, POL 103, or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL233 (Liberal Arts) Introduction to Aviation Safety and Security 0 hrs. 3 crs. Analysis of threats, security and protection within the aviation industry, emphasizing a political and public policy perspective. Impact of international terrorism, hijacking, sabotage, bombings, theft, smuggling, and terminal invasion are examined to inc Preq: POL 103 and ENG 125 Hours to be arranged

POL241 (Liberal Arts) Basic Factors in International Politics 3 hrs. 3 crs. Survey of the international system; an assessment of main forces involved in conflict and resolution; major components in inter-nation bargaining. Preq: ENG 125. Offered at least once a year.

POL250 (Liberal Arts) Latin American Politics 3 hrs. 3 crs. Survey of political trends, governmental leadership, political parties and interest groups in the major Latin American nations; emphasis on political change, revolution, and the interaction of social and political forces since the advent of Fidel Castro. Preq: POL 202.

POL251 (Liberal Arts) Puerto Rican Politics 3 hrs. 3 crs. The process of political modernization with focus on mass participation, elite interaction, and urban-rural relationships; analyses of Puerto Rican political parties and interest groups, such as the Catholic Church, students, workers, the industrial elite, and United States foreign interests. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL252 (Liberal Arts) Cuban Politics 3 hrs. 3 crs. The process and phases of the Cuban Revolution and its aftermath; the construction of Socialism, analysis of leadership, ideology, labor, race, women; inter-American, Cuban-Sino-Russian relations; Cuba and Third World. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL256 (Liberal Arts) African Politics 3 hrs. 3 crs. African nationalism, the search for unity, and the internal developments of new nations; parties, the military, the bureaucracy, and the implications of the colonial experience. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL257 (Liberal Arts) Asian Politics 3 hrs. 3 crs. Political development in selected Asian nations; emphasis on the independence movements, nationalism, political parties, and pressure groups. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL258 (Liberal Arts) Middle East Politics 3 hrs. 3 crs. Politics of social change in the Middle East; basic trends in political, social, and international relationships; major social groups including the peasantry, urban workers, labor unions, political parties, and the new middle class in the context of a transforming society, the Arab-Israeli conflict as it relates to external and internal developments in

the area. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL259 (Liberal Arts) Modern Israel 3 hrs. 3 crs. Israeli society from pre-statehood to the present; emphasis on group politics, ideology, government, and foreign policy. Preq: POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL267 (Liberal Arts) Classical Political Theory I: Plato to Machiavelli 3 hrs. 3 crs. The study of Greek, Roman, and Medieval political thought and their relationship to the societies from which they emerged. Preq: ENG 125

POL268 (Liberal Arts) Political Theory II: Machiavelli to Marx 3 hrs. 3 crs. The study of Western political thought from the 16th through the 19th centuries and its relationship to the capitalist societies from which it emerged. Preq: ENG 125

POL269 (Liberal Arts) American Political Thought 3 hrs. 3 crs. American political thought from colonial times through the contemporary period: its European-Liberal origins; its emergence as an independent and indigenous tradition; analysis of mainstream as well as dissident political ideas. Preq: POL 103 Not offered on a regular basis. Availability to be determined by the department.

POL271 (Liberal Arts) The Politics of Education 3 hrs. 3 crs. Educational decision-making in the political realm; the effect of community power structures, metropolitan organization, and state government on education policies. Preq: POL 101 or permission of instructor; no prerequisite for Education students. Not offered on a regular basis. Availability to be determined by the department.

POL273 (Liberal Arts) Politics of Aging 3 hrs. 3 crs. American public policy responses to increasingly urgent needs of older populations are examined and compared with results in other developed nations; special attention is given to practical problems faced by public administrators, policy makers, and the aged themselves, in achieving more satisfactory outcomes. Not offered on a regular basis. Availability to be determined by the department.

POL275 (Liberal Arts) Introduction to Law 4 hrs. 4 crs. Introduction to the legal system, and to the internal operation and procedures of the civil and criminal courts; role of the paralegal; familiarity with basic legal terminology. Preq: ENG 125, Junior status or permission of instructor.

POL280 (Liberal Arts) Transportation: Planning, Finance, and Policy 3 hrs. 3 crs. This course examines the field of transportation management in order to provide a basic understanding for students who wish to pursue careers in private or public transportation management. Course topics include: theory of transportation demand, transportation costs and investment planning, and current topics in transportation economics such as regulation-deregulation and social cost pricing. Preq: POL 103 and POL 210. Coreq: POL 13 and POL 21.

POL285 (Liberal Arts) Urban Government in the United States 3 hrs. 3 crs. Analysis of the structure and decision-making patterns of urban political institutions and their relationship to

changes in population, ethnicity, class and city-state-federal relationships. Preq: ENG 125.

POL305 (Liberal Arts) Selected Legal Topics 3 hrs. 3 crs. In-depth analysis of a single legal specialty in regard to substantive law and issues. Preq: ENG 125 and three credits in Political Science.

POL306 (Liberal Arts) Selected Legal Topics 3 hrs. 3 crs. In-depth analysis of a single legal specialty in regard to substantive law and issues. Preq: ENG 125 and three credits in Political Science.

POL309 (Liberal Arts) Aviation Law 3 hrs. 3 crs. An examination of governmental regulatory and legal functions unique to the aviation industry. The course includes an explication of manufacturing and operating regulations, aviators' certification, contracts, torts, insurance, and security. Additionally, Preq: POL 103.

POL310 (Liberal Arts) Methods of Legal Research 2 hrs. 2 crs. Introduction to methodology and practice in legal research; familiarity with primary and secondary sources of the law, judicial reports, case finding tools, citators, legal periodicals and other research aids. Preq: POL 275, Junior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL311 (Liberal Arts) Advanced Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: ENG 125 and twelve credits in Political Science.

POL312 (Liberal Arts) Advanced Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: ENG 125 and twelve credits in Political Science.

POL320 (Liberal Arts) Risk Management for Public Policy 3 hrs. 3 crs. This course prepares the participant for an understanding of the entire risk management process in government decision-making. It takes a process view of the inputs to risk management, risk management planning, risk identification, qualitative risk analysis, quantitative risk analysis, risk response planning, and risk monitoring and control. Preq: POL 103 and POL 210. Coreq: POL 13 and POL 21.

POL322 (Liberal Arts) The Courts and Public Policy 3 hrs. 3 crs. Political analysis of the relations between the judicial system and welfare groups, consumer protection groups, anti-pollution groups, labor unions and other interested groups. Preq: POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL327 (Liberal Arts) Congress and the Presidency 3 hrs. 3 crs. Structure and functions of Congress and the Presidency in the formulation and execution of public policy; internal organization of Congress and the Presidency; bases of power, sources of conflict, patterns of decision-making. Preq: POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL329 (Liberal Arts) Public Administration: Management Processes 3 hrs. 3 crs. Analysis of administrative leadership in municipal, state, and federal government; evaluation of current tools for agency control, e.g., incentive plans, decentralization exchange theory, comprehensive productivity programming and co-optation. Preq: POL 228.

POL330 (Liberal Arts) Public Policy Making 3 hrs. 3 crs. Analysis of public policy formation: role of political demands, bureaucracy, decision patterns, leadership and power; focuses upon processes of program authorization, budget making, planning and evaluation. Study of selected policy areas. Preq: POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL332 (Liberal Arts) Public Opinion and Political Behavior 3 hrs. 3 crs. Public opinion and political participation; political socialization, attitude formation and change, political ideology, and voting behavior; role of the mass media. Preq: POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL340 (Liberal Arts) American Capitalism: Political and Social Aspects 3 hrs. 3 crs. Capitalism beyond its economic consequences; the impact of monopoly capital on the contemporary American political process and social life; the relationship of capitalism to major domestic and foreign issues. Preq: POL 103 Offered at least once a year.

POL346 (Liberal Arts) American Foreign Policy 3 hrs. 3 crs. American strategy in world politics; formulation, implementation, and effects of United States decision-making in the international arena. Preq: POL 101, and POL 103 or permission of instructor.

POL352 (Liberal Arts) Russian Politics 3 hrs. 3 crs. Russian politics, culture, institutions and foreign policy; major focus on the changing role and composition of socio-economic and political forces in the contemporary Russian State. Preq: ENG 125 and POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL364 (Liberal Arts) Protest Politics and the Novel 3 hrs. 3 crs. The persistent struggle for freedom and justice under unresponsive governments as seen in the works of Stendhal, Camus, and Sartre; Dostoevsky and Solzhenitsyn; Brecht and Grass; Snow and Golding; Mailer and Miller; M. Fuentes and Cortazar. Preq: POL 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL366 (Liberal Arts) Marxism 3 hrs. 3 crs. Development of the political thought of Karl Marx from the 19th century through Leninism, Revisionism to the theories of modern Communism and Democratic Socialism. Preq: POL 101 or permission of instructor. Offered alternate spring semesters.

POL367 (Liberal Arts) Contemporary Political Theory 3 hrs. 3 crs. Theories of social class, values and societal change; study of contemporary ideological approaches to the study of politics; assumptions and perspectives of systematic schools of political

science. Preq: 6 credits in Political Science Offered at least once a year.

POL373 (Liberal Arts) Politics of the Environment 3 hrs. 3 crs. Emergence of the environment as a salient political issue in American politics; federal environmental policies/state implementation; the national/global debate over environmental regulations. Preq: ENG 125 and POL 103. Not offered on a regular basis. Availability to be determined by the department.

POL375 (Liberal Arts) Seminar-Internship in a Legal Office 7 hrs. 4 crs. A bi-weekly seminar on legal issues and a ten hour per week internship in legal office designed for students who have completed the Paralegal courses. Preq: POL 275, POL 310 and permission of instructor. 1 hour lecture, 6 hours field work. Not offered on a regular basis. Availability to be determined by the department.

POL385 (Liberal Arts) New York City Government and Politics 3 hrs. 3 crs. Origins and operations of current governmental structures and political forces in New York City; governmental responses to changing ethnic and economic demands including reform proposals such as decentralization and regional government. Preq: POL 285.

POL386 (Liberal Arts) Comparative Urban Government and Politics 3 hrs. 3 crs. Urban governmental institutions and reforms in selected industrial and developing areas and the relationship to changing environmental situations. Preq: POL 202, POL 285. Not offered on a regular basis. Availability to be determined by the department. Offered at least once a year.

POL387 (Liberal Arts) Political Processes in the American States 3 hrs. 3 crs. Selected problems in the structure, function, and administrative process of American state governments; attention will be given to comparative public policies; special emphasis on New York State government and politics. Preq: POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL392 (Liberal Arts) Aviation Internship in the Private Sector 0 hrs. 3 crs. Supervised field experience in a corporate or other private sector setting in the aviation sector under the guidance of a faculty advisor in Political Science. Preq: POL 103, BUS 230, BUS 330 and permission of Department required Not open to students with credit in BUS 392. Hours to be arranged

POL393 (Liberal Arts) Seminar-Internship in New York City Government and Community Development 12 hrs. 4 crs. Study of organizational dynamics and related NYC political issues coupled with structured field work in a public agency, office of an elected official, or community-based organization. Preq: 9 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. 2 hours lecture, 8-10 hours field placement. For students interested in city governance/community service.

POL394 (Liberal Arts) Seminar-Internship in New York City Government and Community Development 12 hrs. 4 crs. Study of organizational dynamics and related NYC political issues coupled with structured field work in a public agency, office of an elected

official, or community-based organization. Preq: 9 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. 2 hours lecture, 8-10 hours field placement. For students interested in city governance/community service.

POL395 (Not Liberal Arts) Seminar-Internship in Preventative Law for the Elderly 12 hrs. 4 crs. Study of theoretical and practical aspects of elder law and case development coupled with structured field work in an agency or senior citizen center. Preq: credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. hours lecture, 10 hours field placement. For students interested in law school, social work, or community service.

POL396 (Not Liberal Arts) Full-Time Internship in State Governance 1 hrs. 15 crs. Structured field work under CUNY auspices in Albany allows mature students to experience first hand and participate in law making, administrative, or public interest advocacy processes. Special placements in legislative, public agency, or non-profit organization settings are made and supervised by an on-site CUNY director. To reinforce and integrate field experiences, interns attend special courses, issue study forums, and mock legislative or policy making sessions given by resident social scientists. Preq: Junior status, 18 credits in the Behavioral Sciences (at least 9 credits above the 100 level), 2.90 minimum G.P.A., permission of instructor and admission by the appropriate Internship Selection Committee. hours lecture, 33 hours field placement. Openings in each program are limited and filled on a competitive basis. All interns prepare a substantial research report under the direction of a designated York College Political Science Department mentor. Students chosen to participate reside in Albany during the internship and receive cost-of-living stipends. Certified for 7 Liberal Arts Credits.

POL397 (Not Liberal Arts) Full-Time Internship in National Governance 1 hrs. 6 crs. Structured field work under CUNY auspices in Washington D.C. during the summer session allows mature students to experience first hand and participate in law making, administrative, or public interest advocacy processes. Carefully developed placement in legislative, public agency, or non-profit organization settings are made and supervised by an on-site CUNY director. To reinforce and integrate field experiences, interns attend special courses, issue study forums, and mock legislative or policy making sessions given by resident social scientists. Preq: Junior status; 18 credits in Behavioral Sciences (at least 9 credits above the 100 level), 2.90 minimum G.P.A., permission of instructor, and admission by the appropriate Internship Selection Committee. hours lecture, 33 hours field placement. All interns prepare a substantial research report under the direction of a designated York College Political Science Department mentor. Openings in each program are limited and filled on a competitive basis. Students chosen to participate reside in Washington D.C. for seven weeks and receive cost-of-living stipends. Certified for 3 Liberal Arts Credits.

POL402 (Liberal Arts) Aviation Policy Seminar 3 hrs. 3 crs. The course focuses on the management analysis and decision-making process in the running of an aviation enterprise in the contemporary business environment. The course relies heavily on

an airline simulation model wherein the student participants, acting Preq: ENG 125, POL 228 and BUS 335. This is the capstone course for the Aviation Management major.

POL425 (Liberal Arts) Seminar in Civil Liberties 0 hrs. 3 crs. The major areas of concern with civil liberties: political conspiracy, national security, and individual rights; free speech and association; freedom of religion and association; criminal procedure and defendant rights. Preq: 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL444 (Liberal Arts) Seminar in Comparative Foreign Policies 0 hrs. 3 crs. Scope, method, and theory of foreign policy-making; the foreign policies of major actors and blocs of actors in the international political system. Preq: POL 202 and 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL453 (Liberal Arts) Seminar in Global Change 0 hrs. 3 crs. Global capital development and its ramifications; the multinational corporation and the national state; the processes mobilization and democratization. Preq: ENG 125 and 12 credits in Political Science inclusive of POL 202. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL480 (Liberal Arts) Seminar in Contemporary Urban Problems 0 hrs. 3 crs. Intra and cross-national analysis of selected urban phenomena; the nature and distribution of political demands; leadership and decision-making structure; areas of conflict and Problems. Preq: 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL490 (Liberal Arts) Directed Reading and Research 0 hrs. 3 crs. The student and his or her faculty director will develop a mutually acceptable program of intensive readings in an area of special interest to the student. Preq: 12 credits in Political Science and permission of instructor. Hours arranged.

POL491 (Liberal Arts) Directed Reading and Research 0 hrs. 3 crs. The student and his or her faculty director will develop a mutually acceptable program of intensive readings in an area of special interest to the student. Preq: 12 credits in Political Science and permission of instructor. Hours arranged.

POL492 (Liberal Arts) Directed Reading and Research 0 hrs. 3 crs. The student and his or her faculty director will develop a mutually acceptable program of intensive readings in an area of special interest to the student. Preq: 12 credits in Political Science and permission of instructor. Hours arranged.

POL493 (Liberal Arts) Directed Reading and Research 0 hrs. 3 crs. The student and his or her faculty director will develop a mutually acceptable program of intensive readings in an area of special interest to the student. Preq: 12 credits in Political Science and permission of instructor. Hours arranged.

Psychology

PSY102 (Liberal Arts) Introductory Psychology 3 hrs. 3 crs. Basic concepts and methods of contemporary psychology emphasizing the biological basis of behavior, learning, cognition, consciousness, development, stress and personality, abnormal behavior, group behavior, and social interaction. One or more field trips may be required.

PSY200 (Liberal Arts) Intermediate Seminar 3 hrs. 3 crs. Selected topics in Psychology. Preq: PSY 102. 1 hour lecture, 2 hours recitation. Specific areas will be chosen and will reflect student interest.

PSY214 (Liberal Arts) Lifespan Development for Health Professions 3 hrs. 3 crs. Human development from birth through the end of life. Review of theories of human growth and development with emphasis on a lifespan developmental perspective. Topics include intellectual growth, personal and social development, the relationship between physical and mental development, and major developmental tasks at each stage of the life cycle. Application to clinical issues will be emphasized. Preq: PSY 102. Not open to students with credit in PSY 215, PSY 216, or PSY 271. This course may not be substituted for PSY 215 in the psychology major requirements. Students may be required to go on field trips.

PSY215 (Liberal Arts) Human Development I: Infancy/Childhood 3 hrs. 3 crs. Analysis and integration of theoretical conceptions and the empirical evidence for human development from pre-natal life through late childhood, examination of neurophysiological, cognitive, emotional, motivational and behavioral systems. The application of basic concepts to problems of school and clinic. Preq: PSY 102

PSY216 (Liberal Arts) Human Development II: Adolescence/Maturity 3 hrs. 3 crs. A study of the life cycle from adolescence through maturity. Special attention to the problems of adolescence and early adulthood and the changing psychological needs of the mature adult. Love, marriage, careers, sex roles and stereotypes, partnership and parenthood. The application of basic concepts to problems of school and clinic. Preq: PSY 215.

PSY217 (Liberal Arts) Psychology for Parents 3 hrs. 3 crs. Techniques and strategies that parents can use to more effectively deal with, and improve on, their interactions with their children. Particular emphasis will be given to age appropriate expectations, parenting styles, generational changes and family characteristics, cultural and gender differences, childhood development and learning, and day care. Preq: PSY 102.

PSY219 (Liberal Arts) Psychology of Terrorism 3 hrs. 3 crs. This course will consider the definition and various forms of terrorism, as well as the strengths and weaknesses of terrorism typologies. Various forms of political, religious, and cultural terrorism will be examined, as well as their causes. Psychological Preq: ENG 125 and PSY 102

PSY225 (Liberal Arts) Psychology of Learning Disabilities 3 hrs. 3 crs. Scope and origins of learning disorders; current views, theories, and research concerned with the etiology and remediation

of specific learning disorders. Preq: PSY 102. Field trips may be required.

PSY236 (Liberal Arts) The Psychology of Women 3 hrs. 3 crs. The empirical and theoretical formulations regarding the psychology of the human female, including sexuality, pregnancy, psychological functioning, achievement, life styles and the development of gender differences. Offered alternate Spring semesters. Preq: Psychology 102

PSY250 (Liberal Arts) Practicum in Interviewing 5 hrs. 4 crs. The principles, dynamics, and practice of interviewing; how to interview, the do's and don'ts of interviewing, the appraisal interview, the personnel interview, the structured interview, the open-ended interview, group interviews, the intake and counseling interview in psychology and social work, the exit interview, the interview in social science research. Practice interviewing during the laboratory component. Preq: PSY 102 and permission of department. 2 hours lecture, 1 hour recitation, 2 hours laboratory.

PSY251 (Liberal Arts) Organizational Behavior 3 hrs. 3 crs. This course will examine the interactions between individuals, groups and organizations. Key to this examination will be the use of both traditional perspectives from Organizational Psychology (i.e. an academic/behavioral-science orientation) and emerging trends in the field of Organizational Psychology (i.e. an experiential approach). A significant proportion of class time will be spent in experiential activities regarding organization behavior. Preq: PSY 102

PSY252 (Liberal Arts) Leadership, Motivation and Power 3 hrs. 3 crs. Theories of leadership; effect of leadership on individual and group motivation; special emphasis on the realities of power in management. Preq: PSY 102 Not open to students with credit in PSY 351. Not offered on a regular basis. Availability to be determined by the department.

PSY253 (Liberal Arts) Industrial/Organizational Psychology 3 hrs. 3 crs. This course will examine the field of Industrial/Organizational psychology, which is the application of the methods, research findings and principles of psychology to people at work. In this course we will objectively examine the fit between the demands and resources of both people and their work environment. Specifically, we will examine the factors which affect the fit between people and the work environment, the results of good fit and bad fit, and attempts to modify both people and the work environment to improve fit. Preq: PSY 102. Course sections may be offered as asynchronous online course.

PSY254 (Liberal Arts) Conflict Resolution and Management 3 hrs. 3 crs. Analysis of emerging conflicts within organizations; attitudes towards such conflicts; exploration of varied approaches to conflict and resolution. Preq: PSY 102. Not offered on a regular basis. Availability to be determined by the department.

PSY255 (Liberal Arts) Psychology of Advertising and Marketing Communications 3 hrs. 3 crs. Psychological analysis of messages communication through various media; the interplay between theories of motivation and the satisfaction and manipulation of human needs and desires. Preq: PSY 102. Not

offered on a regular basis. Availability to be determined by the department.

PSY265 (Liberal Arts) Introduction to Communication Disorders 4 hrs. 4 crs. A survey of the diagnosis and treatment of speech, language and hearing disorders resulting from physical and sensory impairments in children and adults. Preq: PSY 102.

PSY280 (Liberal Arts) Psychology of Geriatrics 3 hrs. 3 crs. Survey of views and research concerned with psychological issues of late adulthood: physiological changes, memory, intelligence and creativity, personality and mental health, and coping strategies in later life. Preq: PSY 102. Field trips to selected institutions concerned with geriatric care may be required.

PSY282 (Liberal Arts) Psychology of Vocational Rehabilitation 3 hrs. 3 crs. Basic concepts in the philosophy, historical development, principles, and practices of vocational rehabilitation. Preq: PSY 102. Not offered on a regular basis. Availability to be determined by the department.

PSY283 (Liberal Arts) The Psychology of Death and Dying 3 hrs. 3 crs. The psychology of death and dying; formation and development of concepts, attitudes and values about death; rational and irrational emotions associated with death; cross-cultural approaches to death and dying; suicide and euthanasia; grief and bereavement. Preq: PSY 102.

PSY289 (Liberal Arts) Psychology of Addiction 3 hrs. 3 crs. An overview of the theory, etiology, and treatment of various addictive disorders. Attention will be given to substance abuse, alcoholism, smoking, gambling, eating disorders, and compulsive anxiety and psychosexual disorders. Preq: PSY 102.

PSY290 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY291 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY292 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY293 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY294 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work

supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY295 (Not Liberal Arts) Field Work 1 hrs. 1 crs. Supervised experience in the field under the guidance of faculty advisor in Psychology. Preq: PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.

PSY300 (Liberal Arts) Interpersonal Skills for Community Service 1 hrs. 2 crs. An introduction to the psychosocial and interpersonal principles and practices necessary to work effectively in a variety of community service agencies and educational settings. Emphasis will be placed on exploring attitudes towards people who are different from ourselves, as well as the role of Gender, Race, Ethnicity, Culture and Class. Preq: credits in Psychology; ENG 125. Coreq: PSY 31. hour lecture, 2 hours laboratory.

PSY301 (Liberal Arts) Practicum in Community Service 4 hrs. 2 crs. Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. Preq: 6 credits in Psychology; ENG 125. Coreq: PSY 31. 4 hours field work.

PSY302 (Liberal Arts) Practicum in Community Service 4 hrs. 2 crs. Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. Preq: PSY 301. 4 hours field work.

PSY303 (Liberal Arts) Practicum in Community Service 4 hrs. 2 crs. Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. Preq: PSY 301. 4 hours field work.

PSY311 (Liberal Arts) Psychology of the Religious Experience 3 hrs. 3 crs. A comprehensive overview of the psychological dimensions of religiosity and religious experience. Connections between psychology and related disciplines and the tenets of selected religions will be discussed from the expanded psychological perspective. Preq: 6 credits in Psychology; ENG 125.

PSY313 (Liberal Arts) \$ Sensation & Perception 4 hrs. 3 crs. Consideration of basic sensory and perceptual processes. Extensive experience with computerized and hands-on laboratory experiments. Students will conduct individual research projects. Preq: 6 credits in Psychology; ENG 125. Not open to students with credit in PSY 212 or PSY 213. 2 hours lecture, 2 hours laboratory. Field trips may be required.

PSY319 (Liberal Arts) \$ Human Cognitive Laboratory 4 hrs. 3 crs. In-depth examination of human problem solving, concept formation, creativity, intelligence, perception, attention, memory and mnemonics, language, knowledge representation, and artificial intelligence. This course may be offered as an online course Preq: credits in Psychology; ENG 125. hours lecture, 2 hours laboratory.

PSY321 (Liberal Arts) \$ Psychology of Learning Laboratory 4 hrs. 3 crs. In-depth consideration of basic learning processes; Pavlovian conditioning, operant conditioning, the nature of reinforcement, discrimination, generalization, memory processes, motivation and human learning including verbal learning; related to

current theory and application. Preq: 6 credits in Psychology, ENG 125. Not open to students with credit in PSY 221. Students will conduct weekly supervised laboratory exercises. 2 lecture hours, 2 laboratory hours.

PSY326 (Liberal Arts) Statistical Methods in Psychology 4 hrs. 3 crs. Descriptive and inferential statistics in psychological research. Preq: 6 credits in Psychology; ENG 125, MATH 111 or MATH 121. Not open to students with credit in PSY 205 or PSY 206. 2 hours lecture, 2 hours laboratory.

PSY327 (Liberal Arts) Advanced Statistical Methods 4 hrs. 3 crs. An advanced consideration of the application of statistics and probability to behavioral data; linear regression analyses, one-way and two-way anova; factorial designs; selected advanced topics. Preq: PSY 326. 2 hours lecture, 2 hours laboratory.

PSY328 (Liberal Arts) Human Factors Psychology 3 hrs. 3 crs. The discipline of human factors psychology considers the design of equipment and work and living environments from the perspective of the person who will use them. This course will take an applied cognitive psychology approach to human factors and study w Preq: ENG 125, PSY 102 and PSY 326 or ECON 220

PSY330 (Liberal Arts) Foundations of Research Methods in Psychology 3 hrs. 3 crs. An introduction to the theoretical and methodological foundations of research in psychology. As part of this inquiry, students will explore the professional literature of the discipline by learning to access, read, summarize, and interpret published research. Through course projects students will gain familiarity with APA style, library resources as well as on-line resources such as PsychInfo and InfoTrac. Preq: 6 credits in Psychology. ENG 125; WRIT 301, WRIT 302 or WRIT 303 Coreq: WRIT 31, WRIT 32 or WRIT 33 Course sections may be offered as asynchronous online courses. This is a Writing Intensive Course

PSY332 (Liberal Arts) Social Psychology 3 hrs. 3 crs. Selected topics in person perception, socialization, the development of attitudes and values, leadership, group structure and processes, language and communication, intergroup relations, social change, and mass behavior. Preq: 6 credits in Psychology; ENG 125. Field trips may be required.

PSY333 (Liberal Arts) Black Psychology 3 hrs. 3 crs. Provides a critical review of accumulated psychological research concerning the description, explanation and interpretation of the behavior of Black Americans. The impact of various social, psychological, cultural, economic and political variables will be related to Black family organization, personality, language and intellectual development, physical and mental health, educational and occupational aspirations and achievements, and political behavior. Preq: 6 credits in Psychology; ENG 125.

PSY334 (Liberal Arts) Personality 3 hrs. 3 crs. Conceptual and methodological problems in the study of human personality. Consideration of the major contributions of biological, psychodynamic, trait, cognitive, humanistic, and behavioral approaches. Methods of study and evaluation of personality; critical review of contemporary research. Preq: 6 credits in Psychology; ENG 125.

PSY335 (Liberal Arts) Exceptional Child 3 hrs. 3 crs. Children requiring special consideration as a result of exceptional characteristics; high I.Q., special talents, mentally retarded, brain damaged, aphasic, emotionally disturbed, or culturally deprived. Preq: PSY 215 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.

PSY337 (Liberal Arts) Child Abuse and Neglect 3 hrs. 1 crs. Overview of child abuse/neglect. Topics include: historical review, definitions and classifications; problem identification and prevalence; laws; role of professionals/societal institutions; theories and dynamics; consequences; prevention and/or treatment. Preq: PSY 215 and ENG 125. 3 hours for 5 weeks. Not offered on a regular basis. Availability to be determined by the department.

PSY338 (Liberal Arts) Abnormal Psychology 3 hrs. 3 crs. Selected topics in psychopathology stressing the experimental approach: models of psychopathology; anxiety, dissociative, mood, and personality disorders; substance abuse and sexual disorders; schizophrenia; disorders of childhood and adolescence; and methods of treatment. Preq: 6 credits in Psychology; ENG 125.

PSY340 (Liberal Arts) Clinical Health Psychology 3 hrs. 3 crs. The application of psychological knowledge and methods to the understanding, treatment, and prevention of mental and physical disorders. Topics include stress and the immune system, chronic illnesses, preventive care, and the development of coping skills. Preq: 6 credits in Psychology; ENG 125.

PSY342 (Liberal Arts) Practicum in Group Dynamics 5 hrs. 4 crs. Observation and analysis of the small group as a social system in a miniature society created by the students. Theoretical examination of group cohesiveness, conformity, norms and standards, power and influence processes, leadership, performance of group functions, and structural properties of groups. Preq: 6 credits in Psychology; ENG 125. 1 hour lecture, 1 hour recitation, 3 hours laboratory. Field trips may be required.

PSY352 (Liberal Arts) Psychological Assessment 3 hrs. 3 crs. Principles and methods of psychological assessment: test theory and construction, the measurement of intelligence and achievement, assessment of personality, neuropsychological evaluation, occupational tests, and review of current research in psychological assessment. Preq: PSY 326, ENG 125.

PSY353 (Liberal Arts) Approaches to Psychotherapy 3 hrs. 3 crs. Cognitive, behavioral, humanistic, psychopharmacological, and psychodynamic approaches to human behavior change. Preq: 6 credits in Psychology; ENG 125.

PSY362 (Liberal Arts) Physiological Psychology 3 hrs. 3 crs. Selected topics in the biological bases of behavior: evolution and genetics, structure and function of the nervous system, and neural and endocrine processes that impact on cognition, emotion, learning, memory, motivation, and perception. Preq: 6 credits in Psychology; ENG 125.

PSY370 (Liberal Arts) Psychology of Consciousness 3 hrs. 3 crs. Recent theory, research, and techniques in the study of human and animal consciousness, physiological correlates, models

of consciousness, altered states, traditional and esoteric approaches, and contemporary developments. Preq: 6 credits in Psychology; ENG 125.

PSY381 (Liberal Arts) Psychological Consequences of Chronic Disability 4 hrs. 3 crs. Differing approaches to understanding, evaluating and treating the functional and psychological consequences of chronic disability. Behavior disorders, substance abuse, and neurological impairment are considered. Independent site visits to agencies serving individuals with disabilities are required, providing practical experience. Preq: PSY102, ENG 125, Junior status. 3 lecture hours, 1 laboratory hour.

PSY383 (Liberal Arts) Behavior Modification 3 hrs. 3 crs. An introduction to behavior modification theory, practice and research including the applied analysis of human behavior techniques for behavioral intervention and change; topics include the examination of learning theory approaches to abnormal behavior, parenting, education, everyday social behavior (e.g. shyness, obesity, smoking, etc.), self-control, physical illness and social systems; special consideration of the ethics of behavior modification is included. Preq: 6 credits in Psychology; ENG 125. One or more field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

PSY385 (Liberal Arts) Practicum in Behavior Modification 7 hrs. 4 crs. Application of acquired behavior modification techniques within an applied setting (e.g., hospital, clinic, school, etc.) under the direct supervision of the instructor. Preq: PSY 383 Limited enrollment. 6 hours supervised field work, 1 hour recitation. Not offered on a regular basis. Availability to be determined by the department.

PSY387 (Liberal Arts) Biofeedback 3 hrs. 3 crs. Theories, research and applications of biofeedback, the concept of self regulation; management of electromyographic (EMG), thermal, electrodermal (GSR, SPR) and electroencephalographic (EEG), responses and processes; implications of Biofeedback for clinical psychology, psychiatry, medicine, dentistry, rehabilitation, education and research; hands on experience with, and demonstration of, instrumentation and methods during laboratory component. Preq: 6 credits in Psychology, ENG 125.

PSY390 (Liberal Arts) Community Psychology 3 hrs. 3 crs. An in-depth examination of the theoretical foundations of Community Psychology and the principles of action search. Topics covered will include social and environmental risk factors for mental health problems and prevention of mental disorders and social Preq: ENG 125 and 6 credits in Psychology.

PSY401 (Liberal Arts) History of Psychology 3 hrs. 3 crs. Development of contemporary psychology as a science including such systemic approaches as structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, and cognitive and evolutionary psychology. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY430 (Liberal Arts) Experimental Methods 6 hrs. 4 crs. Application of the scientific method to experimental, correlational,

observational, and survey design and the ethics of research. Students will conduct a literature review, formulate and design a research proposal, collect data and analyze results, and prepare a professional level research report in accordance with APA style. Preq: PSY 221, PSY 326, and Senior status. Not open to students with credit in PSY 304, PSY 305, and PSY 306. 2 hours lecture, 4 hours laboratory.

PSY454 (Liberal Arts) Seminar in Organizational Psychology 3 hrs. 3 crs. The nature of organizations and organizational behavior; employer-employee relationships; personnel selection, training, motivation and measurement of job satisfaction; the individual and the organization; role of the psychologist in industry. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Not offered on a regular basis. Availability to be determined by the department. Field trips may be required.

PSY480 (Liberal Arts) Advanced Seminar in Psychology 3 hrs. 3 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY481 (Liberal Arts) Advanced Seminar in Psychology 3 hrs. 3 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY482 (Liberal Arts) Advanced Seminar in Psychology 3 hrs. 3 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY490 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY491 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY492 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY493 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY494 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or

WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY495 (Liberal Arts) Independent Study and Experimental Research 0 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

Puerto Rican Studies

PRST241 (Liberal Arts) Puerto Ricans in New York 3 hrs. 3 crs. The life styles of Puerto Ricans as responses to the social, political, and economic conditions of New York. Preq: Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.

PRST242 (Liberal Arts) Puerto Rican Society and Culture I 3 hrs. 3 crs. The Indigenous and Spanish period; the culture, values, and social structure of Puerto Rico prior to the Spanish conquest and colonization; social change in Puerto Rico stemming from the impact of Spanish colonization on the pre-colonial social structure. Preq: Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.

PRST243 (Liberal Arts) Puerto Rican Society and Culture II 3 hrs. 3 crs. The impact of the United States; the culture, values, and social structure of Puerto Rico as a response to the effects of American domination. Preq: Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.

Russian

RUS101 (Liberal Arts) Elementary Russian I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of language.

RUS102 (Liberal Arts) Elementary Russian II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: RUS 101.

SEEK Counseling Seminar

SKCS102 (Liberal Arts, NOT Liberal Arts for Accounting Major) Psychological, Social and Academic Development 2 hrs. 2 crs. A forum for students to discuss a variety of topics related to their college roles and responsibilities, including personal development, interpersonal relationships, academic demands, career choices, and college resources. Preq: Entering SEEK Freshmen Not open to students with credit in SD 101 or SD 110. Open only to students in the SEEK Program.

SKCS103 (Liberal Arts, NOT Liberal Arts for Accounting Major) Developing Self Awareness for Academic Success 2 hrs. 2 crs. This course incorporates an interdisciplinary perspective

which will provide students the opportunity to develop deeper insight into personal and social issues that impact their academic success. The topics covered include personal development, interpersonal Preq: SKCS 102 or AD 102 Open only to students in the SEEK Program.

SKCS110 (Liberal Arts, NOT Liberal Arts for Accounting Major) Developing Coping Strategies for Academic Success 2 hrs. 1 crs. An examination of human behavior as it relates to developing the appropriate coping strategies, learning techniques and study skills needed to promote academic success. Not open to students with credit in SD 101 or SD 110. Open only to students in the SEEK Program

Science Education

SCED570 (Not Liberal Arts) Advanced Methods in High School Science Instruction 7 hrs. 4 crs. An intensive four week summer program for experienced high school science teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in the specific area and in current teaching methods. Preq: Acceptance in Project Leadership. hours lecture, 5 hours laboratory. The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics.

SCED571 (Not Liberal Arts) Field Activities in Science Education 6 hrs. 2 crs. A follow-up to Science Education 570 in which students will attend and participate in workshops at the college and their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials. Preq: SCIEN 570. 6 hours field work.

SCED572 (Not Liberal Arts) Survey of Physical Science Topics for Elementary Teachers 4 hrs. 3 crs. An intensive two week summer program for teachers of grades 4-6 to improve knowledge and methods for teaching physical science. Topics will include electricity, magnetism, light, force, energy, motion and heat. Preq: Acceptance in Project STEPPS (Science Teacher Enhancement Program in Physical Science) or permission of instructor 2 hours lecture, 2 hours laboratory. This course will be offered on a Pass/Fail basis.

SCED573 (Not Liberal Arts) Practicum in Physical Science for Elementary Teachers 4 hrs. 3 crs. A continuation of Science Education 572. Participants will attend and actively participate in a series of nine, seven-hour workshops on Saturdays. Topics will include: geology, weather, astronomy, sound and chemistry. Preq: SCIEN 572. 2 hours lecture, 2 hours laboratory. This course will be offered on Pass/Fail basis.

Social Work

SCWK101 (Not Liberal Arts) Introduction to Social Work 3 hrs. 3 crs. Social Work and its values viewed from historic and contemporary perspectives; emphasis on settings where social work is practiced; opportunity for career discovery and orientation.

SCWK203 (Not Liberal Arts) Social Welfare Programs and Policies 3 hrs. 3 crs. Consideration of socio-economic conditions that have influenced the development of major contemporary social welfare institutions; emphasis on the interrelationships of social problems and policies, social welfare systems, and the values of contemporary society; introduction to social policy analysis. Preq: SCWK 101, POL 103, SOC 101 or ENG 125. Coreq: ENG 125.

SCWK293 (Not Liberal Arts) Social Work Practicum 8 hrs. 3 crs. Direct service contact in professionally supervised settings, opportunity to gain practical knowledge about the structure and function of social services and bureaucratic organizations; integration of field and classroom learning in seminar format. Preq: SCWK 101; PSY 215, SCWK 203, ENG 125. Coreq: PSY 215, SCWK 23, ENG 125. 2 hours lecture, 6 hours field work. Field placement is for six daytime hours per week.

SCWK300 (Not Liberal Arts) Generalist Social Work Practice I and Skills Laboratory 4 hrs. 3 crs. Examination of the generalist model of social work practice with focus on intervention with individuals. Development of the professional, communication and interviewing skills in the laboratory. Preq: SCWK 203, SCWK 293; AC 101, ANTH 101, PSY 216. Coreq: AC 11, ANTH 11, PSY 216. 2 hours lecture, 2 hours laboratory. This course may be offered as an H-WEB course.

SCWK330 (Not Liberal Arts) Social Welfare Problems and Issues 3 hrs. 3 crs. A forum for the consideration of pressing contemporary social welfare issues affecting the quality of life in New York City such as child abuse, arson, homelessness, etc. Preq: Junior status. Not offered on a regular basis. Availability to be determined by the department.

SCWK350 (Not Liberal Arts) Social Research I 4 hrs. 3 crs. Introduction to the logic of inquiry; the construction and interpretation of social indicators and demographic measures; the organization and analysis of quantitative data in social research, including the use of micro-computers for graphic and statistical analysis and presentation. Preq: SCWK 300. Coreq: SCWK 3. Not open to students with credit in SOC 220 or ANTH 220 2 hours recitation, 2 hours laboratory. This course may be offered as an H-WEB course (50% of instruction will occur on line and 50% in class). Course is cross listed with SOC 220 and ANTH 220

SCWK360 (Not Liberal Arts) Human Behavior and the Social Environment 3 hrs. 3 crs. Integration of social science knowledge with the generalist model of practice to support intervention. Emphasis on human diversity and oppression. Preq: Admission into the Social Work Program, SCWK 300.; Two Group II courses and SCWK 350. Coreq: Two Group II courses and SCWK 35.

SCWK370 (Not Liberal Arts) Generalist Social Work Practice II 3 hrs. 3 crs. Continued examination of the generalist model of social work practice with focus on intervention with families and small groups. Development of professional skills in referral, assessment, goal setting, contracting, termination and evaluation. Preq: SCWK 350, SCWK 360, WRIT 303. Coreq: SCWK 35, SCWK 36, WRIT 33.

SCWK400 (Not Liberal Arts) \$ Generalist Social Work Practice III 3 hrs. 3 crs. Continued examination of the generalist model of social work practice with focus on intervention with formal organizations and communities. Development of professional skills in direct action, advocacy, bargaining, conflict resolution and evaluation. Preq: SCWK 350, SCWK 360, SCWK 370. Coreq: SCWK 35, SCWK 36, SCWK 37. This is a writing intensive course.

SCWK410 (Not Liberal Arts) \$ Field Placement and Seminar I 16 hrs. 6 crs. Supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly on-campus seminar. Preq: Acceptance into Field Placement, SCWK 360, SCWK 370.; SCWK 400. Coreq: SCWK 4. 2 hours lecture, 14 hours field work. Permission required for repeating the course. Placements are from 9:00 a.m. to 5:00 p.m. on two weekdays per week for a minimum of 200 hours for the semester.

SCWK470 (Not Liberal Arts) Social Research Methods II 3 hrs. 3 crs. Application of the scientific method, the logic of experimentation, and rules of evidence to social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics. Preq: SCWK 350.; SCWK 400, SCWK 410. Coreq: SCWK 4, SCWK 41. Not open to students with credit in SOC 321 or ANTH 321 Course is cross listed with SOC 321 and ANTH 321

SCWK480 (Not Liberal Arts) Social Welfare Policy 3 hrs. 3 crs. Social policy analysis; emphasis on the various conceptions of social policy and the elements that influence social welfare decision making; the relationship between social policy and social work practice; development of analytic al techniques needed for problem evaluation and policy change. Preq: SCWK 410, SCWK 470. Coreq: SCWK 47. Not open to students with credit in Social Work 401. The Hybrid course will be conducted using the Blackboard course management system. Students must have an email account and access to the internet. Students must register for a CUNY portal account, if they do not already have one. There will be a minimum of twelve (12) in-class hours held on pre selected dates scheduled throughout the semester. All other class interaction will take place on-line using Blackboard. The Blackboard features that will be used are: Announcements, Assignments, Course Calendar, Course Documents, Course Information, Discussion Board, Digital Drop Box, Email, External Links, Gradebook, and Tasks. All course documents and assignments are available in the appropriate sections of Blackboard (e.g. Course Documents and Assignments) as text or as attachments.

SCWK492 (Not Liberal Arts) \$ Field Placement and Seminar II 16 hrs. 6 crs. Continuation of supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly, on-campus seminar. Preq: SCWK 410, SCWK 470 & SCWK 480. Coreq: SCWK 47 & SCWK 48. 2 hours lecture, 14 hours field work. In the Spring semester, this course begins the first week of January. Permission required for repeating the course. Placements are from 9:00 a.m. to 5:00 p.m. on two weekdays per week for a minimum of 200 hours for the semester.

Sociology

SOC101 (Liberal Arts) Introductory Sociology 3 hrs. 3 crs. Introduction to the basic premises of sociology; the role of social factors as a determinant of human behavior; the formation and function of social institutions; the logic of sociological inquiry.

SOC201 (Liberal Arts) Sociological Analysis 3 hrs. 3 crs. Introduction to basic sociological concepts and perspectives with an emphasis on their uses in sociological research and theory. Preq: SOC 101, ENG 125, or 9 credits in Behavioral Sciences. Primarily designed for sociology majors. This is a Writing Intensive Course.

SOC202 (Liberal Arts) Major Ideas and Issues in Education 3 hrs. 3 crs. An introduction to the major historical, philosophical, and sociological ideas in American Education, including the history of schooling in the United States. Historical threads from a variety of multicultural perspectives will be presented, and philosophical approaches from selected global thinkers will be discussed. The student will be encouraged to develop his/her own unique philosophy of education. Preq: ENG 125. Not open to students with credit in PHIL 202. Includes seven (7) hours of fieldwork. Required for all teacher education students. This course is cross listed with PHIL 202. THIS IS A WRITING INTENSIVE COURSE

SOC220 (Liberal Arts) Social Research I 4 hrs. 3 crs. Introduction to the logic of inquiry; the construction and interpretation of social indicators and demographic measures; the organization and analysis of quantitative data in social research, including the use of micro-computers for graphic and statistical analysis and presentation. Preq: SOC 101. Not open to students with credit in ECON 220, PSY 205, PSY 206, SCWK 220 or SCWK 350. 2 hours recitation, 2 hours laboratory. This course is cross listed with ANTH 220 and SCWK 350

SOC226 (Liberal Arts) Survey Research I: Planning and Design of Research 6 hrs. 4 crs. Formulation of research problem, development of hypotheses and research design, including sample design and selection. Word processing other computer skills. Concepts learned will be applied to student's own research project. Preq: Sophomore status, SOC 220, or permission of instructor. Not open to students with credit in SOC 326. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.

SOC227 (Liberal Arts) Survey Research II: Data Collection, Processing and Analysis 6 hrs. 4 crs. Continuation of project initiated in Sociology 226. Data collection and statistical analysis of data, use of statistical computer programs, report organization and write-up. Concepts learned will be applied to student's own research projects. Preq: SOC 226 or permission of instructor. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.

SOC231 (Liberal Arts) Sociology of Small Groups 3 hrs. 3 crs. Small group life, intergroup relations, group process, interaction of group members and leader; skill training in the use of sociometrics, role playing, process analysis and evaluation; emphasis on social climate, techniques of involvement, and productivity especially as

applicable in the classroom. Preq: SOC 101. Not offered on a regular basis. Availability to be determined by the department.

SOC235 (Liberal Arts) Ethnicity 3 hrs. 3 crs. Survey of the major ethnic groups in the United States; emphasis on the meaning of classifying individuals into ethnic groups, leading theories concerning the sources of prejudice and discrimination, and the changing place of various groups in the stratification structure. Preq: SOC 101. Not offered on a regular basis. Availability to be determined by the department.

SOC236 (Liberal Arts) Sociology of Aging 3 hrs. 3 crs. A study of the trends in the roles and status relationships of the aged in the family structures and in the other institutional arrangements of Western Societies, including the economic, political, leisure, medical, etc. Preq: SOC 101 or permission of instructor.

SOC238 (Liberal Arts) Industrial Sociology 3 hrs. 3 crs. Comparative view of industrial systems; focus on work roles, collective bargaining, and the relationships of industry to other social institutions and to stratification. Preq: SOC 101. Not offered on a regular basis. Availability to be determined by the department.

SOC239 (Liberal Arts) Sociology of Work 3 hrs. 3 crs. Occupational institutions, recruitment, training, and careers; relation between work and other social roles; changes in the composition of the labor force. Preq: SOC 101

SOC243 (Liberal Arts) Sociology of Leisure 3 hrs. 3 crs. An analysis of the origins and uses of time and of its relationship to other institutions. Preq: SOC 101. Not open to students with credit in SOC 343. Not offered on a regular basis. Availability to be determined by the department.

SOC245 (Liberal Arts) Medical Sociology 3 hrs. 3 crs. Normative aspects of health and illness, diagnosis, treatment and rehabilitation in the contexts of community and group organization. Preq: SOC 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

SOC247 (Liberal Arts) Family and Kinship 3 hrs. 3 crs. Kinship systems in various types of societies, with attention to marriage, the family, and related institutions in their various cultural contexts; the changing forms, functions, and values of the family in an urban-industrial setting. Preq: SOC 101. Not offered on a regular basis. Availability to be determined by the department.

SOC252 (Liberal Arts) Social Problems 3 hrs. 3 crs. Major and persistent social concerns; the contribution of sociological theory in tracing their sources, effects, and possible modes of control. Preq: SOC 101 or other introductory courses in the Behavioral Sciences. Not offered on a regular basis. Availability to be determined by the department.

SOC255 (Liberal Arts) Deviance and Social Control 3 hrs. 3 crs. Various forms of social deviance and the processes established for their control; particular emphasis on criminology. Preq: SOC 101. Not open to students with credit in SOC 254, formerly Criminology. Not offered on a regular basis. Availability to be determined by the department.

SOC271 (Liberal Arts) Sociology of Education 3 hrs. 3 crs. Social structure of the school; the community's impact on the school system; the teaching profession; effects of ethnic composition of the community and student population on the school; the school as a social and urban institution. Preq: SOC 101; no prerequisite for Education students Not offered on a regular basis. Availability to be determined by the department.

SOC289 (Liberal Arts) Urban Sociology 3 hrs. 3 crs. The uniqueness of city life; the organization and structure of cities as it affects the lives of its citizens and the forms of its social institution; the urban crisis and relevant policy implications. Preq: SOC 101. Not offered on a regular basis. Availability to be determined by the department.

SOC290 (Liberal Arts) Field Work and Research 0 hrs. 3 crs. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited Preq: 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC291 (Liberal Arts) Field Work and Research 0 hrs. 2 crs. Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements. Preq: 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC292 (Liberal Arts) Field Work and Research 0 hrs. 1 crs. Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements. Preq: 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC312 (Liberal Arts) Sociological Theory 3 hrs. 3 crs. Major sociological theories from the 19th century classical works to the present schools of thoughts with a focus on Marx, Durkheim, Weber and selected contemporary theorists. Preq: SOC 201 and WRIT 301 or WRIT 302 or WRIT 303. Coreq: WRIT 31 or WRIT 32 or WRIT 33. This is a Writing Intensive Course.

SOC314 (Liberal Arts) Social Structure and Personality 3 hrs. 3 crs. Sociological examination of the individual in society; problems of relating sociological and psychological phenomena and processes through the works of Marx, Durkheim, Freud, Bernstein, and Marcuse. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC321 (Liberal Arts) Social Research Methods II 3 hrs. 3 crs. Application of the scientific method, the logic of experimentation, and rules of evidence to social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics. Preq: Junior status and 12

credits in Sociology, including SOC 220. Not open to students with credit in SCWK 321 or SCWK 470.

SOC325 (Liberal Arts) Field Research Practicum 6 hrs. 4 crs. Practice in conduct of field research including the techniques of participant observation and interviewing, and interpretation of data collected by these means. Preq: Junior status, 12 credits in Sociology, and permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

SOC333 (Liberal Arts) Social Stratification 3 hrs. 3 crs. Social class and status in the United States; the causes and consequences of the distribution of power. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements.

SOC334 (Liberal Arts) Complex Organizations 3 hrs. 3 crs. Organizational theory, with focus on U.S. organizations; their social origins; the effects of organizations on their members; patterns of authority, work content and occupational structure in contemporary society. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC338 (Liberal Arts) Sociology of Gender and Sexuality 3 hrs. 3 crs. The social, cultural, and historical construction of gender and sexuality; gender and sexual orientation as a mechanism of stratification; the effects of sexism and heterosexism; feminist theory, queer theory, and the intersection of gender, race, class, and nation. Preq: SOC 101 Coreq: SOC 11

SOC341 (Liberal Arts) Political Sociology 3 hrs. 3 crs. Power and influence; the role of legitimation; the emergence, nature, and exercise of leadership; and political socialization. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC342 (Liberal Arts) Sociology of Higher Education 3 hrs. 3 crs. Institutional and comparative analysis of higher education with particular emphasis on relationship between higher education and economic, political, cultural, and demographic structures and processes. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC344 (Liberal Arts) Sociology of Religion 3 hrs. 3 crs. Religion as a social phenomenon present in all societies; focus on relations between religion and economic, political, and family institutions; the structure and evolution of different types of religious organizations; and theories of the origin and functions of religion. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC346 (Liberal Arts) Selected Topics in Social Institutions 3 hrs. 3 crs. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC347 (Liberal Arts) Selected Topics in Social Institutions

3 hrs. 3 crs. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis.

SOC348 (Liberal Arts) Selected Topics in Social Institutions

3 hrs. 3 crs. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis.

SOC351 (Liberal Arts) Qualitative Research Methods and Analysis

4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews – individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social and behavioral science disciplines. Preq: credits in ANTH, BLST, or SOC Coreq: credits in ANTH, BLST, or SOC This course may be offered as a traditional class or a hybrid. This course is cross listed with ANTH 351 and BLST 351.

SOC354 (Liberal Arts) Criminal Justice Administration

3 hrs. 3 crs. Law enforcement agencies, courts, prisons and rehabilitation agencies, their structure, personnel, and impact on communities and "clients," problems of reform and change. Preq: SOC 101 and SOC 255, or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

SOC364 (Liberal Arts) Social Change

3 hrs. 3 crs. Structural and cultural change in community and society; rate and degree of change, mechanisms of change, and planning of change; major theories of social change. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements.

SOC365 (Liberal Arts) Collective Behavior

3 hrs. 3 crs. Causes of major forms of collective behavior, e.g., riots, panics, social movements; the impact of collective behavior on society. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC366 (Liberal Arts) Sociology of Modernization and Development

3 hrs. 3 crs. Sociological analysis of the destruction of tribal and the formation of national communities in the process of modernization and development with particular attention to Africa. Comparison with the small town and the city in Western societies. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements.

SOC381 (Liberal Arts) Population Problems

3 hrs. 3 crs. Major population trends; social and psychological factors associated with

population changes; basic concepts, techniques, and data employed in population analysis. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.

SOC390 (Liberal Arts) Field Work and Research

0 hrs. 3 crs. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC391 (Liberal Arts) Field Work and Research

0 hrs. 2 crs. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC392 (Liberal Arts) Field Work and Research

0 hrs. 1 crs. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC401 (Liberal Arts) Seminar: Advanced Topics in Sociology

0 hrs. 3 crs. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. Preq: Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. Hours arranged. Topics vary from semester to semester and are announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

SOC402 (Liberal Arts) Seminar: Advanced Topics in Sociology

0 hrs. 3 crs. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. Preq: Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. Hours arranged. Topics vary from semester to semester and are announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

SOC403 (Liberal Arts) Seminar: Advanced Topics in Sociology

0 hrs. 3 crs. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. Preq: Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. Hours arranged. Topics vary from semester to

semester and are announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.

SOC411 (Liberal Arts) Sociology of Knowledge 0 hrs. 3 crs. Relationship between social structures and scientific, legal, religious and aesthetic forms as developed in the works of Durkheim, Marx, Weber, and Mannheim. Preq: SOC 101, SOC 312, SOC 344. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC412 (Liberal Arts) Seminar: Contemporary Issues in Sociological Theory 3 hrs. 3 crs. Twentieth-century sociological theory with reference to contemporary issues as radical social theory and phenomenological sociology. Preq: Senior status and SOC 312. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC490 (Liberal Arts) Independent Reading in Sociology 0 hrs. 3 crs. Supervised individual readings on sociological topics not covered by other courses. Preq: Junior status and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

Spanish

SPAN101 (Liberal Arts) Elementary Spanish I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. Preq: Placement by department. Not open to students with credit in SPAN 113.

SPAN102 (Liberal Arts) Elementary Spanish II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: SPAN 101 or placement by department. Not open to students with credit in SPAN 114.

SPAN103 (Liberal Arts) Essential Spanish for the Bilingual Student I 3 hrs. 3 crs. The essentials of orthography, accentuation and syntax for students with oral proficiency in Spanish who have not studied syntax. Preq: Placement by department or permission by department. Not open to students with credit in SPAN 101 or SPAN 102.

SPAN104 (Liberal Arts) Essential Spanish for the Bilingual Student II 3 hrs. 3 crs. A continuation of the study of basic Spanish grammar and reading integrating the use of audio and visual materials. Designed for students who wish to acquire more knowledge of the language and for bilingual and native speakers who have basic knowledge of Spanish syntax. Preq: SPAN 103 or placement by department.

SPAN105 (Liberal Arts) Intermediate Spanish I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; functional review of grammar. Separate sections of this course are given for native and non-native speakers of Spanish in order to best serve the students needs. Placement in the proper section is determined by the discipline. Preq: SPAN 102 or SPAN 103 or SPAN 104 or placement by department.

SPAN106 (Liberal Arts) Intermediate Spanish Composition 3 hrs. 3 crs. Development of writing proficiency on the intermediate level using revision and editing techniques, augmented by selected contemporary literary texts. Preq: SPAN 105 or placement by department.

SPAN107 (Liberal Arts) Intermediate Spanish for Special Purposes 3 hrs. 3 crs. A special topics course on the intermediate level designed to give students language instruction focused on a specific area such as Health Professions, Social Work or Business. Preq: SPAN 105.

SPAN110 (Liberal Arts) Intensive Elementary Spanish for Health Professions 4 hrs. 3 crs. Proficiency-oriented intensive beginners course in Spanish, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and Preq: Department permission required. 2 hours lecture, 2 hours laboratory. This course may be used to fulfill the General Education Requirement in Foreign Languages only for students in Health Professions programs.

SPAN117 (Liberal Arts) Intermediate Spanish for Health Professions 4 hrs. 3 crs. Intermediate course in Spanish, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and writing skills, through tests, oral presentations and short writing assignments. Preq: Placement by department 2 hours recitation, 2 hours laboratory

SPAN180 (Liberal Arts) Intermediate Spanish in the Disciplines I 1 hrs. 1 crs. A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking. Preq: SPAN 107 or placement by department. Not open to students with Spanish credit above the 100 level.

SPAN181 (Liberal Arts) Intermediate Spanish in the Disciplines II 1 hrs. 1 crs. A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking. Preq: SPAN 180. Not open to students with Spanish credit above the 100 level.

SPAN182 (Liberal Arts) Intermediate Spanish in the Disciplines III 1 hrs. 1 crs. A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking. Preq: SPAN 181. Not open to students with Spanish credit above the 100 level.

SPAN200 (Liberal Arts) Introduction to Literary Theory and Analysis 3 hrs. 3 crs. Introduction through close readings of selected texts to a variety of reading approaches and critical methodologies central to the study of literature. Preq: Placement by department.

SPAN201 (Liberal Arts) Hispanic-American Literature from its Origin through Modernismo 3 hrs. 3 crs. Representative authors of Hispanic-American countries up to the 20th century. Preq: SPAN 200.

SPAN202 (Liberal Arts) Hispanic-American Literature after Modernismo 3 hrs. 3 crs. Hispanic-American authors after Modernismo. Preq: SPAN 200.

SPAN203 (Liberal Arts) Hispanic-American Short Story 3 hrs. 3 crs. Critical analysis of the modern short story in Hispanic America. Preq: SPAN 200.

SPAN208 (Liberal Arts) Advanced Grammar 3 hrs. 3 crs. A systematic review of grammar and a study of syntactical peculiarities of modern Spanish. Preq: SPAN 106 and SPAN 107.

SPAN209 (Liberal Arts) Composition and Style 3 hrs. 3 crs. Composition based on the stylistic analysis of readings of representative modern authors. Preq: SPAN 106 and SPAN 107.

SPAN210 (Liberal Arts) Spanish Linguistics 3 hrs. 3 crs. This course will provide students with an overview of the major branches of Spanish linguistics and phonetics. The course will include morphology, phonology, semantics, historical linguistics and geographic variants. Preq: SPAN 106 and SPAN 107. Course will be conducted in Spanish.

SPAN213 (Liberal Arts) Latino Cultures in the U.S. 3 hrs. 3 crs. This course provides an overview of the presence of the presence of the Latino community in the United States from the colonial period to the present. Special attention is given to its diverse heterogeneous composition; migratory trends throughout the Twentieth century; main socio-economic, linguistic and cultural features of each Latino group; major contributions of the Latino population to the Anglo society. Preq: SPAN 106 or SPAN 107. This course will be taught in Spanish.

SPAN221 (Liberal Arts) Spanish Literature to 1700 3 hrs. 3 crs. Survey of major works of Peninsular Spanish Literature from the Middle Ages to 1700. Includes jarchas, troubador poetry, early theatre, golden age poetry, prose and drama. Preq: SPAN 200.

SPAN222 (Liberal Arts) Spanish Literature 1700-Present 3 hrs. 3 crs. Survey of major works of Peninsular Spanish Literature from 1700 to the present. Preq: SPAN 200.

SPAN230 (Liberal Arts) Spanish Literature for Children and Adolescents 3 hrs. 3 crs. The study and analysis of literature written for children and young adolescents in Spanish, in all genres. Preq: SPAN 200 Special attention will be given to regional and national literary traditions and folklore.

SPAN240 (Liberal Arts) Translation I 3 hrs. 3 crs. Developing skills in translation from Spanish to English, English to Spanish; material will be selected from advertising, journalism, literature, business and other technical areas. Preq: SPAN 106 and SPAN 107 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.

SPAN241 (Liberal Arts) Translation II 3 hrs. 3 crs. Continuation of Spanish 240. More extensive translation of commercial, journalistic, literary and scientific texts. Preq: SPAN 241 and ENG 125.

SPAN242 (Liberal Arts) Commercial Spanish 3 hrs. 3 crs. Emphasis on translation of documents, business related materials and newspaper articles, materials obtained from banks, export and import companies, stock exchange, and custom offices dealing with Spanish business transactions. Preq: SPAN 106 or SPAN 107 and ENG 125. The student will be exposed to a wide range of Spanish commercial terminology. Speakers from various business firms will address the students.

SPAN243 (Liberal Arts) Spanish for the Health Professions 3 hrs. 3 crs. This course develops a student's Spanish language proficiency as necessary to function bilingually in health professions. Grammar and vocabulary will be presented in the context of the communicative needs of the health professional. Communication will be Preq: SPAN 106 or SPAN 107; ENG 125 This course will be taught entirely in the target language.

SPAN244 (Liberal Arts) Spanish for the Social Worker 3 hrs. 3 crs. This course develops a student's Spanish language proficiency as necessary to function bilingually in the field of Social Work. Grammar and vocabulary will be presented in the context of the communicative needs of the Social Work Professional. Communicati Preq: SPAN 106 or SPAN 107; ENG 125 This course will be taught entirely in the target language.

SPAN245 (Liberal Arts) Spanish for the Tourism and Travel Industries 3 hrs. 3 crs. This course develops a student's Spanish language proficiency as necessary to function bilingually in the field of the Tourism and Travel Industries. Grammar and vocabulary will be presented in the context of the communicative needs of the travel professi Preq: SPAN 106 or SPAN 107; ENG 125 This course will be taught entirely in the target language.

SPAN280 (Liberal Arts) Advanced Spanish in the Disciplines I 1 hrs. 1 crs. A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline. Preq: Placement by department.

SPAN281 (Liberal Arts) Advanced Spanish in the Disciplines II 1 hrs. 1 crs. A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline. Preq: SPAN 280.

SPAN282 (Liberal Arts) Advanced Spanish in the Disciplines III 1 hrs. 1 crs. A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline. Preq: SPAN 281.

SPAN290 (Liberal Arts) Special Topics 3 hrs. 3 crs. A selected topic in Spanish studies. Preq: SPAN 200. The topic varies with each offering.

SPAN300 (Liberal Arts) Women Writers from Latin America

3 hrs. 3 crs. The wealth of literature written by women from Latin America has been seriously studied and taught since the 1960s. This monographic course examines selected writings from the genres theatre, novel, poetry, and essay from the colonial era to present times, including Nobel Prize winner Rigoberta Menchus chilling biography, I. Rigoberta Menchu. Preq: SPAN 200.

SPAN301 (Liberal Arts) Romanticismo, Indianismo, Naturalismo, Positivismo and Modernismo in the Spanish Speaking Caribbean

3 hrs. 3 crs. Poetry, drama and prose of the nineteenth century through Modernismo in the Spanish speaking Caribbean. Works by such major figures as Villaverde, Gomez de Avellaneda, Galvan, Urena, Zeno Gandia, Hostos, Marti and del Casal will be studied. Preq: SPAN 200.

SPAN302 (Liberal Arts) The Literature of the Spanish Speaking Caribbean after Modernismo

3 hrs. 3 crs. Poetry, drama and prose after Modernismo in the Spanish speaking Caribbean. Works by such major figures as Gonzalez, Franco, Barnett, Carpentier, Ferre, Alvarez, Burgos, Mir and Sanchez will be studied. Preq: SPAN 200.

SPAN303 (Liberal Arts) Dominican Literature

3 hrs. 3 crs. Dominican literature from its beginning to our day. Works by such major figures as Perez, Ortea, Moscoso, Puello, Marrero Aristy, Mir, Cartegena Portalatin, del Cabral, Mejia, Henriquez Urena, Imbert Brugal and Sencion will be studied. Preq: SPAN 200.

SPAN304 (Liberal Arts) Puerto Rican Literature

3 hrs. 3 crs. Introduction to the literature of the Puerto Rican people through the reading of representative works of all genres. Special emphasis placed on the 20th century. Preq: SPAN 200.

SPAN305 (Liberal Arts) Contemporary Theater

3 hrs. 3 crs. Analysis of contemporary Spanish and Hispanic-American plays. Students encouraged to participate in the dramatization and presentation of representative plays. Preq: SPAN 200.

SPAN306 (Liberal Arts) Indigenismo in Twentieth-Century Hispanic-American Fiction

3 hrs. 3 crs. Exploitation of the Indian in the contemporary social novel and short story. Preq: SPAN 200. Not offered on a regular basis. Availability to be determined by the department.

SPAN308 (Liberal Arts) Approaches to Spanish Language Acquisition

3 hrs. 3 crs. The analysis of Spanish whole-language development by the native speaker and the non-native speaker through a contrastive study of English and Spanish Syntax. Preq: SPAN 209, SPAN 210, ENG 125 and EDUC 351. Course will be conducted in Spanish.

SPAN309 (Liberal Arts) Comparative Structures of English and Spanish

3 hrs. 3 crs. Contrastive analysis of the major structural and grammatical differences between English and Spanish. Idiomatic structures, verb tense, aspect and mood, gender, passive voice and other features will be compared and contrasted. Preq: SPAN 208 and ENG 125.

SPAN310 (Liberal Arts) Spanish Sociolinguistics

3 hrs. 3 crs. The major geographical, stylistic, and social dialects of Spanish.

Special attention to bilingualism, regional variations of Spanish, gender discourse and small-group uses of Spanish; language and social mobility; use of Spanish by second and third generation speakers in the U.S. Preq: SPAN 210.

SPAN312 (Liberal Arts) Cuban Literature

3 hrs. 3 crs. This course examines Cuban literature from its beginning to the present through the reading of well-known authors from different historical periods and the inclusion of other important authors whose work, for different reasons, has been underrepresented. Preq: SPAN 200 and SPAN 209

SPAN320 (Liberal Arts) Women Writers from Spain

3 hrs. 3 crs. The wealth of literature written by women from Spain has been seriously studied and taught since the 1960s. This monographic course examines works from the various genres from medieval times to the present. Preq: SPAN 200.

SPAN321 (Liberal Arts) Medieval Spanish Literature

3 hrs. 3 crs. Reading and discussion of the most important authors from the earliest period through the 15th century. Preq: SPAN 200. Not offered on a regular basis. Availability to be determined by the department.

SPAN322 (Liberal Arts) Literature of the Golden Age

3 hrs. 3 crs. Poetry, drama and prose of the 16th and 17th centuries. Works by such major figures as Garcilaso de la Vega, Gongora, Lope de Vega, Calderon, Zayas, etc. Preq: SPAN 200.

SPAN323 (Liberal Arts) Spanish Romanticism and Realism of the 19th Century

3 hrs. 3 crs. Poetry, drama and prose of the 19th century in Spain through the Romantic and Realist periods. Works by such major figures as Becquer, Espronceda, Zorilla, Castro, Arroniz, Fernan Caballero, Valera, Galdos, Pardo Bazan. Preq: SPAN 200.

SPAN324 (Liberal Arts) Generation of 1898 to the Spanish Civil War

3 hrs. 3 crs. Representative Spanish authors from the end of the 19th century to 1936. Preq: SPAN 200.

SPAN325 (Liberal Arts) Spanish Literature after the Spanish Civil War

3 hrs. 3 crs. Novel, drama, essay, and lyric poetry of 20th century Spain after 1936. Preq: SPAN 200

SPAN351 (Liberal Arts) Cervantes

3 hrs. 3 crs. A general survey of Cervante's works with major emphasis on Don Quijote. Preq: SPAN 200 and SPAN 209. This is a writing intensive course.

SPAN413 (Liberal Arts) Hispanic Civilization

3 hrs. 3 crs. A comprehensive survey of Iberian and Hispanic-American culture and institutions: Hispanic contributions to world literature, philosophy, music and fine arts. Preq: SPAN 200 and SPAN 209 This is a writing intensive course.

SPAN414 (Liberal Arts) Seminar: Special Topics

3 hrs. 3 crs. Intensive investigation of trends in Hispanic Literature. Preq: SPAN 200 and SPAN 209. Not offered on a regular basis. Availability to be determined by the department.

SPAN415 (Liberal Arts) Seminar on Poetry 3 hrs. 3 crs. A special topic on poetry. Preq: SPAN 200 and SPAN 209. The topic varies with each offering.

SPAN416 (Liberal Arts) Seminar Narrative Prose 3 hrs. 3 crs. A special topic on the novel and/or short story. Preq: SPAN 200 and SPAN 209. The topic varies with each offering.

SPAN417 (Liberal Arts) Seminar on the Theatre 3 hrs. 3 crs. A special topic on the Theatre. Preq: SPAN 200 and SPAN 209. The topic varies with each offering.

SPAN418 (Liberal Arts) Seminar on an Author 3 hrs. 3 crs. The examination of works by a specific author. Preq: SPAN 200 and SPAN 209. Authors will vary with each offering.

SPAN419 (Liberal Arts) Seminar on Writing 3 hrs. 3 crs. A special topic related to writing. Preq: SPAN 208 and SPAN 209. The topic varies with each offering.

Speech Communication

SPCH101 (Liberal Arts) Oral Communication in Contemporary Society 4 hrs. 3 crs. Persuasion and group communication as a means of making decisions in contemporary society; social problems and the formulation of propositions; the effective use of evidence, inference, motivation, and argument, with special attention given to advocacy and critical refutation; effectiveness in oral communication is stressed through speaking and discussion.

SPCH160 (Liberal Arts) Fundamentals of Oral Interpretation: Prose and Poetry 3 hrs. 3 crs. Appreciating and sharing the literary experience through reading aloud; analysis and evaluation of various selections in order to apply the basic techniques of reading aloud.

SPCH182 (Liberal Arts) Voice and Diction 3 hrs. 3 crs. Basic theory of the production of speech and voice; concepts of standards and usage; the sounds of American English and features of voice; techniques and drills.

SPCH183 (Liberal Arts) Voice and Diction II 3 hrs. 3 crs. Continuation of theory of production of voice and speech with application to text; emphasis on handling the sentence, finding operative words, clarifying contrasts, making back references. Preq: SPCH 182.

SPCH201 (Liberal Arts) Argumentation and Debate 3 hrs. 3 crs. Introduction to the theories, concepts and practice of argumentation and debate. This a dialectical course with a significant amount of time spent in oral presentations, cross-examination and formal debate exercises. The course assumes that the student has an understanding of basic research and public speaking skills. Preq: SPCH 101, ENG 125 or permission of instructor Coreq: SPCH 11, ENG 125 or permission of instructor

SPCH231 (Liberal Arts) Rhetorical Composition 3 hrs. 3 crs. Principles, processes, and methods of persuasion with emphasis on the artful use of language according to various motivational

patterns; critical and creative problems posed by model speeches as preparation for original composition. Preq: SPCH 101 or permission of instructor.

SPCH250 (Liberal Arts) Introduction to Mass Media 3 hrs. 3 crs. The communications media, emphasis on history, scope, function, regulation, and especially social implications. Preq: Sophomore status.

SPCH303 (Liberal Arts) Ethics and the Freedom of Speech 3 hrs. 3 crs. The nature and function of the First Amendment within the context of Supreme Court decisions; origins and substance of ethical considerations which may limit the freedom of speech. Plato, Aristotle, Mill, and various contemporary authors emphasized. Preq: Sophomore status and SPCH 101 or permission of instructor.

SPCH321 (Liberal Arts) Rhetorical Theory and Criticism 3 hrs. 3 crs. Origins and evolution of rhetorical theory and practical criticism from ancient times to the present; emphasis on non-oratorical elements, especially contemporary strategies of social control; practice in the application of theory to current rhetorical transactions. Preq: Sophomore status.

SPCH322 (Liberal Arts) Theories and Types of Persuasion 3 hrs. 3 crs. The influencing of belief and behavior through speech; emphasis on the motivational aspects and their evaluations, the relationship of attitude, belief and value to communication; classical and modern rhetorical theory will be considered in context; application of principles to various modes of persuasion. Preq: Junior status or permission of instructor.

SPCH333 (Liberal Arts) Major American Spokesmen 3 hrs. 3 crs. American oratory by major spokespersons dealing with vital issues and movements in American history; the context of public address, and the ideas, role, and followers of American spokespersons; foreign oratory in translation introduced when necessary. Preq: Junior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

SPCH341 (Liberal Arts) Communications in Small Groups 3 hrs. 3 crs. Principles, psychology, and the methods of group communications; practice sessions in group discussion and discussion leadership from a communications viewpoint.

SPCH350 (Liberal Arts) Persuasion and Propaganda in Mass Media 3 hrs. 3 crs. The nature of persuasion and propaganda as applied to all facets of mass media, both commercial and public. This course explores the implications of persuasion and propaganda through key concepts, theories and applications using contemporary case studies. Preq: SPCH 250 or CT 201. Not offered on a regular basis. Availability to be determined by the department. Outside speakers may address the class.

SPCH390 (Liberal Arts) Special Studies Seminar I 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH391 (Liberal Arts) Special Studies Seminar II 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH392 (Liberal Arts) Special Studies Seminar III 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH490 (Liberal Arts) Independent Research 0 hrs. 3 crs. Intensive individually guided advanced research in a speech area. Preq: Senior status and 12 credits in Speech or permission of instructor. Hours arranged.

Student Development

SD101 (Not Liberal Arts) Developing Individual Life Styles 1 hrs. 1 crs. Consideration of intellectual, emotional, social and vocational aspects of development, with an emphasis on one's personal values. Open to Freshman only. Pass/Fail.

SD102 (Liberal Arts, NOT Liberal Arts for Accounting Major) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD103 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD104 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD105 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD110 (Not Liberal Arts) Developing Success in College 2 hrs. 2 crs. Intensive exploration of study skills techniques, career and vocational development, values formation, learning processes and all areas pertinent to the college experience. Open to Freshmen only. Not open to students with credit in SD 101.

SD120 (Liberal Arts, NOT Liberal Arts for Accounting Major) Individual Career Development 2 hrs. 2 crs. Intensive career exploration from theoretical, practical and personal perspectives; an examination of modes of career exploration and of alternate routes to the world of work; job search techniques; resume writing; the job interview. Not open to students with credit in COOP 101, SD 201 or SD 301.

Study Abroad

STABD1 (Liberal Arts, NOT Liberal Arts for Accounting Major) Study Abroad 1 hrs. 1 crs. See Department for Description

STABD2 (Not Liberal Arts) Study Abroad 2 hrs. 2 crs. See Department for Description

STABD3 (Not Liberal Arts) Study Abroad 3 hrs. 3 crs. See Department for Description

STABD4 (Not Liberal Arts) Study Abroad 4 hrs. 4 crs. See Department for Description

STABD5 (Not Liberal Arts) Study Abroad 5 hrs. 5 crs. See Department for Description

STABD6 (Not Liberal Arts) Study Abroad 6 hrs. 6 crs. See Department for Description

STABD7 (Not Liberal Arts) Study Abroad 7 hrs. 7 crs. See Department for Description

STABD8 (Not Liberal Arts) Study Abroad 8 hrs. 8 crs. See Department for Description

STABD9 (Not Liberal Arts) Study Abroad 9 hrs. 9 crs. See Department for Description

STABD10 (Not Liberal Arts) Study Abroad 10 hrs. 10 crs. See Department for Description

STABD11 (Not Liberal Arts) Study Abroad 11 hrs. 11 crs. See Department for Description

STABD12 (Not Liberal Arts) Study Abroad 12 hrs. 12 crs. See Department for Description

Swahili

SWA101 (Liberal Arts) Elementary Swahili I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.

SWA102 (Liberal Arts) Elementary Swahili II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical

structures, integrated readings and further practice in conversation.
 Preq: SWA 101. Offered when the demand exists.

Theatre Arts

TA110 (Liberal Arts) Introduction to the Theatre 3 hrs. 3 crs. Theatrical theory in historical context beginning with the Greeks. Including written play analysis and the application of this analysis to concepts of lighting, costuming, scene design, and performance. At the end of the semester students participate in a short class production. Field trips may be included and outside speakers may be invited.

TA112 (Liberal Arts, NOT Liberal Arts for Accounting Major) Voice and Stage Movement for Actors I 4 hrs. 3 crs. Intensive instruction in voice and speech for acting: voice production, range expansion and control, sound formation and delivery. 1 hour lecture, 1 hour recitation, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

TA113 (Liberal Arts, NOT Liberal Arts for Accounting Major) Voice and Stage Movement for Actors II 4 hrs. 2 crs. Continuing study in stage movement, including mime, mask work, and stylized movement; continuing work in voice and speech, including classical performance, dialects, accents. Preq: SPCH 112. 1 hour lecture, 3 hours studio. Not offered on a regular basis. Availability to be determined by the department.

TA114 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Stagecraft I 4 hrs. 3 crs. An introduction to the study of the elements, the theories, the methods, and the materials used in modern theatre technology. This course will examine the elements of drama, their interaction, and their realization in the theatrical production process, focusing on the organization of theatre personnel, the architecture, the equipment, and the techniques used in the construction, theory, and execution of scenery, lighting, and costumes. Mandatory attendance at (and evaluation of) theatrical performances, both on and off campus required.

TA115 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Stagecraft II 4 hrs. 3 crs. Continuation of TA 114; emphasis on scenery, stage properties, and work of the stage manager. Crew assignments involving outside class hours required. Field trips may be included and outside speakers may be invited.

TA116 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Introduction to Stage Management 3 hrs. 3 crs. This course is a comprehensive survey of the role of the stage manager within the development of a theatrical production from inception to completion. This includes reading and discussion of major plays, their breakdown and technical needs. Students will learn the work that is necessary to run a professional production and the importance of the stage management position. This includes practical work on rehearsals and performances of the York College Theatre semester shows as well as guest speakers and outside trips. Preq: ENG 125

TA210 (Liberal Arts) History of Theatre 3 hrs. 3 crs. The development of Western Theatre from the classic Greek period to

the modern era, with emphases on major plays and playwrights, various forms of theatrical presentation, architecture and design of theatres, and acting styles of each period. Readings in Preq: ENG 125 This is a Writing Intensive course.

TA211 (Liberal Arts) Basic Acting 4 hrs. 3 crs. The elements of acting; physical and vocal relaxation and concentration; sense memory and emotional recall; prepared scenes and improvisations. Preq: ENG 125. Field trips may be included and outside speakers may be invited.

TA212 (Liberal Arts) Scene Study 4 hrs. 3 crs. Continuation of TA 211: emphasis on character analysis and techniques of character portrayal. Preq: TA 211 or permission of the department. Field trips may be included and outside speakers may be invited. Not offered on a regular basis.

TA215 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Studies in Theatre Practice I 5 hrs. 3 crs. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Preq: Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.

TA216 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Studies in Theatre Practice II 5 hrs. 3 crs. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Preq: Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.

TA217 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Studies in Theatre Practice III 5 hrs. 3 crs. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Preq: Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.

TA218 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Studies in Theatre Practice IV 5 hrs. 3 crs. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Preq: Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.

TA219 (Liberal Arts, NOT Liberal Arts for Accounting Major) \$ Studies in Theatre Practice V 5 hrs. 3 crs. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Preq: Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.

TA261 (Liberal Arts) Intermediate Oral Interpretation: Drama 3 hrs. 3 crs. Theory, technique, and practice of the interpretation of drama; some attention to non-interpretative view

points: the author, critic, philosopher, and auditor. Preq: SPCH 160.

TA311 (Liberal Arts) \$ Fundamental of Directing 4 hrs. 3 crs.

Directorial controls: concentration on various methods of realizing the theatrical content of a given script; work required on major production as assistant director, stage manager, or assistant stage manager. Preq: TA 115 and TA 211 or permission of instructor. Field trips may be included and outside speakers may be invited.

TA314 (Liberal Arts) Computer Design for the Stage 4 hrs.

3 crs. A review of the history of the architectural elements in theatrical scenic design: AutoCad and DesignCad programs used for construction and display. Drawing techniques in 2-D and 3-dimensional format. Preq: TA 110 and TA 114, basic computer skills and /or permission of instructor. 1 hour lecture, 1 hour recitation, 2 hours laboratory.

TA316 (Not Liberal Arts) Performance for Television 4 hrs.

3 crs. History, theory and practice of television performance as distinct from stage performance. Includes dramatic and non-dramatic forms of presentation that can be adapted to the professional goals of the students. Preq: SPCH 160 or TA 211 or permission of instructor. hour lecture, 1 hour recitation, 2 hours laboratory. Original writing required for some assignments. Outside speakers may be invited.

TA317 (Liberal Arts) Theatrical Criticism 3 hrs. 3 crs.

Principles of dramatic criticism from Aristotle to the present day; critical standards and methods; their application in the evaluation of drama in performance. Preq: TA 115 and TA 211 or permission of instructor. Attendance at theatrical performances required. Outside speakers may be invited.

TA390 (Liberal Arts) Special Studies Seminar I 3 hrs. 3 crs.

An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and department permission required. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA391 (Liberal Arts) Special Studies Seminar II 3 hrs. 3 crs.

An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and permission of instructor The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA392 (Liberal Arts) Special Studies Seminar III 3 hrs. 3 crs.

An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and permission of instructor The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA411 (Liberal Arts) History of Avant-Garde Performance 3

hrs. 3 crs. Trends in modern theatre-experimental theatre groups, new techniques, new playwrights discussed; the historical foundations of these trends traced to their sources in Symbolism and Expressionism. Preq: TA 110 or permission of instructor. Written work and attendance at New York avant garde performances are required.

TA490 (Liberal Arts) Independent Research 0 hrs. 3 crs.

Intensive individually guided advanced research in a theatre arts area. Preq: Senior status and 12 credits in Theatre Arts or permission of instructor. Hours arranged.

World Literature

WLIT201 (Liberal Arts) The Literature of the Western World

Through the Renaissance 3 hrs. 3 crs. A comparative approach to European literature of the Classical, Medieval and Renaissance periods, in translation. Genres to be covered include mythology and the development of epic and lyric poetry, narrative poetry and prose and the theatre. Students will read works from Classical Greece and Rome, France, England, Germany, Scandinavia, Ireland, Spain, Italy, Portugal, etc. This course is Writing Intensive. Preq: ENG 125. Not open to students with credit in English 211. This is a writing intensive course.

WLIT205 (Liberal Arts) Introduction to Francophone

Literature 3 hrs. 3 crs. Contemporary literature written in French from the West Indies, North and Sub-Saharan Africa. Preq: ENG 125. This course proposes to read the most interesting and problem-revealing works which have been translated into English.

WLIT206 (Liberal Arts) Introduction to the Literature of the

Caribbean 3 hrs. 3 crs. Introduction to the Literature of the Caribbean. Preq: ENG 125.

WLIT207 (Liberal Arts) Introduction to Latin American

Literature 3 hrs. 3 crs. Introduction to the literature of Latin America. Preq: ENG 125.

WLIT210 (Liberal Arts) North African Literature in

Translation 3 hrs. 3 crs. This course will use a comparative approach to explore the critical and theoretical understanding of the works of some of the most important North African authors from diverse ethnic backgrounds (Arab, Berber, French and Jewish) in translation. This interdisciplinary course will cover such themes as: colonialism, post-colonialism and neo-colonialism; Islam and modernity; antagonistic cultures and reconciliation; patriarchy; European and North African cultural identities. This course is a designated Writing Intensive (WI) course. Preq: ENG 125 This is a writing intensive course.

WLIT211 (Liberal Arts) Italian Theatre in Translation 3 hrs.

3 crs. The modern dramatists Luigi Pirandello and Ugo Betti; the plays of such dramatists as Alfieri and Goldoni; the establishment and influence of Italy's famed commedia dell'arte. Preq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

WLIT212 (Liberal Arts) Masterpieces of Spanish Literature in

Translation 3 hrs. 3 crs. Representative works from the origins of Spanish Literature to the present. Preq: ENG 125. Not credited toward fulfillment of Spanish Major requirements. Not offered on a regular basis. Availability to be determined by the department.

WLIT225 (Liberal Arts) Introduction to Latino Literature in

the U.S. 3 hrs. 3 crs. Introduction to the literature of Latinos in the U.S. Preq: ENG 125.

WLIT226 (Liberal Arts) Contemporary Women Writers in World Literature 3 hrs. 3 crs. Introduces students to significant literature written by women in the 19th and 20th centuries throughout the world. Preq: ENG 125. 3 hours lecture.

WLIT230 (Liberal Arts) Divine Comedy in Translation 3 hrs. 3 crs. This course will examine the Divine Comedy as the masterpiece of Dante Alighieri and Italian Literature, as well as one of the most significant works of the World Literature. After a careful introduction to 13th and 14th century European and Italian historical and cultural contexts, we will read key cantos from the Inferno, the Purgatorio, and the Paradiso. Oral presentations may be required. Preq: ENG 125 Not offered on a regular basis. Availability to be determined by department.

WLIT326 (Liberal Arts) Womens Writing: The Quest for the Self through Memory 3 hrs. 3 crs. This course analyzes the place and role of History and Memory in some contemporary Caribbean Francophone and Hispanophone texts from diverse cultures throughout the world, which present and reveal the role of the politic versus the private, the public versus the psyche. The course will focus on novels and short stories written in or translated into English, whose voices have a testimonial dimension. This course will be taught as a Writing Intensive course Preq: ENG 125 and WRIT 301 This is a writing intensive course.

Writing

WRIT301 (Liberal Arts) Research and Writing for the Major 4 hrs. 3 crs. Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are drawn primarily from the humanities and social sciences. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines. Preq: Junior status and completion of ENG 125 2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses or as fully asynchronous online courses.

WRIT302 (Liberal Arts) Research and Writing for the Sciences, Mathematics, and Technology 4 hrs. 3 crs. Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are drawn primarily from the areas of science and technology. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines. Preq: Junior status and completion of ENG 125 2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses or as fully asynchronous online courses.

WRIT303 (Liberal Arts) Research and Writing for Professional Programs 4 hrs. 3 crs. Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are drawn primarily from areas pertinent to professional concerns. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines. Preq: Junior status and completion of ENG 125 2 hours lecture, 2 hours laboratory.

Course sections may be offered as hybrid online courses or as fully asynchronous online courses.

Yiddish

YID101 (Liberal Arts) Elementary Yiddish I 4 hrs. 4 crs. Basic principles of a beginner's course; designed to give the foundations of language. Offered when the demand exists.

YID102 (Liberal Arts) Elementary Yiddish II 4 hrs. 4 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: YID 101. Offered when the demand exists.

Youth Development

YD280 (Liberal Arts) Theory and Practice 4 hrs. 3 crs. Surveys the field of developmental psychology, with an emphasis on resiliency theory and strengths-based perspectives on youth development. Principles of developmental psychology lay the groundwork for practices working with children and youth. Topics covered Preq: ENG 125 This course carries a Liberal Arts designation. The course includes 28 hours of supervised field experiences in educational environments that focus on the study of child and adolescent development as it relates to teaching and learning. Students with prio

YD283 (Liberal Arts) Building Learning Communities 4 hrs. 3 crs. Surveys the field of educational psychology, with an emphasis on teaching practices that help build learning communities. Drawing upon various theories and related practices, students will learn how to design learning objectives, curriculum plans, interdi Preq: YD 280 This course carries a Liberal Arts designation.

YD290 (Liberal Arts) Action Research for Educators 2 hrs. 2 crs. Supports educators to become reflective practitioners able to define, research, and then address problems and issues within their practice. The course supports students working in a wide variety of educational settings to locate ideas for research within Preq: YD 280, YD 283 This course carries a Liberal Arts designation.

Materials and Transportation Fees		
Course	Material fee	Transportation Fee
BIO 201	\$25	
BIO 202	\$25	
BIO 234	\$50	
BIO 235	\$50	
BIO 265	\$50	
BIO 281	\$50	
BIO 301	\$50	
BIO 308	\$25	
BIO 309	\$25	
BIO 320	\$50	
BIO 334	\$25	
BIO 403	\$25	
BIO 415	\$50	
BIO 444	\$50	
BIO 452	\$50	
BIO 465	\$50	
BIO 466	\$50	
BIO 480	\$50	
BTEC 350	\$25	
BTEC 352	\$25	
BTEC 480	\$50	
BTEC 489	\$25	
CHEM 101	\$25	
CHEM 102	\$25	
CHEM 105	\$25	
CHEM 232	\$25	
CHEM 234	\$25	
CHEM 235	\$25	
CHEM 241	\$25	
CHEM 341	\$25	
CHEM 342	\$25	
CHEM 421	\$25	
CHEM 490	\$25	
CHEM 491	\$25	
CHEM 492	\$25	
CHEM 493	\$25	
EDUC 268	\$15	
EDUC 280	\$20	
EDUC 283	\$20	
EDUC 284	\$25	
EDUC 317	\$20	
EDUC 320	\$20	
EDUC 323	\$20	
EDUC 330	\$20	
EDUC 333	\$35	
EDUC 340	\$30	
EDUC 341	\$20	
EDUC 369	\$15	
EDUC 370	\$30	

EDUC 373	\$20	
EDUC 375	\$20	
EDUC 377	\$20	
EDUC 381	\$20	
EDUC 418-459	\$30	
FA 155	\$30	
FA 258	\$25	
FA 264	\$30	
FA 265	\$30	
FA 273	\$15	
FA 274	\$15	
FA 355	\$30	
FA 381	\$15	
FA 382	\$15	
GEO 110	\$15	
GEO 120	\$15	
GEO 121	\$15	
GEO 140	\$25	
GEO 207	\$25	
GEO 211	\$40	
GEO 217	\$40	
GEO 225	\$40	
GEO 323	\$40	
GEO 334	\$40	
GEO 340	\$40	
GEO 341	\$40	
GEO 411	\$40	
GEO 425	\$75	
GEO 441	\$40	
HE 200	\$5	
HPEH 351	\$40	
HPEH 420	\$40	
HPEH 428	\$40	
HPGC 212 (lab)	\$75	
HPMT 252	\$100	
HPMT 330	\$100	
HPMT 332	\$100	
HPMT 341	\$100	
HPMT 343	\$100	
HPMT 351	\$100	
HPMT 352	\$100	
HPMT 357	\$100	
HSPA 313	\$100	
HSPA 401	\$100	
HSPA 402	\$100	
HSPA 450	\$75	
HSPA 451	\$75	
HSPA 452	\$75	
HSPA 453	\$75	
HSPA 454	\$75	
HSPA 455	\$75	
HSPA 457	\$75	
HSPA 458	\$75	

HSPA 459	\$75	
NURS 210	\$105	
NURS 310/340	\$85	
NURS 320	\$105	
NURS 415/430	\$85	
NURS 420	\$85	
LIBRARY	\$10.00	
OT 423		\$25
OT 505		\$25
OT 506	\$35	
OT 523	\$75	
OT 644	\$70	
OT 647	\$10	
PE 170	\$95	\$20
PE 178	\$95	\$30
PE 179	\$350	\$30
PE 279	\$95	\$30
PE 280	\$220	\$30
PHYS 151	\$20	
PHYS 152	\$20	
PSY 313		\$30
PSY 319	\$50	
PSY 321	\$40	
TA 114	\$30	
TA 115	\$30	
TA 116	\$25	
TA 215 Section TBA 1	\$60	
TA 215 Section TBA 2	\$30	
TA 215 Section TBA 3	\$60	
TA 216 Section TBA 1	\$60	
TA 216 Section TBA 2	\$30	
TA 216 Section TBA 3	\$60	
TA 217 Section TBA 1	\$60	
TA 217 Section TBA 2	\$30	
TA 217 Section TBA 3	\$60	
TA 218 Section TBA 1	\$60	
TA 218 Section TBA 2	\$30	
TA 218 Section TBA 3	\$60	
TA 219 Section TBA 1	\$60	
TA 219 Section TBA 2	\$30	
TA 219 Section TBA 3	\$60	
TA 311	\$25	
AAS 101		\$20
SCWK 400		\$30
SCWK 410	\$30	
SCWK 492	\$30	

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- McFarquhar, Claudette**, Associate Professor, Health Professions
- McGee, Daniel**, Associate Professor, English - PhD, Johns Hopkins University; MA, Johns Hopkins University; BA, Williams College
- McNeil, Gerard**, Associate Professor and Chair, Biology - PhD, University of Massachusetts Medical School; BS, University of Massachusetts Dartmouth
- Meddeb, Elizabeth**, Associate Professor, Foreign Languages - PhD, Columbia University; M Ed, Columbia University; MA, Columbia University; BA, Richmond University
- Metcalf, Eric**, Assistant Professor, Performing & Fine Arts - PhD, University of Massachusetts, Amherst; MA, University of Massachusetts, Amherst; BA, University of New Hampshire, Durham
- Milanes, Patricia**, Lecturer, English - MA, Hunter College, CUNY; BA, York College, CUNY

Mokrue, Kathariya, Assistant Professor, Behavioral Sciences - PhD, Rutgers University; MS, Rutgers University; BA, Hunter College-CUNY

Moldovan, Vadim, Associate Professor, Social Sciences - PhD, Yeshiva University, Wurzweiler School of Social Work; MSW, Yeshiva University, Wurzweiler School of Social Work

Moore, Thomas, Assistant Professor, English - MS, Columbia University; BS, Fairfield University

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Profit, Adam, Assistant Professor, Chemistry - PhD, SUNY Stony Brook; BS, Lehman College of CUNY

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- Schleifer, Stanley**, Associate Professor, Earth and Physical Sciences - PhD, Earth and Environmental Sciences; MA, Geology; BS, Geology
- Serant, Claire**, Lecturer, English - MS, Columbia University; BS, St. John's University
- Sharpe, Michael**, Assistant Professor, Behavioral Sciences - PhD, CUNY Graduate Center; MPhil, CUNY Graduate Center; MIA, Columbia University; certificate, Institute of Social Studies, The Hague, The Netherlands; BA, Rutgers College / Rutgers University
- Shearin-Patterson, Tonya**, Assistant Professor, Health Professions - MS, Adelphi University; BS, St. John's University
- Sheidlower, Scott**, Assistant Professor, Library - MLS, Queens College/CUNY; MA, New York University; MA, New York University; BA, Hunter College/CUNY
- Simon, Anne**, Assistant Professor, Biology - PhD, University of Paris XI, FRANCE; MS, University of Paris XI, FRANCE; BS, University of Paris XI, FRANCE
- Small, Yolanda**, Assistant Professor, Chemistry - PhD, Penn State University; BS, University of Houston
- Smickle, Winsome**, Lecturer, Behavioral Sciences - non-degree, Pace University; MA, Adelphi University; BA, York College
- Smith, Michael**, Assistant Professor, Performing & Fine Arts - MFA, Tufts University, School of the Museum of Fine Arts; MS, University of Chicago; BS, Holy Cross College
- Stern, Lorraine**, Assistant Professor, Accounting and Finance - MS, CW Post; BA, Queens College
- Su, Di**, Associate Professor, Library - MLS, SUNY-Albany; MM, University of Connecticut; MM, West Virginia University; BA, Shanghai Conservatory of Music
- Sunmonu, Adefemi**, Associate Professor, Mathematics and Computer Science - PhD, University of Pittsburgh; MS, University of Pittsburgh; MS, University of Ife; BS, University of Nigeria
- Swoboda, Debra**, Associate Professor, Behavioral Sciences - PhD, SUNY Stony Brook; MA, SUNY Stony Brook; BA, SUNY Stony Brook
- Thompson, Virginia**, Doctoral Lecturer, Mathematics and Computer Science - EDD, Teachers College Columbia University; MA, Teachers College Columbia University; BS, CUNY York College
- Urban, Sandra G.**, Assistant Professor, Library - MA, Queens College/CUNY; MLIS, Rutgers University; BA, Salisbury University
- Vasquez, Eva**, Associate Professor, Foreign Languages, ESL and Humanities - PhD, City University of New York Graduate School; MA, Hunter College; BA, University of Puerto Rico
- Villegas, Francisco**, Associate Professor, Behavioral Sciences - PhD, City University of New York; BA, City College, City University of New York
- Wang, Vivian**, Assistant Professor, Math & Computer Science - PhD, Oklahoma State University; MS, Oklahoma State University; BE, University of Science and Technology Beijing
- Weisblatt, Steve**, Instructor, CLIP
- Werber-Zion, Galila**, Associate Professor, Health and Physical Education - PhD, University of Florida; MS, Tel Aviv University
- White, George**, Associate Professor, History and Philosophy - PhD, Temple University; JD, Harvard Law School
- Wojciechowski, Radoslaw**, Assistant Professor, Mathematics and Computer Science - PhD, City University of New York; BS, Indiana University
- Wolosin, Dora**, Assistant Professor, Earth and Physical Sciences - PhD, New York University; MS, Hebrew University of Jerusalem; BS, Hebrew University of Jerusalem
- Wright, Renee**, Assistant Professor, Health Professions - EDD, Teacher's College, Columbia University; MA, Teacher's College, Columbia University; BS, Pace University; AAS, Phillips Beth Israel School of Nursing
- Wu, Tsu-Chih**, Professor, Mathematics and Computer Science - PhD, Columbia University; MS, Tsinghua University; BS, Taiwan University
- Zhang, Danyang**, Assistant Professor, Math & Computer Science - PhD, University of Alabama; MS, University of Alabama; MS, Peking University; BS, Peking University
- Zhang, Xiaodan**, Associate Professor, Social Sciences - PhD, Columbia University; MA, Columbia University; MA, CUNY Graduate Center; BA, East China Normal University
- Zlabinger, Thomas**, Lecturer, Performing and Fine Arts - PhD, Graduate Center / CUNY; MA, Queens College / CUNY; certificate, McNally Smith College of Music; BA, Grinnell College

Adjunct Faculty

A part of the instructional program of the college is carried out by adjunct or part-time faculty. Use of adjunct faculty permits flexibility in staffing and thereby accommodates changes in enrollment patterns among disciplines without major effects on full-time staffing. Adjunct faculty hold the same qualifications as do full-time faculty. Their instructional activities are under the supervision of the department chairs and their course offerings are integral parts of the disciplines' educational programs.

Professors Emeriti

Anderson, Valerie, Professor Emerita, English

Young, Hope, Professor Emerita, Library

Andretta, Helen, Professor Emerita, English

Ashton, Vicki, Professor Emeritus, Social Sciences

Como, James, Professor Emeritus, Performing and Fine Arts

Cooper, Alan, Professor Emeritus, English

Dick, Stuart, Professor Emeritus, Behavioral Sciences

Ernst, David, Professor Emeritus, Performing And Fine Arts

Jain, Duli, Professor Emeritus, Earth and Physical Sciences

Karp, Eric, Professor Emeritus, Behavioral Sciences

Kirkpatrick, Carolyn, Professor Emerita, English

Malkevitch, Joseph, Professor Emeritus, Mathematics and Computer Science

Nickolich, Barbara, Professor Emerita, Performing and Fine Arts

Ostholm, Shirley, Professor Emerita, Behavioral Sciences

Ranis, Peter, Professor Emeritus, Behavioral Sciences

Richards, Lynne, Professor Emerita, Chemistry

Rosenberg, Sidney, Professor Emeritus, Behavioral Sciences

Scheiner, Peter, Professor Emeritus, Chemistry

Schlein, Jack, Professor Emeritus, Biology

Shilling, Wynne, Professor Emeritus, Teacher Education

Simkin, Phillips, Professor Emeritus, Performing and Fine Arts

Stern, Daniel, Professor Emeritus, Behavioral Sciences

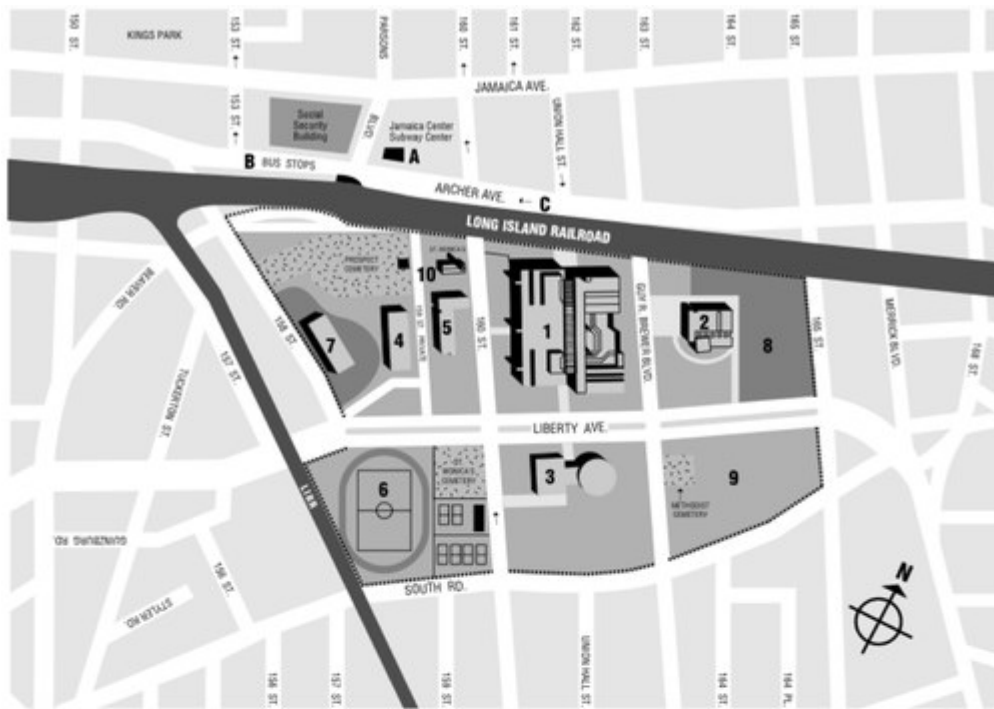
Strassberg, Helen, Professor Emeritus, Mathematics and Computer Science

Tenywa, Francis, Professor Emeritus, Behavioral Sciences

Walker Ray, Jacqueline, Professor Emeritus, Behavioral Sciences

Wynne, J. Donald, Professor Emeritus, Behavioral Sciences

Campus Map



York College Facilities

1. (AC)	Academic Core Building 94-20 Guy R. Brewer Boulevard (Office of Admissions, Rm. 1B07)
2. (AT)	Performing Arts Center 94-45 Guy R. Brewer Boulevard
3. (HP)	Health and Physical Education Building 160-02 Liberty Avenue
4. (SC)	Science Building 94-50 159th Street
5. (CL)	Classroom Building 94-43 159th Street
6.	Athletic Fields 95-50 160th Street
7.	FDA Regional Office and Field Laboratory 158-15 Liberty Avenue
8.	East Parking Lot Guy R. Brewer Boulevard
9.	Site of future Student Counseling Services Building
10.	St. Monica's Church Site of future York College Child Care Center 94-20 160th Street

Public Transportation

A.	Jamaica Center Subway Station — *E*, *J*, *Z* Trains
B.	Jamaica Center Bus Terminal
C.	Jamaica Station LIRR 8 blocks west at Sutphin Boulevard

Travel Directions to York College

Transportation facilities for reaching York College's main location at 94-20 Guy R. Brewer Blvd. are as follows:

BROOKLYN

Subway: BMT "J" or "Z" train to Jamaica Center (Parsons/Archer).

Bus:

Q-8	Euclid & Pitkin Aves. to Archer Ave. & Guy R. Brewer Blvd.
Q-24	Atlantic Ave. to Parsons Blvd. & Jamaica Ave.
Q-54	Metropolitan Ave to Guy R. Brewer Blvd. & Jamaica Ave.
Q-56	Jamaica Ave. to Guy R. Brewer Blvd.

Academic Achievement Center	34	CLIP	41
Academic Advisement Center	34	Cognitive Neuroscience (Minor)	119
Academic Computing (Special Program)	104	collegiate newspaper	32
Academic Deficits	49	Committee on Academic Standards	50
Academic Probation	52	Communications Technology (BS)	105
Academic Probation and Retention	52	Communications Technology (Minor)	106
academic program	53	Community Health Education (BS)	133
Accounting (BS)	111	Computer Applications in Business (Minor)	115
ACE	43	Computer Science (BS)	100
Adjunct faculty	278	Computer Science (Minor)	100
Admission to Health Professions Programs	123	Continuing and Professional Education	43
Advisement	34	Counseling Department	28
Alumni Affairs	36	Course Withdrawals	45
Alumni Association	37	CPV	49
Anthropology (BA)	142	Creative Writing (Minor)	90
Anthropology Childhood Education (BA)	148	Credits	56
Anthropology (Minor)	143	credits for a Bachelor's degree	56
Appeal of Denial	50	Creole (Minor)	92
Appeal of Dismissal	50	Cultural Diversity (Special Program)	97
Applying for Graduation	53	Cumulative Point Value	49
Art History (BA)	104	CUNY Aviation Institute at York College	42
Astronomy (Minor)	85	CUNY Language Immersion Program	41
Athletic	36	CUNY L.E.A.D.S.	29
Attendance	46	Dean's List	49
Aviation Institute	42	Disabilities	29
Aviation Management (BS)	112	Division of Academic Affairs	270
Aviation Policy (Minor)	119	Division of Administrative Affairs	271
Biology (BA)	80	Division of Student Development	271
Biology (BS)	81	Early-Alert System	35
Biology Childhood Education (BA)	149	Earth Science/Education 7-12 (BS)	152
Biology/ Education 7-12 (BS)	150	Economics (BA)	115
Biology (Minor)	82	Economics Childhood Education (BA)	153
Biotechnology (BS)	82	Economics (Minor)	115
Biotechnology (Minor)	83	Employment, Academics, Disabilities and	29
Black Studies (BA)	143	English as a Second Language (ESL) (Preparatory Program)	92
Black Studies Childhood Education (BA)	150	English (BA)	90
Black Studies (Minor)	144	English Childhood Education (BA)	153
Board of Trustees	270	English Education/Middle School Extension (BA) ...	154
Business Administration (BS)	113	English (Minor)	91
Business Administration - Entrepreneurship (BS) ...	114	Entrepreneurship	113
Business Administration - Finance (BS)	114	Environmental Health Science (BS)	85
Business Administration - Human Resource (BS) ...	115	Environmental Science (Minor)	86
Business Administration (Minor)	114	E-Permits	45
Campus Resources	38	Excess Credit Allowance	50
Career Services	29	Extension of Incomplete (INC) Grade	50
CAS	50	Fees	14
Certificates and Awards	27	Finance	113
Change of Major	46	French and Francophone Studies (Minor)	93
Change of Program	45	French (BA)	93
Chemistry (BS)	83	French Childhood Education (BA)	155
Chemistry Childhood Education (BS)	151	French Education/Middle School Extension (BA)	156
Chemistry/ Education 7-12 (BS)	152	Freshman Admission	7
Chemistry (Minor)	84	Freshman Reader Program	35
Classification of Students	47	Freshman Year Experience	35
Clinical Laboratory Science / Medical Technology (BS)	123	Full-Time Status	45

FYE	35	Mathematics (BS)	102
Game Room.....	32	Mathematics Childhood Education (BA)	159
General Education Requirements	53	Mathematics Education 7-12 (BS)	160
General Education Requirements (Transfer Students) .	9	Mathematics Education/Middle School Extension (BA)	161
Geology (BS)	86	Mathematics (Minor)	103
Gerontological Studies and Services (BS).....	133	Medical Anthropology (Minor)	143
Gerontology (Minor).....	134	Medical Physics Option	88
GPA	49	Men's Center.....	32
grade.....	47	Mentoring Program	35
Grade Appeal	51	Merit Scholars Program	26
Grade Change.....	51	Military Science	1
Grade Point Average	49	Mortgage Finance (Certificate Program)	116
Grade Point Averages.....	56	Mortgage Finance (Minor)	116
Grading.....	47	Movement Science (BS).....	135
Graduating Terms.....	54	Music (BA).....	106
Graduation Honors	54	Music Childhood Education (BA).....	162
Graduation Requirements	53	Music (Minor)	107
Health Education (Minor)	134	Non-Degree Admission	10
Health Promotion Management (BS)	134	NOT Liberal Arts courses.....	56
Health Service Center	31	Nursing (BS).....	124
History (BA)	97	Nursing - Generic (BS)	127
History Childhood Education (BA)	156	Occupational Therapy (BS/MS)	137
History Education/Middle School Extension (BA)	157	OCS.....	29
History (Minor).....	98	Office Of Career Services	29
Honors in Chemistry	84	Office of Student Activities	31
Honors in Geology	87	Office of Students with Disabilities	29
Honors in History.....	98, 158	Office of the President	270
Honors in Physics	88	Officers of CUNY	270, 270
Honor Societies	26	OSA.....	31
Honors Program	26	Pandora's Box	32
Human Resource Management	113	Pharmaceutical Science (BS)	84
Independent Study Courses	46	Philosophy (BA).....	99
Information Systems Management (BS)	101	Philosophy Childhood Education (BA).....	163
Intercollegiate Athletics.....	36	Philosophy (Minor).....	99
Interdisciplinary Studies (BA).....	98	Physical Education (BS)	136
Interdisciplinary Studies Childhood Education (BA).	158	Physician Assistant (BS)	128
International Relations (Minor)	120	Physics (BS)	87
International Student Admission.....	9	Political Science (BA)	120
Intramurals	36	Political Science Childhood Education (BA)	163
Italian Studies (Minor)	93	Political Science/Cross-Cultural Studies For Psychology (Minor).....	121
Journalism (BA)	91	Political Science (Minor).....	121
Journalism (Minor).....	92	Pre-Dental Physics.....	88
Labor Studies within Political Science (Minor)	120	Pre-Engineering (Special Program).....	88
Latin American Studies (Minor).....	94	Pre-Law Studies within Political Science (Minor)	122
L.E.A.D.S.	29	Pre-Medical.....	88
Learning Center	43	Presidential Honors	54
Liberal Arts Requirement	56	Program	32
Library	40	Psychology (BA)	122
Library Services	40	Psychology Childhood Education (BA)	164
Linking.....	29	Psychology (Minor)	122
Logistics and Supply Chain Management.....	113	Public Administration (Minor)	122
Male Initiative	32	Puerto Rican Studies (Minor)	94
Male Initiative Program and Men's Center	32	Radio Station	32
Marketing (BS).....	115	Readmission	11
Mathematics (BA).....	101		
Mathematics B.A./B.S.	101		

Refund Policy	15	Student Development.....	28
Registration	45	Student Game Room	32
Resources	29, 38	Student Government.....	14, 31
SBDC.....	44	Student Government Association	31
Scholarship Center	26	Student Support Services	30
Second Degree.....	11	Studio Art (BA).....	107
Senior Administration.....	270	Studio Art (Minor).....	108
Service-Learning Program	35	Study Abroad	42
Services	29	Survey Research Certificate	146
SGA.....	31	Survey Research (Certificate Program)	146
Size of Program.....	45	Teacher Academy	26
Small Business Development Center	44	Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6 (BA)	166
Social Work (BS)	144	Testing & Academic.....	29
Sociology	146, 164	Theatre Arts (Minor)	109
Sociology (BA)	146	The Percy E. Sutton SEEK Program	10
Sociology Childhood Education (BA)	164	Transfer Admission	8
Sociology Major.....	146, 164	Tuition Waivers	16
Sociology (Minor)	146	Tutorial Services.....	41
Spanish (BA)	95	Urban Anthropology (Minor).....	143
Spanish Childhood Education (BA)	164	Veterans Affairs.....	28
Spanish/ Education 7-12 (BA)	165	Waiver of Degree Requirements.....	53
Spanish For Professional Purposes (Certificate Program).....	95	WI.....	55
Spanish (Minor)	95	Women’s Center	32
Specialized	29	Women’s Studies (Minor).....	96
Speech Communication and Theatre Arts (BA).....	107	World Literature (Minor)	96
Speech Communication/Theatre Arts Childhood Education (BA).....	165	Writing Center.....	41
Spiral Writing Curriculum.....	55	Writing Intensive Course Requirements	55
Sports.....	36	Writing Program (Special Program)	92
SSS	30	YCRadio	32
STAR Program	29	YES	30
Status.....	46	York College Association	33
Student Activities	31	York Enrichment Services	30