

COURSE DESCRIPTIONS AND ACADEMIC DEPARTMENT INFORMATION

Business and Technology Department

Room B327 (718) 482-5600
Department Faculty

Michael Napolitano, Chairperson; Ahmed Abdelhalim, Avis Anderson, John Appiah, Jennifer Arroyo, Rosalia Barnett, Rajendra Bhika, David Blumberg, Lee Boyar, Hector Fernandez, Eve Fischthal, Kathleen Forestieri, Andrea Francis, James Giordano, Andrea Gombor, Edward Goodman, Marie Hanlon, Deborah Harrell, Milton Hollar-Gregory, Linda Iannuzzo, Sada-Hye Jaman, Janice Karlen, Magalie Lopez, Namy Lytle, Nicole Lytle, Nicole Maguire, Paula Murphy, Stacy Perry, Michael Philogene, Yves Richards, Deborah Robinson, Susan Sanchirico, Leslie Scamacca, Javier Serna, Barry Silverman, Ted Theodorou, Santo Trapani, Angela Wu

First Year Seminar

BTF101 First Year Seminar for Business

2 credits; 2 hours

The First Year Seminar is required of all new students in programs within the Business and Technology Department. It aims to help students transition to campus culture, develop an understanding of the learning process, and acquire skills and dispositions essential to an informed study of the discipline. Taught by Business faculty and supported by a cohort of peers, advisors and co-curricular professionals, this course addresses issues of contemporary college life and stresses the discourse and practice of Business.

Accounting

BTA111 Principles of Accounting I

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces students to the accounting cycle. The course reviews the fundamental concepts and techniques of recording transactions in journals, summarizing the transactions, using adjusting and closing procedures and preparing financial statements and reports. It also introduces the student to valuation accounting relating to inventory and fixed assets,

internal control concepts with an emphasis on cash control, procedures for notes payable and receivable and payroll accounting.

Pre- or Corequisite: CSE095, MAT095 or MAT099

BTA112 Principles of Accounting II

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces the student to the partnership and corporate forms of business organization with topics relating to their formation, operation, and dissolution. In the area of corporation accounting, further topics explored are stock transactions, long-term liabilities, and retained earnings. Cash flows and financial statement analyses are also covered as are an introduction to manufacturing concern accounting, related statements and cost revenue relationships.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, BTA110 or BTA111

BTA201 Intermediate Accounting I

3 credits; 4 hours (2 lecture, 2 lab)

This course is designed to give an overview of the foundations of accounting theory, the problems of current practice, and its relationship to accounting theory as expressed in the Accounting Principles Board's Opinions and the Financial Accounting Standards Board's Statements. The course includes a review of the accounting cycle and a detailed exploration of the reporting process, namely, the Statement of Financial Position, the Statement of Income, the Statement of Retained Earnings and the Statement of Cash Flow.

Prerequisite: BTA112, MAT096

BTA202 Intermediate Accounting II

3 credits; 4 hours (2 lecture, 2 lab)

This course is a continuation of Intermediate Accounting I. It explores the problems of current practice and its relationships to Financial Accounting Theory as expressed in AICPA Opinions and FASB Statements. Topics examined include Inventories, Long-Term Investments in Stocks, Tangible and Intangible Fixed Assets, Liabilities and Income Taxes, Leases and Income Tax Allocation. Present Value Concepts and their applications are also covered.

Prerequisite: BTA201

BTO260 Business Communications*3 credits; 3 hours*

This course provides students with the ability to exercise various communication tasks in business. Special consideration will be given to the mechanics of written English. Written activities will focus on memos, business letters, reports, and special communications (news releases and minutes). Oral communication will be refined and telephone skills will be emphasized.

*Prerequisite: ENA/ENC/ENG101, HUC101**Pre- or Corequisite: BTO116***Aviation Management****BTV160 Introduction to Aviation Business***3 credits; 3 hours*

This course provides a general survey of the field of aviation. The course includes a historical overview of the development of aviation and an analysis of aviation's impact on economic and sociological affairs, both nationally and internationally. Students survey various aspects of the aviation business community including air carriers, manufacturers, private aircraft operators, government agencies and trade associations.

*Prerequisite: SSE103 or SSE104***BTV161 Introduction to Aviation Management***3 credits; 3 hours*

This course provides a comprehensive analysis of the planning process and the managerial and operations functions pertaining to management of an airport. The course will cover the following topics: airports in general, airport system planning, site selection, layout and land use, airport capacity and delay, financial planning and management and airport operations. This course explores the role of the airport manager in the day-to-day and long-term management and operations of the airport.

*Prerequisite: SSE103 or SSE104***BTV162 Introduction to Aviation Operations***3 credits; 3 hours*

This course explores the conduct of professional flight operations, including the flight operations of air carriers, corporate aviation departments, fixed-based operators (FBOs) and the military. Emphasis is placed on aircraft types, air routes, personnel, information systems, federal regulations and safety. Students are also introduced to methods of analyzing air carrier performance and forecasting future performance.

*Prerequisite: SSE103 or SSE104***Business****BTM101 Introduction to Business***3 credits; 3 hours*

This is an introductory course designed to acquaint students with the role of business in our economy and the various business functions and career paths such as management, human resources, international business, marketing and finance. Particular focus is placed on students employing a framework of business ethics for evaluating and analyzing different situations and for making ethical decisions, as well as on building their communication and quantitative skills, including the use of spreadsheets.

*Prerequisite for BTM101: CSE095, ENA/ENG099, ESA099, ENA/ENC101***BTM102 Principles of Finance***3 credits; 3 hours*

This course is a study of the monetary and credit systems of our economy and related policies and problems. In addition, the course addresses itself to the following: 1) commercial and noncommercial banking institutions and operations; 2) money and banking in relation to prices, economic growth, and international events.

*Prerequisite: MAT095 or MAT099, BTM101 or BTB101***BTM103 Principles of Management***3 credits; 3 hours*

This course is an analysis of the role of the manager and functions of management in an enterprise. Consideration is given to the interlocking nature of these functions and the principles, which are the basis for the practice of management. Attention is given to the impact of the external environment on the development of the managerial role and on managerial practice.

*Prerequisite: BTM101 or BTB101***BTM104 Principles of Marketing***3 credits; 3 hours*

This course explores the vital role of marketing in our economy. The factors of consumer behavior and motivation are covered to provide an understanding of market planning. The system of distribution of goods from producer to consumer is discussed by relating theory to actual case histories.

*Prerequisite: BTM101 or BTB101***BTM110 Business Law I***3 credits; 3 hours*

This course begins by introducing students to some basic aspects of the American legal system, including the courts, tort law and criminal law. It proceeds to an in-depth exploration of the law of contracts from their formation to their enforceability in court. Other topics include employment law, bankruptcy law and legal problems posed by the computerization of society.

Prerequisite: CSE095, ENA/ENG099, ESA099, ENA/ENC101

BTM116 Introduction to E-Business*3 credits; 3 hours*

This course will provide a basic understanding of the tools, skills, business concepts, strategic opportunities and social issues that surround the emergence of electronic commerce on the Internet. Current practices and opportunities in electronic payments, electronic retailing, electronic distribution and electronic collaboration are discussed. Some of the problems surrounding electronic commerce such as security, intellectual property rights, acceptable use policies and legal liabilities are included.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

BTM150 Organizing and Operating a Small Business*3 credits; 3 hours*

This course is a basic study of the importance of small business, its status, problems, and requirements for success. The course covers, among other things, the decision to go into business for oneself, the preparation needed, the methods of launching the business, and management functions involved in operating the business.

Prerequisite: MAT095 or MAT099, BTM101 or BTB101

Prerequisite for Music Recording Technology majors: CSE099, ENA/ENG099, ESA099, ENA/ENC101

BTM251 Launching New Business Ventures*3 credits; 3 hours*

This course explores the process of creating a new business venture from recognition of an opportunity to the launch of the business. It focuses on the pre-startup phase of venture creation. It explores pre-launch activities, diversity of entrepreneurs and the various activities that entrepreneurs typically undertake.

Prerequisite: BTA111, BTM101

BTM252 Entrepreneurial Finance*3 credits; 3 hours*

This course focuses on financial aspects of new businesses and the financing of their continuing growth. Debt and equity financing, analysis of financial statements, management of cash flows and valuation are discussed as they relate to the new business venture.

Prerequisite: BTM251

BTM253 Entrepreneurial Strategy*3 credits; 3 hours*

This course presents issues of strategic thinking and management within the entrepreneurial enterprise. Strategies for the emerging venture, the growing venture and for sustaining growth will be examined.

Prerequisite: BTM251

BTM254 Entrepreneur Institute*2 credits; 2 hours*

Students will learn through hands-on practical experience how to launch and scale a new business through entrepreneurial action and execution. They will attend focused workshops, participate in off-site visits to corporate campuses, network with local entrepreneurs and receive advice on how to build a small business from an external startup mentor. Students will also engage in experiential learning through individual and/or team projects solving real business problems for an existing business entity.

Prerequisite: BTM251

BTM260 Principles of International Business*3 credits; 3 hours*

This is an introductory course designed to acquaint students with the policies, techniques, and institutions that affect businesses operating in an international environment. Consideration will be given to the performance of business functions in an international context and basic terminology of international business.

Prerequisite: BTM101 or BTB101

BTM261 Export/Import Procedure and Documentation*3 credits; 3 hours*

This course examines the policies, procedures, and documentation required for importing to and exporting from the United States. The legal foundation for regulation of international trade will be discussed. Students will learn how tariffs and other regulations apply to preparing transportation and international trade documents such as bills of lading, invoices and certificates of origin. The importance of trade agreements for documentation will be examined.

Prerequisite: CSE099, BTM260

BTM262 Global Marketing*3 credits; 3 hours*

This course explores global marketing opportunities and how marketing principles and procedures apply to international business. Issues of global competition, communication and promotional effort are discussed in light of the environmental considerations that affect marketing strategy.

Prerequisite: BTM260

BTM263 International Finance*3 credits; 3 hours*

This course will focus on principles and practices of financial activities within international markets. A discussion of letters of credit, drafts and other banking documents used in foreign commerce will be included. Foreign exchange rates, financing of international trade, methods of reducing financial risk and services provided by an international banker will also be examined.

Prerequisite: BTM260

BTM264 Marketing on the Internet*3 credits; 3 hours*

This course will introduce students to the marketing applications of developing information and communication technologies, especially the Internet. It will also examine how advanced technologies affect marketing functions. Consideration will be given to the development of an organization's marketing strategies in this dynamic environment.

Prerequisite: BTM101 or BTM116

BTM265 Consumer Finance*3 credits; 3 hours*

This course examines concepts and methods of financial planning as applied to individuals and households, with attention to organizing and analyzing financial information, budgeting, acquiring financial assets, managing credit, planning for taxes, investments, risk management, retirement and estate planning. Techniques and tools for identifying and maintaining information needed for personal financial decision making will be utilized.

Prerequisite: ENA/ENC/ENG101, SSE103, SSE104

BTN195 Profile and Prospects of Business in New York City*3 credits; 3 hours*

This is an urban study course which examines the status of business in New York City using various sources of data and field assignments such as visitations to the New York Stock Exchange, major business corporations, and various government agencies. Students will learn how to develop a profile of business in New York City in terms of employee, type of industry and form of ownership. Students will also learn about various social responsibility programs being offered by the business community, and will examine the many different career opportunities available in the NYC area.

Prerequisite: MAT095 or MAT099, BTM101 or BTB101

This is a Writing Intensive course.

Healthcare Management**BTO125 Medical Terminology***3 credits; 3 hours*

This course provides an introduction to medical terminology through classroom instruction. The focus of this course is on understanding complex medical terms. Students learn word construction, prefixes, suffixes, roots, abbreviations, pronunciation and the rules of use. Terminology will relate to major body structures, functions, pathologies, related diagnoses and treatments.

Prerequisites: CSE099; ENG/ENA/ESA 099

BTO170 Electronic Health Records*3 credits; 4 hours (3 lecture, 1 lab)*

This course introduces the techniques and concepts that underlie the current global transitioning from paper-based to electronic health records management systems. The course also introduces the use of computerized electronic health records for administrative and clinical use. This course will be enhanced by the use of medical software to practice electronic health record procedures in a simulated electronic health records environment.

Prerequisites: MAT 096; ENA/ENC/ENG 101

BTO270 Health Insurance: Billing and Reimbursement*3 credits; 4 hours (2 lecture, 2 lab)*

This course introduces the health insurance system in the U.S., the various types of private policies, government-sponsored programs such as Medicare, Medicaid, Worker's compensation and related programs. The course focuses on skills related to health insurance, billing and reimbursement. Topics include insurance claims processes and forms, the proper methods of completing a CMS 1500 and UB 04 form and understanding ICD-9-CM, ICD-10-CM CPT and HCPCS coding.

Prerequisites: MAT 096; BTO125

BTO280 U.S. Healthcare Administration and Delivery*3 credits; 3 hours*

The purpose of this course is to provide students with a basic overview of the U.S. healthcare, development and history of the healthcare systems, various types of health services professionals and providers, the role of health policy and ethics, insurance and reimbursement, populations with special needs, managing care, integrated services, inter-professional teams, technology in healthcare teams, quality of care, and accessibility to care.

Pre/Co-Requisite SCN195

INTERNSHIPS

BTE160: Topics in Business and Technology

3 credits; 3 hours

This course is designed to explore current topics in any of the fields of study that are housed in the Business and Technology department: business management/administration; international business; finance; entrepreneurship; technology; accounting; paralegal studies; and travel, tourism and hospitality management. Specific topics will be announced in advance of registration. Students will complete assignments, case studies, and engage in research and problem-solving regarding real-world scenarios.

Prerequisite: MAT096

BTI121 People, Work and Organizations

3 credits; 4 hours (3 lecture, 1 lab)

The course focuses on careers in organizations and the progression of positions that a person will hold during their lifetime. Concentration is on individual and organizational factors in career development. Topics include career planning, work socialization, teamwork, career mobility and stages, mentoring, workforce diversity, and work/life balance. Students complete career and interest assessments, research careers, and develop a professional portfolio demonstrating workplace and academic skills.

Prerequisite: BTM101

Pre- or Corequisite: BTA111 or BTP101 or BTT101

BTI151 Business Exploration Internship

1 credit; 11 hours (1 lecture, 10 lab)

This internship and seminar are designed for students seeking to gain career awareness, experience, and knowledge in a particular field of interest. It provides exposure to a business/industry, allowing students to develop additional skills that will enhance academic learning as well as develop new skills that will be transferable to future employers. The seminar integrates the students' experiences with their classroom training. Minimum completion: 100 hours or employer requirements per cycle.

Prerequisite: BTI121;

Pre-corequisite: Students must have completed 18 credits and a minimum of 6 credits in the major.

BTI201 Business Internship

3 credits; 19 hours (1 lecture, 18 lab)

The internship provides students an opportunity to gain experience in business, enhance skills and integrate knowledge in the major field of study to complement their courses in a work setting. The internship provides opportunities to explore career options, test career choices, and develop skills within a chosen field. Through the seminar, a framework is provided for analyzing and evaluating students' internship experiences. Minimum completion: 168 hours or employer requirements per cycle.

Prerequisite: BTI121

Student must have completed 30 credits and a minimum of 9 credits in the major.

BTI202 Business Internship II

3 credits; 19 hours (1 lecture, 18 lab)

The elective internship and seminar is a continuation of the learning process begun in BTI 201. Students build on prior experience that enables them to explore career options, define a career path, and develop an educational plan to achieve academic and career goals. The seminar provides a framework to reflect on the experience and to explore, demonstrate, and evaluate specific knowledge, skills and values related to the field. Minimum completion: 180 hours or employer requirements per cycle.

Prerequisite: BTI201

Pre-corequisite: Students must have completed 30 credits and a minimum of 9 credits in the major.

BTI203 Internships in Emerging Technology

3 credits; 25 hours

This seminar is designed to meet the specialized needs of students interning in Silicon Alley, an area with a concentration of Internet and new media companies. Students will engage in a common reading to understand the New York tech community and its culture as well as participate in demo days, workshops, seminars, meet-ups and events. The seminar will help students succeed by offering ongoing support and mentoring to maximize students' learning experiences.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101,

ESL098/99, MAT096. *Departmental Permission Required*

Paralegal Studies

BTP101 Introduction to Paralegal Studies

3 credits; 3 hours

This course introduces the student to the legal system of the United States and to the role of the paralegal in it. Topics include the classifications and sources of law, the court system, the activities of the paralegal and the legal and ethical restrictions on the paralegal's work. The ways in which computers have transformed legal practice are explored throughout.

Prerequisite: CSE099;

Pre- or Corequisite: ENA/ENC/ENG101

BTP201 Administrative Law

3 credits; 3 hours

This course concerns the paralegal's work with government agencies. It is especially concerned with those agencies, like U.S. Citizenship and Immigration Services, which have a direct effect on the lives of many individuals. Topics include the function and status of agencies in contemporary American society, the sorts of benefits to which various groups are entitled and procedures for obtaining these benefits and challenging their denial or termination. Students learn how to prepare relevant documents. Instruction in the related uses of computers is an integral part of this course.

Prerequisite: BTP101;

Pre- or Corequisite: One of the following courses: HUC101 or HUC104 or HUC108

BTP202 Wills, Trusts and Estates*3 credits; 3 hours*

This course deals mainly with the transfer of property after death and with the role and procedures of the Surrogate's Court. Students learn about the legal implications of dying with and without a will and the functions of trusts. They also learn how to assist in the preparation of the relevant legal documents, such as wills, trust instruments and estate tax returns. Instruction in the related uses of computers is an integral part of this course.

*Prerequisite: MAT095 or MAT099, BTP101***BTP203 Family Law***3 credits; 3 hours*

The central concern of this course is the law governing marriage and its termination. Topics include creation of a valid marriage, prenuptial agreements, divorce, custody of children and adoption, among others. The role of the Family Court and its procedures are discussed, and students learn how to prepare relevant legal documents. Special problems posed by family-type arrangements outside marriage are also addressed. Instruction in the related uses of computers is an integral part of this course.

*Prerequisite: BTP101***BTP204 Legal Research and Writing***3 credits; 3 hours*

In this course, students learn how to find the answers to a broad range of law-related questions. They develop skills using both the resources of the law library and computerized research tools such as Lexis/Nexis. Much attention is also given to essential writing skills and the preparation of legal memoranda and documents.

*Prerequisite: BTP101***BTP205 Civil Litigation***3 credits; 3 hours*

This course is an intensive and thorough analysis of what happens in a civil lawsuit, from the decision to sue to the appeal and enforcement of judgment. Students learn how to prepare relevant legal documents and to assist attorneys in a variety of tasks at each stage of the proceedings. Instruction in the related uses of computers is an integral part of this course.

*Prerequisite: BTP101***BTP206 Paralegal Internship***3 credits; 19 hours*

The Paralegal Internship provides students an opportunity to gain experience in a paralegal setting, enhance skills, and integrate knowledge in Paralegal Studies to complement their courses in a work setting. The internship provides opportunities to explore career options, test career choices, and develop skills as a paralegal. Through the seminar, a framework is provided for analyzing and evaluating students' internship experiences. Minimum completion: 180 hours or employer requirements per cycle.

*Prerequisites: BTP205; BTP211 Corequisites: BTP 204***BTP207 Real Estate Law for Paralegals***3 credits; 3 hours*

This course is concerned with real estate sales, leases and mortgages. By acquiring an essential knowledge of real estate law and practical skills such as document preparation, students learn how to participate reliably in a variety of real estate transactions. Instruction in the related uses of computers is an integral part of this course.

*Prerequisite: MAT095 or MAT099, BTP101***BTP208 The Law of Business Enterprises for Paralegals***3 credits; 3 hours*

This course examines the different types of business entities from a legal perspective. Topics include sole proprietorships, corporations, partnerships and newer types of business entities such as limited liability companies. The advantages and disadvantages of each entity type are discussed. Students learn how to prepare relevant legal documents and to make appropriate use of computers in this area of the law.

*Prerequisite: BTP101***BTP209 Criminal Law and Procedure***3 credits; 3 hours*

This course is concerned with the practical aspects of criminal law and procedure as they pertain to the work of the paralegal. The first part of the course covers the nature of criminal liability, the elements of various crimes and defenses to criminal accusations. The second part covers criminal procedure, from search and seizure through trial, sentencing and appeal. Constitutional issues relating to search and seizure, self-incrimination, and other matters are explored in depth. Students learn how to prepare relevant documents and make appropriate use of computers in this area of the law.

*Prerequisite: BTP101***BTP211 Computer Applications for Paralegals***3 credits; 4 hours (3 lecture, 1 lab)*

This course focuses on those computer applications which are of central importance for paralegals. Students receive hands-on training using word-processing, spreadsheet, database, presentation and legal-specific software. Students also learn how to conduct computer-assisted legal research.

*Prerequisite: MAT095 or MAT099, BTP101***BTP212 Immigration Law***3 credits; 3 hours*

This course concerns the laws and procedures pertaining to immigration, naturalization and related matters. Topics include legal entry into and residence in the United States, qualifying for citizenship and deportation. Students learn how to obtain relevant information and complete forms using both the resources of the law library and the Internet.

*Prerequisite: BTP101***BTP213 Bankruptcy Law***3 credits; 3 hours*

This course covers the substantive and procedural aspects of bankruptcy law as set forth by the federal Bankruptcy Code.

Topics include the main types of bankruptcy proceedings, eligibility for each type and the consequences of filing for bankruptcy. Students learn how to prepare relevant legal documents and to make appropriate use of computers in this area of the law.

Prerequisite: BTP101

Travel, Tourism and Hospitality Management

BTT101 Introduction to Travel, Tourism and Hospitality

3 credits; 3 hours

This course is an overview of the travel, tourism and hospitality industry. It explores the structures, products and services of industry suppliers, such as transportation companies, attractions, hotels and other lodging providers, and of marketing organizations, such as travel agencies, tour packagers and destination-promotion organizations. The course also traces the evolution of the industry and explores its role in contemporary life.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

BTT110 Airline Reservations and Ticketing

3 credits; 3 hours

This course introduces students to airline reservations and ticketing terminology, regulations and procedures. Students learn how to plan air itineraries using printed reference materials, to reserve seats, to calculate fares and to issue tickets and other airline forms. Emphasis is placed on the appropriate interpretation of routing and fare rules.

Prerequisite: BTT101

BTT111 Airline Reservations Computer Systems

3 credits; 3 hours

This course is designed to introduce students to the operation of airline reservation computer systems. Students will learn formats to access information stored in the computer and to enter new data. Students will use these formats to make airline, rental car and hotel reservations, create passenger records, quote airline fares and issue airline tickets.

Prerequisite: BTT110

BTT120 Basic Tour Planning

3 credits; 3 hours

This course is an introduction to research techniques used in tour planning by travel professionals. Students learn how to use information sources such as industry reference guides, travel guidebooks and brochures to select travel products suited to client needs. Students also learn the terminology and reservations procedures used by hotels, railroads, car rental companies, cruise lines and tour packagers. The major attractions of destinations in North America and the Caribbean are discussed.

Prerequisite: BTT101

BTT211 Advanced Tour Planning

3 credits; 3 hours

This course continues the study of tour planning, with emphasis on the principles of tour design and management. Topics include selecting escorted tours, planning customized independent tours, developing and administering group tour programs, and applying basic sales, marketing and finance principles to the retail travel environment. Discussions will include the major attractions of destinations in South America, Europe, Africa, Asia and the Pacific.

Prerequisite: MAT096, BTT120, ENA/ENC/ENG101, SSE125

BTT202 World Travel and Tourism Destinations

3 credits; 3 hours

This course is designed to provide students with knowledge of the world's most visited destinations while offering them a comprehensive introduction to the countries of the world. Students will learn to use electronic and print tourism destination research sources. Emphasis is placed on both cultural and natural tourist attractions.

Prerequisite: BTT101

BTT203 Travel, Tourism and Hospitality Technology Systems

3 credits; 3 hours

This course is designed to introduce students to various hospitality information systems. Students will gain basic foundation skills of an airline reservation computer system, a hotel front office system and a restaurant point of sale system. Students will also use web-based and Internet technology to understand the current role of technology in the hospitality industry.

Prerequisite: BTT101

BTT205 Travel, Tourism and Hospitality Law

3 credits; 3 hours

This course examines business law concepts and principles as they pertain to the travel, tourism and hospitality industry. General topics include the nature of American law and the legal system, negligence law and contract law. Industry-specific topics include the rights and responsibilities of airlines and other transportation providers, lodging facilities, restaurants, patrons and travel agents. Employment law and government regulation of the industry are also discussed.

Prerequisite: BTT101

BTT212 Customer Service and Sales

3 credits; 3 hours

This course will provide students with the fundamental concepts of hospitality customer service and sales. Emphasis is placed on selling skills and customer service techniques that enhance sales and help to create a loyal customer following. Students will focus on how to manage a hospitality organization in such a way that the guest's expectations of quality and value are met and exceeded.

Prerequisite: BTM101, BTT101

BTT221 Travel Agency Operations and Management*3 credits; 3 hours*

This course examines the roles of travel consultants and managers in the retail travel environment. Travel services, such as air and land transportation, cruises, accommodations and tours are described, as well as policies and procedures associated with their sale. Managerial functions, such as marketing, organizational design, human resources, accounting and finance, legal and regulatory compliance and risk management of planned and existing agencies are discussed.

*Prerequisite: BTM101, BTT102***BTT222 Special Interest Tourism***3 credits; 3 hours*

This course will focus on the development of themed travel and tourism programs appealing to those with special interests. Types of specialty travel to be discussed include small-ship cruise travel, as well as adventure, space, gastronomic, sport and volunteer tourism. Environmental sustainability in tourism development will constitute an underlying theme throughout the course. Students will be required to design a special interest tour and create promotional materials for it.

*Prerequisite: BTT202***BTT223 Meeting and Event Planning***3 credits; 3 hours*

This course will introduce students to the basic elements of meeting, convention and event planning. Students will learn how to generate business through sales and providing service to the group and convention industry. Students will focus on the overall management of events.

*Prerequisite: BTT101***BTT224 Destination Tourism Management***3 credits; 3 hours*

This course is designed to explore the role of destination management organizations (DMOs) and how they can function effectively. Emphasis is placed on stimulating economic development in cities, states and nations. Students are introduced to the elements that create a positive image for a tourism destination.

*Prerequisite: BTA111, BTM101, BTT101***BTT231 Hotel and Lodging Operations and Management***3 credits; 3 hours*

This course is an examination of the operations and management of hotels and other lodging properties such as time shares and vacation resorts. The roles of departments such as the front office, housekeeping, marketing and sales, human resources, food and beverage and loss prevention and security are discussed, as well as the role of the general manager. The concepts of yield management, management contracts and franchise agreements are highlighted.

*Prerequisite: BTM101, BTT101***BTT232 Front Office Management***3 credits; 3 hours*

This course familiarizes students with the front office department of the hotel. Students will focus on all aspects of the hotel front office including: the guest cycle, reservations, front office accounting, front office audit, account settlement and revenue management. Students will work on a simulation of a hotel front office experience.

*Prerequisite: BTA111, BTT231***BTN211 Travel, Tourism and Hospitality Marketing***3 credits; 3 hours*

This course examines the principles of marketing as applied in the travel, tourism and hospitality industry. Stages in the marketing cycle, including research, strategies, planning and the components of the marketing mix will be discussed. The role of marketing functions performed by urban tourism industry organizations as well as the tourism image/experience of New York City will be explored through field trips and/or guest speakers and community-based projects.

*Prerequisite: BTM101, BTT101**This prerequisite is waived for Foodservice Management students**This is a Writing Intensive course.*

Technology Courses

BTC100 Computer Applications and Technologies*3 credits; 5 hours (3 lecture, 2 lab)*

This course will help students develop an understanding of computers through the exploration of software packages. The applications include word processing, spreadsheet, presentation graphics and database management. Students will learn computer terminologies and also explore developments in related technologies. Topics covered will include web design and the use of current Internet resources.

*Pre- or Corequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101. Corequisite: MAT096***BTC160 Topics in CIS (To Be Announced)***3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed to explore a current topic in computer information systems. The specific topic, to be announced during advanced registration, will be selected from such areas as computer programming and languages, telecommunications, computer architecture and artificial intelligence. Students will learn about the selected topic through a combination of lectures, readings, research, class discussions and laboratory projects.

Prerequisite: MAC101, MAC109 or MAC265; MAT200 or MAT241

BTC200 Introduction to Information Systems

3 credits; 4 hours (3 lecture, 1 lab)

This course introduces students to the use of computers and other information systems and technologies to solve problems in organizations. Topics include management information systems (MIS), hardware and software concepts, the organization of information using systems analysis and design, electronic commerce and contemporary applications of technology in organizational environments. Students will explore ethical perspectives and globalization issues and will cultivate an awareness of emerging processes.

Prerequisite: BTM101

Counseling Department

Room B100 (718) 482-5250

The Counseling Department offers programs designed to assist students with personal, academic, and career concerns. In addition, the department offers two courses described below.

Department Faculty

Lynne Alston-Jackson, Jean Buckley-Lockhart, Louise A. Butironi, Ana M. Mora, Kyoko M. Toyama

FSM001 New Student Seminar

0 credit; 1 hour

New Student Seminar is designed to provide an orientation for students to LaGuardia and to provide students with the knowledge and skills they need to be successful in college. Students will learn college policies and academic requirements, effective study skills, and test-taking strategies. In addition, students will engage in self and career exploration as well as academic planning and advisement.

Education and Language Acquisition Department

Room B234 (718) 482-5640

The Education and Language Acquisition (ELA) Department offers courses in education, modern languages and literatures, general language study, and English as a second language. The department offers two urban study courses and houses three education programs: bilingual education, childhood education and secondary education.

Department Faculty

Arthur Lau, Chairperson; Caterina Almandral, Paul Arcario, Rashida Aziz, Habiba Boumlik, Ruhma Choudhury, John Collins, Angela Cornelius, Michelle De Goeas-Malone, Monika Ekiert, Jose Fabara, Wenjuan Fan, Xiwu Feng, Linda Forrester, Jie Gao, Leigh Garrison-Fletcher, Laurie Gluck, Lilik Gondopriono, Ana Maria Hernandez, Rosa Herrera-Rodriguez, Givanni Ildefonso-Sanchez, Maria Jerskey, Rebekah Johnson, Florence Kabba, Karen Kearns, Hyun Joo Kim, William Kurzyna, Bede McCormack, Ernesto Menendez-Conde, Tomonori Nagano, Ernest B. Nieratka, Adhiambo Okomba, Agnieszka Rakowicz, Max Rodriguez, Maria Savva, Jane Selden, Walter Sistrunk, Kenneth Yin

Communication Skills

CSE095 Essentials of Reading I

0 credit; 5 hours (4 lecture, 1 lab)

(Equivalent to First Year Institute USR095)

This course develops students' critical reading and studying skills. Literal and inferential levels of comprehension of college-level reading materials will be developed through the use of reading strategies, vocabulary exercises and class discussions. Students will be exposed to a wide variety of readings from the academic disciplines, thereby acquiring fundamental background knowledge needed to read proficiently at the College level. Students will read both exposition and a full-length narrative.

Admission to this course is based on placement test scores.

CSE099 Essentials of Reading II

0 credit; 5 hours (4 lecture, 1 lab)

(Equivalent to First Year Institute USR099)

This course reinforces reading and study strategies applied to advanced college-level texts. Emphasis is on exposition and argument as well as narrative. Elements of critical reading are introduced. Standardized reading test strategies are focal points in preparation for general reading proficiency exams. The process of reading is explained and experienced using student's own self-monitoring strategies. Critical reading of one or more full-length texts is required.

Admission to this course is based on placement test scores.

CSE103 Critical Reading and Academic Literacy*3 credits; 3 hours*

This course is designed for students who want to develop sophisticated analytical skills for critical reading. It aims to develop proficiency in higher levels of reading and thinking — analysis, inference and evaluation. Through intensive reading and analysis from the various academic disciplines, students will be able to process and organize complex concepts. The course will have an ePortfolio component comprised of written assignments developed throughout the semester.

*Prerequisite: CSE099**Pre- or Corequisite: ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099***CSE105 Academic Vocabulary***3 credits; 3 hours*

This course introduces students to methods of expanding their vocabulary, from contextual readings to conceptual frameworks. The development of modern English is studied to explain the state of current vocabulary. Subject area dictionaries, Greek and Latin word elements and meanings derived from context are explored. Special consideration is given to introducing the students to the vocabulary essential to their major area of study.

*Pre- or Corequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***CSE110 Literacy and Propaganda***3 credits; 3 hours*

This course introduces students to methods of understanding a highly developed and pervasive discourse: propaganda. Emphasis is placed on reading materials that use the persuasive and argumentative language of politics, advertising, cultural discussions and the media. Political speeches, essays, editorials, and articles are used to enlarge the student's experience with the materials and tools of propaganda. The student will acquire the intellectual framework and sophisticated level of literacy needed to recognize and respond to the aims of propaganda.

*Prerequisite: CSE095, ESL/ESR099**Pre- or Corequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***CSE111 Literacy and Propaganda Accelerated***3 credit; 7 hours (6 lecture, 1 lab)*

This course introduces students to methods of understanding a highly developed and pervasive discourse: propaganda. Emphasis is placed on reading materials that use the persuasive and argumentative language of politics, advertising, cultural discussions and the media. Political speeches, essays, editorials, and articles are used to enlarge the student's experience with the materials and tools of propaganda. The student will acquire the intellectual framework and sophisticated level of literacy needed to recognize and respond to the aims of propaganda.

*Prerequisites: This course is for students whose reading ACCUPLACER score is between 45 and 54.***CSE120 Reading the Biography***3 credits; 3 hours*

This course will introduce students to the critical reading and evaluation of biographies, autobiographies, memoirs, diaries and journals. The aims of the course will be to: evaluate claims to truth and truthful recollections; examine historical claims through first person accounts; develop awareness of the methods and techniques of biographical and autobiographical writing; understand the uses of biographical writing and its place in society; explore biographies and autobiographies as vehicles for the creation of the self. The student will become proficient and develop a deeper appreciation of biographical narratives and their uses in self-understanding. The materials to be read in class will vary by semester and the course may be thematically organized.

*Pre- or Corequisite: ESL/ESR098***CSE150 The Evolution of the Reading Experience***3 credits; 3 hours*

This course is designed to familiarize the student with the cultural and technological factors which have defined and influenced the activity of reading. The emphasis of the course will be on the evolution of reading and the gradual changes affecting the reading experience. Students will be expected to understand significant developments that relate to reading: the invention of writing, the creation of books, the invention of the printing press and more recent changes in print communication. This course will explore reading from the perspectives of other cultures and will trace the varieties of reading experiences that have been key features in the transformation of Western and non-Western cultures.

*Prerequisite: CSE099, ENA/ENG/ESA099/ENC101***CSZ099 Academic Reading Strategies***0 credits; 4 hours*

This course is designed to prepare students for cross disciplinary college level critical reading and test-taking. Students will read extensively to acquire background knowledge, discipline-specific lexica, and exam-taking strategies. Course readings will cover the Social Sciences, Humanities, and Natural Sciences. Students will learn and analyze information patterns in different fields, review test-taking strategies, and analyze answers, with special emphases on the critical reading of comparative essays.

Prerequisite: CSE099

Education

EDF101 First Year Seminar in Education

3 credits; 4 hours (3 classroom, 1 lab)

The Education First Year Seminar is required of all new students majoring in Education. Its goals are to introduce students to the liberal arts, campus culture, and the education field, and to develop a better understanding of the learning process and acquire essential academic skills. Taught by ELA faculty and supported by Peers Advisors, and co-curricular professionals, this course addresses issues related to contemporary college life and the field of education (birth through 12th Grade).

ELE110 Arts in Education

3 credits; 3 hours

Students are introduced to media, lesson planning, and ways of integrating the arts into planning academic and multicultural curricula for K-12 classrooms. The importance and role of the arts in school curricula is stressed through demonstrations, lectures, visuals and discussions. Creative and critical thinking skills are enhanced through hands-on projects, technology based activities, and reflective writing. This course requires 15 hours of classroom observation in a NYC public school for education students or 4 classroom video-based observation reports for non-education major students.

Prerequisite: ENA/ENC/ENG101, MAT096

ELE203 Language and Literacy in Childhood Education

3 credits; 4 hours (3 classroom, 1 lab)

This Writing Intensive course provides a comprehensive overview of the development, learning and teaching of literacy from grades one through six. Topics include the relationship between written and spoken language, language and literacy development in children from culturally, academically, and linguistically diverse backgrounds, literacy instruction and assessment. Students will develop a teacher education ePortfolio. 15 hours of classroom observation in a NYC public school is required.

Prerequisite: ELL101, ELN120 or ELN123, ENG102, MAT096/099/117/119, SSY105

ELE204 Language and Literacy in Secondary Education

3 credits; 4 hours (3 classroom, 1 lab)

This Writing Intensive course is designed to promote students' understanding of the importance of issues concerning language and literacy in secondary education and their relevance to classroom practices. Students will learn about first and second language acquisition, dialect variation, classroom discourses, strategies for teaching content-area to a diverse student body and will develop a teacher education ePortfolio. 25 hours of classroom observation in a NYC public school are required.

Prerequisite: ELL101, ELN122, ENG102, MAT096, SSY105

ELN205 Language and Literacy in Early Childhood Education

3 credits; 3 hours

This writing intensive course introduces students to language and literacy development of children from birth to 8 years of age. Coursework includes Language and pre-literacy development; the foundational role of early literacy learning; the importance of print-rich environments and intentional instructional practices; family literacy practices; and early learning standards; and the development of a teacher education ePortfolio. Students must complete 30 hours of fieldwork.

Prerequisite: ELL101, ELL121, SSY105

ELN120 Foundations of American Education: Grades 1-6

3 credits; 4 hours (3 classroom, 1 lab)

This Writing Course is a comprehensive overview of the foundations of education in the U.S. for elementary teachers. The course emphasizes philosophical, sociological, political, legal and cultural themes. It enables students to inquire, debate, and write about contemporary and historical issues, prepares reflective educators to make informed decisions, and to develop a teacher education e-Portfolio. 15 hours of classroom observation in a NYC public school are required.

Prerequisite: SSH101 or SSH102 or SSH106, MAT096

Pre- or Corequisite: ENG102

This is a Writing Intensive course

ELN121 Foundations of Early Childhood Education

3 credits; 3 hours

This Writing Intensive course introduces students to the social, cultural, economic, and historical forces influencing early childhood education (ECE) in NYC and other urban settings; definitions of ECE's function and curriculum; ECE as a profession; the role of federal, state and city agencies; early learning assessment; quality and equity; issues of social inclusion and respect for diversity. Students will also develop a teacher education ePortfolio. Students must complete 30 hours of fieldwork.

Prerequisite: ENA/ENC/ENG101, MAT096

Pre- or Corequisite: ENG102

This is a Writing Intensive course

ELN122 Foundations of American Education: Grades 7-12

3 Credits; 4 hours (3 classroom, 1 lab)

This writing intensive course is a comprehensive overview of the foundations of education in the U.S. for secondary teachers. The course emphasizes philosophical, sociological, political, legal and cultural themes. It enables students to inquire, debate, and write about contemporary and historical issues, prepares reflective educators to make informed decisions, and to develop a teacher education e-Portfolio. 25 hours of classroom observation in a NYC public school are required.

Prerequisite: SSH101 or SSH102, MAT096 AND SSH101 or SSH102

Pre- or Corequisite: ENG 102

This is a Writing Intensive course

ELN123 Foundations of Bilingual Education*3 credits; 3 hours*

This writing intensive course is a comprehensive overview of bilingual childhood education. It covers cultural, psychological, socioeconomic, linguistic, cognitive and curricular factors affecting the academic achievement of emergent bilingual students. Topics include the philosophical, legal, and sociological aspects of bilingual education. In this course students also develop a teacher education ePortfolio. 15 hours of classroom observation in a NYC public school is required.

*Prerequisite: MAT096/099/117/119**Pre-or corequisite: ENG102, SSH106**This is a Writing Intensive course***ELN206 Family, School and Community in Early Education***3 credits; 3 hours*

This writing intensive course introduces students to current research, practices, and developmental experiences of young children (prenatal to age 8), in the context of family, school and community. Application of knowledge on cultural, racial, ethnic, income and linguistic diversity and the significance of family diversity, socio-cultural contexts and urban poverty for early learning are addressed. Parent communication, involvement and collaboration are explored. Students must complete 30 hours of fieldwork.

*Prerequisite: ELN121**This is a Writing Intensive course***English as a Second Language****ESA099 Basic Writing I for Non-Native Speakers of English***0 credits; 6 hours (4 lecture, 2 lab)**(Equivalent to ENG099)*

This course aims at developing college-level writing proficiency, emphasizing the writing process, summary writing, paraphrasing, and English language skills. The course also introduces students to the conventions of academic writing and rhetorical conventions, and prepares them for timed essays, such as the CUNY Assessment Test in Writing (CATW). Students learn to write reader response essays and to rectify lexical, grammatical, and rhetorical errors.

*Pre- or Corequisite: ESL/ESR099 or waiver***ESC099 Accelerated Composition for Select Readers***0 credits; 10 hours (8 lecture, 2 lab)*

This is an accelerated writing-intensive composition course that merges Basic Writing I for Non-Native Speakers of English with English for Select Readers to develop college level writing skills emphasizing writing process, fluency, grammatical accuracy, text-based writing and critical reading strategies to effectively use various academic written modes. This course is not open to repeaters of any levels of ESR/ESL or CSE.

*Prerequisite: Pass COMPASS, ESR098; ESR099**Placement/Passing Grade in ESR098 plus Exemption from Reading or Passing Score on COMPASS Reading Exam.**No repetition of any level of ESL/ESR or CSE courses.***ESE099 Intensive Basic Writing for NNS of English***0 credits; 45 hours*

This is a one-week intensive version of ESA099. This course aims at developing college-level writing proficiency. Emphasizing the writing process, rhetorical conventions, summary writing, paraphrasing and analytical language skills, the course will prepare students for timed, high-stakes essays, such as the CATW. In addition, students will learn to identify and correct grammatical errors in their own compositions and learn to employ argumentative and other rhetorical modes in a short essay.

*Prerequisite: ESL/R099 or waiver, departmental permission***ESL097 English as a Second Language II***0 credits; 9 hours (7 lecture, 2 lab)**(Equivalent to First Year Institute USE097)*

This course is designed for students who have some knowledge of English and need to develop competency in their academic reading, writing, speaking and listening skills. The emphasis will be on writing, critical reading strategies, and interpreting college-level materials. Knowledge of grammar and application of grammar are an integral part of the course.

*Prerequisite: Reading and writing placement**Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101***ESL098 English as a Second Language III***0 credit; 9 hours (7 lecture, 2 lab)**(Equivalent to First Year Institute USE098)*

This course helps intermediate level ESL students to improve their reading and writing skills and also provides practice in listening and speaking. All of the activities focus on expanding the students' knowledge of English and developing fluency in all of the skills. At the end of the course, students must demonstrate increased competency in writing as well as in reading, speaking and listening.

*Prerequisite: ESL097 or placement exam**Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101***ESL099 English as a Second Language IV***0 credit; 10 hours; (8 lecture, 2 lab)**(Equivalent to First Year Institute USE099)*

This course provides extensive practice in reading, writing, listening and speaking using college-level materials, and helps students increase their vocabulary and study skills. Its purpose is to enable students to express ideas in acceptable written and spoken English.

*Prerequisite: ESL/ESR098 or placement exam**Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101*

ESR098 ESL III for Select Readers

0 credit; 6 hours (6 lecture, 2 lab)

(Equivalent to ESL098)

This is an accelerated course which focuses on expository writing and critical reading skills for the non-native speaker of English and is open only to those students who achieve a predetermined level based on the reading placement test. Oral presentations and/or themes will follow the discussion of reading selections used to improve students' ability to think critically. These selections and the students' compositions will be used for grammar and vocabulary instruction.

Pre- or Corequisite: This course is only open to new students who place at the ESL098 level and who either place into

CSE099 or have a passing score on the Compass Reading test.

Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101

ESR099 ESL IV for Select Readers

0 credit; 8 hours; (6 lecture, 2 lab)

(Equivalent to ESL099)

This is an accelerated ESL099 course which provides extensive practice in reading, writing, listening and speaking using college-level materials and helps students increase their vocabulary and study skills. Its purpose is to enable students to express ideas in acceptable written and spoken English. Final compositions read by both ESL and English Department faculty determine placement in English Department courses.

Prerequisite: ESR098 or placement exam

Language Study**EIS215 Language Issues in a Global World**

3 credits; 3 hours

This course will familiarize students with the pivotal ways in which language influences and underlies important and often controversial policy issues in societies around the world.

It zeroes in on the issues of languages and dialects in cross-cultural perspective; multilingualism, literacy, and education; and language choice and globalization. The course will explore and analyze questions of language diversity, language power, and language policy in a global world.

Prerequisite: ENA/ENC/ENG101

EIS216 International Schooling in Global Contexts

3 credits; 3 hours

This course examines trends in international schooling by exploring the rapid growth of English-medium schools abroad, along with the increased employment opportunities that have emerged for those interested in teaching or working abroad. The psycho-social adjustment of highly mobile populations (such as those of international teachers and students) is also surveyed with a focus on issues of adaptation, hybrid identities and developing a sense of belonging.

Prerequisites: ENA/ENC/ENG101

ELL101 Introduction to Language

3 credits; 3 hours

An introduction to the nature, structure, and history of language, this course surveys the scientific study of language and looks at what it means to "know" a language. Areas covered include phonology, word structure, sentence structure, how languages are acquired, how languages change through time, and how language is used in society.

Prerequisite: CSE099, ENA/ENG/ESA099

ELL/ENG110 English Grammar Syntax

3 credits; 3 hours

This is a syntax and grammar course. The course focuses on those advanced grammatical structures necessary in academic discourse. The course begins with a review of the English verb system and covers preposition use, English word order, adverb, adjective and noun clauses, reported speech, article usage, complex conditionals and passive voice. Additional topics may be selected in response to the particular needs and interests of the students in the class.

Pre- or Corequisite: CSE095, ESL/ESR099

ELL114/HUC114 Normal Language Development

3 credits; 3 hours

This course provides a comprehensive overview of normal language acquisition and development. It explores historical and current language theories, research findings and basic stages of typically developing language users. Related topics include an exploration of second language acquisition and atypical language development in people with specific language impairment.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

ELL210 English Morphology

3 credits; 3 hours

This course applies linguistic principles to the study of the English vocabulary and examines morphemes and how they combine to form English words. Topics include an overview of the history of English with particular emphasis on word development, word histories, sound change and meaning change, sources of new words, usage and variation and slang.

Prerequisite: ELL101, ENC/G101, MAT096

ELL220 Introduction to Sociolinguistics

3 credits; 3 hours

This course surveys topics in sociolinguistics including language codes, regional and social dialects, and language variation as well as the cultural basis of language codes. Additional areas of study include the origins of pidgin and creole languages and the formation of speech communities/communities of practice. An overview of research methods common to sociolinguistic research will also be introduced.

Prerequisite: ELL101, ENC/G101, MAT096

Modern Languages and Literature

American Sign Language

ELM101 American Sign Language I

3 credits, 4 hours (3 lecture, 1 lab)

This course introduces the fundamentals of American Sign Language (ASL) as used by the Deaf community, including vocabulary, syntax, grammar, semantics, language in use and Deaf cultural notes. International Sign Languages will also be explored. The course focuses on the development of language and communication competencies.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, ESL/R099, MAT096

ELM102 American Sign Language II

3 credits, 4 hours (3 lecture, 1 lab)

This course builds on the foundations of American Sign Language 1 (ELM 101). The course focuses on American Sign Language as used by the Deaf community and includes instruction in vocabulary, syntax, grammar, semantics, language in use and Deaf cultural behavior. The course focuses on the development of language and communication competencies.

Prerequisite: ELM101 or Placement Exam

ELM103 American Sign Language III

3 credits, 4 hours (3 lecture, 1 lab)

This course builds on students' ASL competences and their use of ASL in a variety of discourse and narrative settings. Skills to be developed are: spatial organization, semantic awareness, complex use of ASL grammar and syntax, the use of classifiers, cultural perspectives of content and Deaf people's views of both Deaf and hearing worlds.

Prerequisite: ELM102 or Placement Exam

ELM104 American Sign Language IV

3 credits, 4 hours (3 lecture, 1 lab)

This course focuses on the advanced development of students' ASL competences and their use of ASL in a variety of discourse and narrative settings. Skills to be developed are: spatial organization, spatial visualization and mapping work; analysis of semantics, complex use of ASL grammar and syntax, the use of classifiers, and cultural perspectives of contents and Deaf culture and bilingual perspectives.

Prerequisite: ELM103 or Placement Exam

ELM210 Sign Language Linguistics

3 credits; 3 hours

This course compares the fundamental linguistic structures of American Sign Language, English and other signed languages. The phonology, morphology, syntax, semantics and pragmatics of each language will be examined. Students will use a descriptive framework to identify and analyze the linguistic features across both spoken and signed languages. The course will utilize theoretical and methodological approaches to the study of sign languages. Fluency in American Sign Language is not required.

Prerequisite: ELL101, ELM102

Arabic

ELA101 Elementary Arabic 1

3 credits, 4 hours (3 lecture, 1 lab)

This course is designed for beginners of Arabic and aims to develop students' listening, speaking, reading and writing skills in Arabic. An understanding of Arabic culture is nourished through the examination of cultural practices and perspectives. Students will learn Arabic pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELA102 Elementary Arabic 2

3 credits, 4 hours (3 lecture, 1 lab)

ELA102 is designed to further develop students' language ability in Arabic. The course continues to introduce students to the four language skills (i.e., speaking, writing, reading, and listening), fundamental grammar, as well as cultural facts of the Arab world.

Prerequisite: ELA101, ESL097, or Exemption Exam

ELA103 Intermediate Arabic I

3 credits, 4 hours (3 lecture, 1 lab)

This course is designed to help students who completed ELA102 to enhance their four basic skills in Arabic. The course especially focuses on improving students' Arabic grammar, usage, and their critical reading and writing strategies in Arabic through project-based assignments. This course is mostly taught in Arabic.

Prerequisite: ELA102, ESL097

ELA104 Intermediate Arabic II

3 credits, 4 hours (3 lecture, 1 lab)

This course is designed to help students who completed ELA103 enhance their four basic skills in Arabic. The course especially focuses on improving students' Arabic grammar, usage, and their critical reading and writing strategies in Arabic through project-based assignments. This course is mostly taught in Arabic.

Prerequisite: ELA103 or Exemption Exam

Pre-or Corequisite: ESL097

ELA105 Arabic for Heritage Speakers

3 credits, 4 hours (3 lecture, 1 lab)

This course is designed to help heritage speakers of Arabic to enhance their reading and writing competence of the target language in the formal and high-level register. The course especially focuses on improving students' Arabic grammar, usage, and their critical reading and writing strategies in Arabic through project-based assignments. This course is taught in Arabic.

Prerequisite: ESL097 or Exemption Exam

ELA201 Modern Arabic Literature

3 credits; 3 hours

The course examines an array of Arab literary writings from the late 19th century to the present. Literary genres include fiction, memoirs and polemical pieces, short stories, essays, poetry, plays and novels. A careful attention is devoted to the historical,

cultural, social, political and economic context in which each text was created. Class discussions focus on Arab intellectuals and the West, Arab literature, identity, nation/nationalism, colonialism, sexuality and religion. This course is taught in Arabic.

Prerequisite: Exemption Exam

ELA250 Arabic Literature in Translation

3 credits; 3 hours

This course provides students with an opportunity to study Modern Arabic literature and to become familiar with the culture of the Middle East and North Africa. In addition to major literary works illuminating changes in the Arab culture and society, screening of film adaptations of some master pieces of Arabic literary works will offer new perspectives about the lives and experiences of Arab writers. Class discussions will encompass Arab intellectuals and the modernization ideology in the 19th century; writing and diglossia, nation and nationalism; Arabic literature and colonialism; literature and war; patriarchy, sexuality, and religion.

Prerequisite: ENA/ENC/ENG101

ELA260 Arab Cinema: Cultural Insights through Film

3 credits; 3 hours

The course introduces students to the history and to the contemporary diversity of Arab cinema as an artistic and social form, and as a political instrument. It examines an array of Arab films from the early 20th century to the present. Readings and screenings investigate these major areas: the construction of identity, socio-political and cultural change, Islam, history and modernity, the quest for freedom, women and sexuality. The class is taught in English and prior knowledge of Arabic is not necessary.

Prerequisite: ENA/ENC/ENG101

Bengali

ELV101 Elementary Bengali 1

3 credits, 4 hours (3 lecture, 1 lab)

This course for beginners is designed to develop listening, speaking, reading, and writing skills within a sociolinguistic context of Bengali-speaking people through work in the classroom and the language laboratory.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

ELV102 Elementary Bengali 2

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELV101. Listening, speaking, reading and writing skills will be further developed within a sociolinguistic context of Bengali-speaking peoples through work in the classroom and the language laboratory. All writing will be done using Bengali script.

Prerequisite: ELV101 or Exemption Exam

ELV103 Intermediate Bengali

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to further develop functional language proficiency and increase the ability to communicate accurately in Bengali within a socio-cultural context. The four communicative skills of listening, speaking, reading and writing are emphasized with particular attention paid to sentence and paragraph structure, grammatical features, and oral and written fluency.

The Bengali writing system will be reinforced. Taught in Bengali.

Prerequisite: ELV102 or Exemption Exam

ELV105 Bengali for Heritage Students

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to enable heritage speakers of Bengali to enhance their reading and writing competence through a review of grammar and usage, basic composition strategies and analysis of primary material in the language. This course is taught in Bengali.

Prerequisite: Exemption Exam

Pre- or Corequisite: CSE099, ENG098, ESL097

ELV201 Modern Bengali Literature

3 credits; 3 hours

This course will familiarize students with modern Bengali literature through selected readings from various genres. Representative authors from West Bengal and Bangladesh will be studied. This course is taught in Bengali.

Prerequisite: Exemption Exam

Chinese

ELC101 Elementary Modern Chinese 1

3 credits; 4 hours (3 lecture, 1 lab)

This course is for beginners of Modern Chinese (Mandarin) and aims to develop listening, speaking, reading and writing skills in Chinese. An understanding of Chinese culture is also nourished through the examination of cultural practices and perspectives. Students will learn Chinese pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELC102 Elementary Modern Chinese 2

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELC101 and is designed to further develop students' language fluency and proficiency, and communication skills of the target language within a cultural and linguistic context. The basic Chinese writing system and characters will be introduced.

Prerequisite: ELC101, ESL097, or Exemption Exam

ELC103 Intermediate Modern Chinese I*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELC102, Elementary Chinese 2. The purpose of the course is to help students build functional language proficiency and increase their ability to communicate in Chinese with confidence and ease. This course is taught mostly in Chinese.

Prerequisite: ESL097, ELC102, or Exemption Exam

ELC104 Intermediate Chinese II*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELC103, Intermediate Chinese 1. The purpose of the course is to help students build language proficiency at an intermediate level and increase their ability to communicate in Chinese in varying sociocultural settings. This course is taught mostly in Chinese.

Prerequisite: ELC103 or Exemption Exam

Pre-or Corequisite: ESL097

ELC105 Modern Chinese for Heritage Students*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed to help heritage speakers of Chinese to enhance their reading and writing competence of the target language in the formal and high-level register. The course especially focuses on improving students' Chinese grammar, usage, and their critical reading and writing strategies in Chinese through project-based assignments. This course is mostly taught in Chinese.

Prerequisite: ESL097, Exemption Exam

ELC106 Chinese for Heritage Speakers 2*3 credits, 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELC105, Chinese for Heritage Speakers 1. This course is designed to help heritage speakers of Chinese to enhance their reading and writing competence of the target language in the formal and high-level register. The course especially focuses on improving students' Chinese grammar, usage, and their critical reading and writing strategies in Chinese through project-based assignments. This course is taught in Chinese.

Prerequisite: ESL097, Exemption Exam

ELC115 Chinese for Community Wellness*3 credits; 4 hours (3 classroom, 1 lab)*

This course will teach the basic Chinese language (Mandarin) in the context of a diverse community setting using the communicative approach. It will focus primarily on fundamental language structures, cultural issues, and language related to health and wellness that will allow for effective interaction between community workers and Chinese-speaking residents. This is an introductory course that requires no previous experience with the Chinese language and is closed to proficient speakers of Chinese.

Pre-or Corequisite: ESL097

ELC201 Modern Chinese Literature*3 credits; 3 hours*

This course introduces students to modern Chinese literature and culture. Readings will be taken from various genres of literature, with an emphasis on modern Chinese literary expression. The course aims at strengthening the student's ability to read and discuss literature in Chinese. Special attention will be paid to the Chinese literary tradition and its relationship to Western literature.

Prerequisite: Placement Exam

ELC202 Contemporary Chinese Literature*3 credits; 3 hours*

This course is an introduction to contemporary Chinese literature. It aims at familiarizing students with the literature written in Chinese from 1949 to the present, and the concomitant transformation of Chinese socio-cultural milieu since the creation of the People's Republic of China. This course is taught in Chinese.

Prerequisite: Placement Exam

ELC203 Classic Chinese Literature*3 credits; 3 hours*

This course is an introduction to classical Chinese literature. It aims at strengthening students' ability to read and comprehend original texts written in wen yan wen, classical written Chinese. Furthermore, it enables students to have direct, zero-distance contact with genuine Chinese culture and ideology. This course is taught in Chinese.

Prerequisite: Placement Exam

ELC250: Chinese Literature in English Translation*3 credits; 3 hours*

This course is an introduction to Chinese literature in English translation. Students will read and discuss selected philosophical and historical writings, poetry, prose fiction, and drama from the Zhou Dynasty to the modern period, including Tang poems, Yuan plays, and the modern novel. Thematic and stylistic variety of the various genres will be explored. Knowledge of the Chinese language is not required.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101

French**ELF101 Elementary French I***3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed for beginners of French and aims to develop students' listening, speaking, reading and writing skills in French. An understanding of Francophone culture is nourished through the examination of cultural practices and perspectives. Students will learn French pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELF102 Elementary French II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELF101 Elementary French 1. The course is designed to further develop listening, speaking, reading, and writing within a cultural context.

Prerequisite: ESL097, ELF101, or Exemption Exam

ELF103 Intermediate French I

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELF102 Elementary French 2. The purpose of the course is to help students build functional language proficiency and increase their ability to communicate in French with confidence and ease. This course is taught mostly in French.

Prerequisite: ESL097, ELF102, or Exemption Exam

ELF104 Intermediate French 2

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELF103 and focuses on developing students' reading and writing in French and the proper use of French in cultural contexts. It aims to improve students' motivation, language fluency and cultural competence by introducing them to French and francophone society and culture through films. Each chapter, through film excerpts, provides and reinforces vocabulary, grammar structures and a rich cultural content. The course is taught in French.

Prerequisite: ELF103 or Exemption Exam

Pre-or Corequisite: ESL097

ELF105 French for Heritage Speakers

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to help heritage speakers of French to enhance their reading and writing competence of the target language in the formal and high-level register. The course especially focuses on improving students' French grammar, usage, and their critical reading and writing strategies in French through project-based assignments. This course is mostly taught in French.

Prerequisite: ESL097, Exemption Exam

ELF201 French Literature from a Global Perspective

3 credits; 3 hours

This course provides an exploration of key literary French and Francophone texts and investigates it as serious, rational, psychological, free and artistic literature. By readings and discussions our course will present a global vision on the French literature through history

Prerequisite: Placement Exam

ELF250 Modern French Literature in Translation

3 credits; 3 hours

This course is an introduction to modern French literature in English translation. Readings are chosen from important literary movements: Enlightenment, Romanticism, Dadaism, Surrealism, Existentialism, and the New Novel. Attention is paid not only to the texts themselves, but also to the literary movements and forms they represent

Prerequisite: ENA/ENC/ENG101

Hebrew**ELH250 Contemporary Hebrew Literature in Translation**

3 credits; 3 hours

This course is an introduction to Hebrew literature in English translation and the culture of Israel. The goal of the course is to familiarize students with an author, a genre or a theme and to explore the socio-cultural milieu in which it developed. Thematic and stylistic variety of various genres will be explored. Knowledge of the Hebrew language is not required.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101

Italian**ELI101 Elementary Italian I**

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed for beginners of Italian and aims to develop students' listening, speaking, reading and writing skills in Italian. An understanding of Italian culture is nourished through the examination of cultural practices and perspectives. Students will learn Italian pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELI102 Elementary Italian II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELI101, Elementary Italian 1 and is designed to further develop listening, speaking, reading, and writing within a cultural context. Students will learn more about Italian pronunciation, grammar and vocabulary in selected cultural contexts.

Prerequisite: ESL097, ELI101, or Exemption Exam

ELI103 Intermediate Italian I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to further develop functional language proficiency and increase the ability to communicate accurately in Italian within a sociocultural context. The four communicative skills of listening speaking, reading and writing are emphasized with particular attention paid to sentence and paragraph structure, grammatical features, and oral and written fluency. This course is taught mostly in Italian.

Prerequisite: ESL097, Exemption Exam

ELI104 Intermediate Italian II

3 credits; 4 hours (3 lecture, 1 lab)

This course is continuation of ELI103. The course is designed to further develop functional language proficiency and increase the ability to communicate accurately and appropriately in Italian in various sociocultural settings. The four communicative skills of listening, speaking, reading and writing are emphasized with particular attention to the paragraph structure, grammatical features, and literacy skills. This course is taught mostly in Italian.

Prerequisite: ELI103 or Exemption Exam

Pre-or Corequisite ESL097

ELI250 Italian Literature in Translation*3 credits; 3 hours*

This introduction to Italian literature begins with a discussion of Dante's *Hell* as a medieval outcry against political corruption. The course concludes with Italo Calvino's twentieth-century portrait of a man who takes to the trees as a form of social commentary. The class will explore literary themes in social and political context through diverse media. The course will be conducted in English, and students will read the literary works in English translation.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, ESL098

Japanese**ELJ101 Elementary Japanese 1***3 credits; 4 hours (3 lecture, 1 lab)*

This course aims to develop listening, speaking, reading and writing skills in Japanese. Knowledge of Japanese culture is also nourished through the examination of social practices, cultural products, and perspectives in Japan. Writing and reading of Hiragana and Katakana skills will be introduced as well.

Note: Students proficient in Japanese must take higher-level courses appropriate for their proficiency levels.

Prerequisite: ESL097, CSE095

ELJ102 Elementary Japanese 2*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELJ101 Elementary Japanese 1. The course is designed to further develop listening, speaking, reading, and writing within appropriate cultural context. While the main emphasis is placed on the spoken language, reading and writing of the Japanese scripts, including approximately 50-60 Kanji (Chinese characters), are gradually introduced. Note: Students proficient in Japanese must take higher-level courses appropriate for their proficiency levels.

Prerequisite: ELJ101 or Exemption Exam

ELJ103 Intermediate Japanese 1*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELJ102 Elementary Japanese 2. The course is designed to further develop functional language proficiency and increase students' ability to communicate accurately in Japanese within an appropriate socio-cultural context. The four communicative skills of listening, speaking, reading, and writing are emphasized in various cultural contexts. Particular attention is paid to sentence and paragraph structure, grammatical features, and oral and written fluency. The knowledge of the Kanji (Chinese characters) writing system will also be reinforced.

Prerequisite: ELJ102 or Exemption Exam

ELJ104 Intermediate Japanese 2*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELJ103 and is designed to further develop functional language proficiency and increase students' ability to communicate accurately in Japanese within an appropriate socio-cultural context. In addition to the four communicative skills of listening, speaking, reading, and writing, students will develop their ability to speak and write Japanese in different registers, particularly in the formal register. Knowledge of Kanji (Chinese characters) will be reinforced.

Prerequisite: ELJ103 or Exemption Exam

ELJ105 Japanese for Heritage Speakers*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed to help heritage speakers of Japanese enhance their reading and writing competence of Japanese in the formal and high-level register. The class especially focuses on Japanese grammar, pragmatics, usage, and students' critical reading and writing strategies in Japanese through project-based assignments. The class is taught mostly in Japanese.

Prerequisite: Exemption Exam

ELJ201 Modern Japanese Literature*3 credits; 3 hours*

This course will familiarize students with modern Japanese literature through selected readings with an emphasis on expository style. Representative authors from the Meiji, Taisho, Showa and post-war literature will be selected. [Readings are in Japanese]

Prerequisite: Exemption Exam

ELJ250 Japanese Literature In Translation*3 credits; 3 hours*

This course is an introduction to Japanese literature in English translation. Selected classics of Japanese literature representative of the major genres from the early to the modern period will be read and discussed. Thematic and stylistic variety of various genres will be explored. Knowledge of the Japanese language is not required.

Prerequisite: ENA/ENC/ENG101

Korean**ELK101 Elementary Korean I***3 credits; 4 hours (3 lecture, 1 lab)*

This course is for beginners of Korean and aims to develop listening, speaking, reading and writing skills in Korean. An understanding of Korean culture is also nourished through the examination of cultural practices and perspectives. Students will learn Korean pronunciation, grammar and vocabulary. The Korean script Hangeul will be introduced from the beginning of the course.

Prerequisite: ESL097

ELK102 Elementary Korean II*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELK101 Elementary Korean 1 and is designed to further develop students' language fluency and proficiency, and communication skills of the target language within a cultural and linguistic context.

Prerequisite: ELK101, ESL097, or Exemption Exam

ELK103 Intermediate Korean I*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELK102. The purpose of the course is to help students build functional language proficiency and increase their ability to communicate in Korean with confidence and ease. This course is taught mostly in Korean.

Prerequisite: ELK102, ESL097, or Exemption Exam

ELK104 Intermediate Korean II*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELK103 and focuses on developing students' literacy skills in Korean and socially appropriate use of Korean in various sociocultural contexts. Students also read Korean texts in a variety of discourse styles and narrative settings. This course is taught mostly in Korean.

Prerequisite: ELK103 or Exemption Exam

Pre-or Corequisite: ESL097

ELK105 Korean for Heritage Students*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed to help heritage speakers of Korean to enhance their reading and writing competence of the target language in the formal and high-level register. The course especially focuses on improving students' Korean grammar, usage, and their critical reading and writing strategies in Korean through project-based assignments. This course is mostly taught in Korean.

Prerequisite: ESL097, Exemption Exam

ELK201 Modern Korean Literature*3 credits; 3 hours*

This course will familiarize students with modern Korean literature through selected readings of representative authors from 1910 to present in English translation. The class explores, analyzes and interprets literary works reflecting major sociopolitical and historical movements, including conflicts between tradition and modernity, colonialism, construction of national identity, the Korean War and national division, and industrialization. This course is taught in Korean.

Prerequisite: Exemption Exam

ELK250 Modern Korean Literature in Translation*3 credits; 3 hours*

This course will familiarize students with modern Korean literature through selected readings of representative authors from 1910 to present in English translation. The class explores, analyzes and interprets literary works reflecting major sociopolitical and historical movements, including conflicts between tradition and modernity, colonialism, construction of national identity, the Korean War and national division, and industrialization.

Prerequisite: ELK105 or Exemption Exam

Polish**ELP101 Elementary Polish I***3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed for beginners of Polish and aims to develop students' listening, speaking, reading and writing skills in Polish. An understanding of Polish culture is nourished through the examination of cultural practices and perspectives. Students will learn Polish pronunciation, grammar and vocabulary in the context of important aspects of the culture for effective communication.

Prerequisite: ESL097

ELP102 Elementary Polish II*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELP101 Elementary Polish 1. The course is designed to further develop listening, speaking, reading, and writing within a cultural context.

Prerequisite: ELP101, ESL097, or Exemption Exam

ELP103 Intermediate Polish I*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELP102 Elementary Polish 2. The purpose of the course is to help students build functional language proficiency and increase their ability to communicate in Polish with confidence and ease. This course is taught mostly in Polish.

Prerequisite: ELP102, ESL097, or Exemption Exam

ELP105 Polish for Heritage Students*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed to help heritage speakers of Polish to enhance their reading and writing competence of the target language in the academic and formal register. Students will acquire skills that range from learning grammar and spelling, and developing vocabulary, to interpretation and analysis of different literary genres. Students will explore a broad variety of cultural themes. Topics will include: Polish literature – classic and modern, social life, contemporary affairs and films.

Prerequisite: CSE095, ESL097, Exemption Exam

ELP201 Modern Polish Literature*3 credits; 3 hours*

This course will serve as an introduction to the works of 19th, 20th and 21st century Polish writers through an examination of artistic, literary, and intellectual movements against the background of European political events from the period of the partitions, through independent statehood, German occupation and the communist experiment. The course will examine key literary and philosophical works and explore main themes of national memory and patterns of social and cultural transformation. The course will be conducted in Polish.

Prerequisite: ENG098, ESL097, Placement Exam

Portuguese

ELZ101 Elementary Portuguese I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed for beginners of Portuguese and aims to develop students' listening, speaking, reading and writing skills in Portuguese. An understanding of Portuguese language is nourished through the examination of cultural practices and perspectives. Students will learn Portuguese pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELZ102 Elementary Portuguese II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELZ101 Elementary Portuguese 1. The course is designed to further develop listening, speaking, reading, and writing within a cultural context.

Prerequisite: ELZ101, ESL097, or Exemption Exam

Russian

ELR101 Elementary Russian I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed for beginners of Russian and aims to develop students' listening, speaking, reading and writing skills in Russian. An understanding of Russian culture is nourished through the examination of cultural practices and perspectives. Students will learn Russian pronunciation, grammar and vocabulary in the context of important aspects of the culture essential for effective communication.

Prerequisite: ESL097

ELR102 Elementary Russian II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELR101 Elementary Russian 1. The course is designed to further develop listening, speaking, reading, and writing within a cultural context.

Prerequisite: ELR101, ESL097, or Exemption Exam

ELR103 Intermediate Russian

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to further develop listening, speaking, reading and writing skills in Russian within a cultural context.

Prerequisite: Exemption Exam

ELR105 Russian for Heritage Students

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed for Russian heritage students who wish to enhance their communicative skills.

Prerequisite: Exemption Exam

ELR201 Russian Literature of the 20th Century

3 credits; 3 hours

This course will familiarize students with key works by Russian writers from the end of the tsarist monarchy to the present.

Prerequisite: Placement Exam

ELR250: 20th Century Russian Literature in Translation

3 credits; 3 hours

This course is an introduction to Russian literature of the twentieth century in English translation. Selected texts covering the major genres and movements will be read, discussed, and explored. Texts are analyzed in terms of their ethical implications in the context of local and national ideologies of Russia in the 20th century. Works will be interpreted as reflecting norms and values of social and individual facts of the time. Knowledge of Russian is not required.

Prerequisite: ENA/ENC/ENG101

Spanish

ELS101 Elementary Spanish I

3 credits; 4 hours (3 lecture, 1 lab)

This course aims to develop listening, speaking, reading and writing skills in Spanish. Knowledge and understanding of Spanish culture is also nourished through the examination of cultural practices, products, and perspectives. Note: This class is not for native or heritage speakers of Spanish.

Prerequisite: CSE099, ESL098

ELS102 Elementary Spanish II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of ELS101 Elementary Spanish 1. It is designed to further develop listening, speaking, reading, and writing within a cultural context. This class is not for native or heritage speakers of Spanish. Students proficient in Spanish and heritage speakers must take higher-level courses appropriate to their proficiency levels.

Prerequisite: ELS101 or Exemption Exam

ELS103 Intermediate Spanish I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to further develop functional language proficiency and increase the ability to communicate accurately in Spanish within a socio-cultural context. The four communicative skills of listening, speaking, reading and writing are emphasized with particular attention to sentence and paragraph structure, grammatical features, and oral and written fluency. This course is taught mostly in Spanish.

Prerequisite: ELS102, ESL097, or Exemption Exam

ELS105 Spanish for Heritage Speakers I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to help heritage speakers of Spanish to enhance their reading and writing competence of the target language in their formal and high-level register. The course especially focuses on Spanish grammar, usage, and students' critical reading and writing strategies in Spanish through project-based assignments. This course is taught in Spanish.

Prerequisite: ESL097, Exemption Exam

ELS200 Latin American Literature I*3 credits; 3 hours*

This course deals with an introduction to Latin American literature and its relationship to the dynamics of social change. The course also traces the influence of European, North American, African and pre-Columbian elements on Latin American literary movements. Topics include pre-Columbian literatures, colonization and exploration, the wars of independence and abolition.

*Prerequisite: Placement test***ELS201 Latin American Literature II***3 credits; 3 hours*

This course is a continuation of Latin American Literature I. The second term deals with urbanization, social consciousness, alienation, black awareness and the new revolutions.

*Prerequisite: Placement test***ELS204 Latin American Civilizations***3 credits; 3 hours*

This course deals with an in-depth study of the peoples and cultural institutions of Latin America through the examination of selected topics such as caudillismo, machismo, mestizaje, honor, slavery and aboriginal traditions as reflected in different forms of literary and artistic expression. Students will learn to comment critically on Latin American civilization and to make significant comparisons with their own backgrounds and experiences.

*Prerequisite: Placement test***ELS209 Spanish Grammar and Usage***3 credits; 3 hours*

This course is designed as a descriptive study of the structure of the Spanish language, while offering writing practice through the analysis of lexical and morphological variations and differences in register in selected texts. Students will analyze Spanish syntax, increase their understanding of the structures of Spanish and develop stylistically correct prose. They will also be able to recognize dialectical variations, differences in register and linguistic calques. Taught in Spanish.

*Prerequisite: Placement test**Pre-or Corequisite: ESL097***ELS210 Advanced Spanish Composition***3 credits; 3 hours*

This course, conducted entirely in Spanish, is designed to integrate critical, analytical and writing skills as well as universal literary themes students have explored in courses about Latin American and other cultures. Students will explore various critical perspectives of literary analysis through research and the incorporation of secondary sources. The course is structured around three thematic units: the indigenous legacy, the African experience and the quest for identity.

*Prerequisite: ELS105 or Placement test***ELS220 Spanish for Global Business***3 credits; 3 hours*

The course is designed to enable the student to become familiar with the culture of the business world in Spanish-speaking countries and with basic concepts of business, economics and finance. Emphasis is placed on both oral and written communications that are standard in Latin American and Spanish business settings. Students will build language skills around pertinent terminology and develop a cross-cultural understanding of different styles of conducting business.

*Prerequisite: Placement Exam and ELS105***ELS250 Latin American Fiction in Translation***3 credits; 3 hours*

This course explores the thematic and stylistic variety of contemporary Latin American fiction in English translation. Students will explore the themes of dictatorship, struggle with nature, the plight of natives, mestizaje, social and political unrest and alienation through the analysis of representative stories, novellas and novels. Experimental and fantastic fiction will also be considered. Students will learn about the literary movements that influenced the writers in question.

*Prerequisite: ENA/ENC/ENG101***ELS270 Literature of the Caribbean***3 credits; 3 hours*

This course deals with a comparative study of the novel, drama, poetry, and essay of the countries in the Caribbean basin. Course content will change according to instructor and student preferences. Representative authors may include Marti, Hostos, Llorens Torres, Guillen, Lezama Lima, Mir, Bosch, Cesaire, Carpentier and Ferre.

*Prerequisite: Placement Exam and ELS105***Tibetan****ELT101 Elementary Tibetan I***3 credits; 4 hours (3 lecture, 1 lab)*

This is a course for those with little or no understanding of Tibetan. The course will focus on development of aural comprehension, and speaking and reading skills. Students will be expected to correctly produce the Tibetan sound system, master and reproduce basic sentence patterns, and achieve the ability to engage in basic Tibetan conversation.

*Prerequisite: ESL097***ELT102 Elementary Tibetan II***3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of Elementary Tibetan I. The course will focus on development of aural comprehension, speaking and reading skills. Students will be expected to correctly produce the Tibetan sound system, master and reproduce basic sentence patterns, and achieve the ability to engage in basic Tibetan conversation at an advanced basic to low intermediate level.

Prerequisite: ELT101, ESL097, or Exemption Exam

ELT105 Tibetan for Heritage Speakers*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed for heritage speakers of Tibetan. Communicative approach is used to develop conversational skills and provide the student with a foundation in grammar, pronunciation and vocabulary. The main goal is that students improve their knowledge of the Tibetan language and culture through reading selected literary and sacred texts. This class is taught in Tibetan.

*Prerequisite: ESL097, Exemption Exam***Uzbek****ELU101 Elementary Uzbek 1***3 credits; 4 hours (3 lecture, 1 lab)*

This course is for beginners without any previous instruction in Uzbek. The course is designed to develop listening, speaking, reading and writing skills. Knowledge and understanding of Uzbek culture is also discussed through the examination of cultural practices, products, and perspectives. Writing and reading of the Uzbek orthography (both Cyrillic and Latin scripts) will be introduced.

*Prerequisite: ESL097***ELU102 Elementary Uzbek II***3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of ELU101 and is designed to further develop students' language fluency and proficiency, and communication skills of the target language within cultural and linguistic context. While the main emphasis is on the spoken language, reading and writing of the Uzbek scripts will be gradually reinforced.

*Prerequisite: ELU101 or Exemption Exam**Pre-or Corequisite: ESL097***ELU105 Uzbek for Heritage Speakers***3 credits; 4 hours (3 lecture, 1 lab)*

This is course designed to help heritage speakers of Uzbek enhance their reading and writing competence in the target language in the formal and high-level register. The course especially focuses on improving students' Uzbek grammar, usage, and their critical reading and writing strategies in Uzbek thought project-based assignments. This course is mostly taught in Uzbek.

*Prerequisite: Exemption exam***Haitian Creole****ELY101: Elementary Haitian Creole 1***3 credits; 4 hours (3 lecture, 1 lab)*

This course introduces students to the language of Haitian Creole and is intended for students with little to no prior knowledge of the language. Employing new cultural perspectives, students will be guided through the four core modalities of language skills, develop conversational skills, and identify issues relates to the politics and sociolinguistic implications of Haitian Creole as an independent language.

*Prerequisite: CSE095, ESL097***ELY102: Elementary Haitian Creole 2***3 credits; 4 hours (3 lecture, 1 lab)*

This course is a continuation of Elementary Haitian Creole 1 (ELY101) and is designed to further develop students' language proficiency and communication skills of the target language within a cultural and linguistic context. Students will continue to develop the four different modalities in Haitian Creole. The course will help students comfortably navigate basic conversation in Haitian Creole and engage them in the written form of the language, at an introductory level. Course and textbook materials will be supplemented by work with film, radio, music, and relevant cultural experiential learning opportunities.

*Prerequisite: ELY101 or Placement Exam***ELY105: Haitian Creole for Heritage Speakers***3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed for heritage speakers of Haitian Creole who have received little to no prior formal training in the Haitian Creole language. Students will be guided to master the core language skills through the Haitian cultural lens. Focus will be placed on dispelling myths about the Creole language and establishing a formal foundation in the standard Haitian Creole. The Communicative Approach will be employed to develop conversational skills and to explore issues of identity as they relate to the politics and sociolinguistic implications of the Haitian Creole language.

Prerequisite: Placement Exam

Modern Languages

ELX101: Elementary Modern Language/Culture Equivalent 1

3 credits; 3 hours

This course is designed for students who wish to participate in a study-abroad program and receive Modern Language (ML) credits for a language that the College does not offer. If any existing course fits the destination of the study abroad program (e.g., Spanish for Madrid), student should use it for study-abroad equivalency rather than this course. Credits from this course will satisfy only Liberal Arts Elective or Unrestricted Elective. This course may also satisfy ML Requirement.

Pre/Co-Requisite Pre/Co: CSE095 or ESL097; ESL097.

Approval from the Study-Abroad Coordinator at LaGuardia and the Chairperson of Education and Modern Language Acquisition Department of its designee.

ELX102: Elementary Modern Language/Culture Equivalent 2

3 credits; 3 hours

This course is designed for students who wish to participate in a study-abroad program and receive Modern Language (ML) credits for a language that the College does not offer. If any existing course fits the destination of the study abroad program (e.g., Spanish for Madrid), student should use it for study-abroad equivalency rather than this course. Credits from this course will satisfy only Liberal Arts Elective or Unrestricted Elective. This course may also satisfy ML Requirement.

Requisite Pre/Co: CSE095 or ESL097; ESL097. Approval from the Study-Abroad Coordinator at LaGuardia and the Chairperson of Education and Modern Language Acquisition Department of its designee.

ELX103: Intermediate Modern Language/Culture Equivalent 1

3 credits; 3 hours

This course is designed for students who wish to participate in a study-abroad program and receive Modern Language (ML) credits for a language that the College does not offer. If any existing course fits the destination of the study abroad program (e.g., Spanish for Madrid), student should use it for study-abroad equivalency rather than this course. Credits from this course will satisfy only Liberal Arts Elective or Unrestricted Elective. This course may also satisfy ML Requirement.

Pre/Co-Requisite Pre/Co: CSE095 or ESL097; ESL097.

Approval from the Study-Abroad Coordinator at LaGuardia and the Chairperson of Education and Modern Language Acquisition Department of its designee.

ELX104: Intermediate Modern Language

3 credits; 3 hours

This course is designed for students who wish to participate in a study-abroad program and receive Modern Language (ML) credits for a language that the College does not offer. If any existing course fits the destination of the study abroad program (e.g., Spanish for Madrid), student should use it for study-abroad equivalency rather than this course. Credits from this course will satisfy only Liberal Arts Elective or Unrestricted Elective. This course may also satisfy ML Requirement.

Pre-or Corequisite: CSE095 or ESL097. Approval from the Study-Abroad Coordinator at LaGuardia and the Chairperson of Education and Modern Language Acquisition Department of its designee.

Urban Study Courses

ELN101 Introduction to Bilingualism

3 credits; 3 hours

The course provides a general introduction to bilingualism. It covers the rationale, principles and applications of a bilingual philosophy of learning. It considers cognitive, psycholinguistic, social and political aspects of bilingualism. It examines language acquisition theories and issues of language maintenance. It also introduces models of bilingual education and bilingual instruction, including past and present legislation. Experiential learning constitutes a major part of the course.

Prerequisite: ENA/ENC/ENG101

ELN105 Languages of the World and of New York City

3 credits; 3 hours

This course explores language use and language history, particularly in the New York metropolitan area. It is an investigation of the features of indigenous languages of the Americas as well as those belonging to the influx of languages from around the world, revealing their deep-seated similarities and surprising differences. It examines the preservation and change of languages and their use in cultural communities in the urban setting.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, ESL/R099.

Pre-or Corequisite: MAT095 or MAT099

This is a Writing Intensive course.

ELN194 The Puerto Rican Community Minority Group Experience

3 credits; 3 hours

This course examines the Puerto Rican community in order to provide an enhanced awareness of and sensitivity to the value systems of New York City's minorities. Students will experience first-hand the cultural heritage of one of the city's largest minorities and will learn about their contributions, conditions, and problems. Field trips will include El Barrio, Office of the Commonwealth of Puerto Rico, the Puerto Rican Traveling Theatre, and other organizations.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

This is a Writing Intensive course.

English Department

Room E103 (718) 482-5656

The English Department houses degree programs in Writing and Literature, Creative Writing, and Journalism, and it offers courses in composition, literature, creative writing, journalism, and urban studies. Our curriculum allows students to read and write about diverse traditions, both new and established, and to think critically about how gender, race, economic background, ethnic origin, sexual orientation, and religion, among other factors, are explored in a writer's text. The English Department's courses prepare students to write as a means of reflecting on and contributing to a complex and constantly changing world.

Department Faculty

Linda Chandler, Chairperson; Allia Abdullah-Matta, Olga Aksakalova, Christopher Alexander, Ece Aykol, Anita Baksh, Nancy Berke, Cristina Bruns, Evelyn Burg, Tuli Chatterji, J. Elizabeth Clark, Terry Cole, Tara Coleman, Carrie A. Conners, Catherine D. Costa, Sorin Cucu, Richard Dragan, Berton R. Eisenstadt, Thomas Fink, Meghan C. Fox, Kristen Gallagher, Ximena Gallardo, Belkis Gonzalez, Stafford Gregoire, Natalie Havlin, Jason Hendrickson, Carlos Hiraldo, Bethany Holmstrom, Rochell Isaac, Heidi Johnsen, Jacqueline M. Jones, Jayashree Kamble, Demetrios V. Kapetanakos, Lara Kattekola, Marisa A. Klages-Bombich, Karlyn Koh, Irwin Leopando, Christine Marks, Lucy McNair, Neil Meyer, Lauren Navarro, Michelle Pacht, LaRose T. Parris, Kimberly Ramirez, Leah Richards, Sonia Alejandra Rodriguez, Justin Rogers-Cooper, Victor Rosa, Joy Sanchez-Taylor, Noam Scheindlin, Christopher Schmidt, Jesse Schwartz, Charity Scribner, Sigmund Shen, John O. Silva, Naomi Stubbs, David Styler, Laura Tanenbaum, Gordon Tapper, Lilla Toke, Ting Man Tsao, Phyllis van Slyck, Lykourgos Vasileiou, James Wilson, Xiaoping Yen, Susan Young, Yu Zhang, Dominique Zino.

Composition/Writing

ENA099 Basic Writing I

0 credit; 7 hours (6 lecture, 1 lab)

In this course students write coherent essays in varied academic formats, responding to culturally diverse materials and using appropriate technology. Students focus on critical and analytical skills and study aspects of argumentation including formulating theses; researching, evaluating, and documenting sources; and communicating persuasively. Three additional hours a week support students with lower placement scores. Admission is based on college placement test scores. Course meets seven classroom hours weekly.

Prerequisite: First semester students only who have not passed the CATW, based on placement.

Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101.

ENA101 Composition I Accelerated

3 credits; 7 hours

In this course students write coherent essays in varied academic formats, responding to culturally diverse materials and using appropriate technology. Students focus on critical and analytical skills and study aspects of argumentation including formulating theses; researching, evaluating, and documenting sources; and communicating persuasively. Three additional hours a week support students with lower placement scores. Admission is based on college placement test scores. Course meets seven classroom hours weekly.

Prerequisite: Students who passed ACCUPLACER Reading (reading score of 55+) or placed into CSE 099 (reading score of 45-54). Students with placement of 36-55 on the CATW.

ENC101 Composition I: An Introduction to Expository Writing

3 credits; 5 hours

In this course students write coherent essays in varied academic formats, responding to culturally diverse materials and using appropriate technology. Students focus on critical and analytical skills through reading and listening and study aspects of argumentation including formulating theses; researching, evaluating, and documenting sources; and communicating persuasively. One additional hour each week support students with lower placement scores in achieving college-level writing with an emphasis on the recursive writing process and intensive practice in college-level writing. Admission is based on college placement test scores and is reserved for first semester students only. Course meets five classroom hours weekly.

Prerequisite: First semester students only with a score of 48-55 on the CATW. Students also must have passed the ACCUPLACER reading test with a passing score of 75-120.

ENG099 Basic Writing I

0 credit; 5 hours (4 lectures, 1 lab)

(Equivalent to Quick Start USW099)

Basic Writing I is designed to introduce and develop college level writing proficiency through careful attention to the writing process. Students will learn process-based writing of structured essays in multiple genres to clearly express ideas in edited U.S. English. Assignments and coursework will prepare students with the skills necessary to succeed in Composition I. Admission is based on college placement scores.

Prerequisite: ESL/ESR099

ENG101 Composition I: An Introduction to Composition and Research*3 credits; 4 hours*

In this course students write coherent essays in varied academic formats, both in and out of class, responding to culturally diverse materials and using appropriate technology. Students focus on critical and analytical skills through reading and listening and study aspects of argumentation including formulating theses; researching and identifying sources; evaluating and documenting sources; and communicating persuasively across contexts, purposes, and media. Admission is based on college placement test scores. The course meets in four scheduled classroom hours per week.

Prerequisite: CSE095/099, ENA/ENG099, ESA099, ENA/ENC101

ENG102 Composition II: Writing Through Literature*3 credits; 3 hours*

This course extends and intensifies the work of Composition I, requiring students to write critically and analytically about culturally-diverse works of literature. Students are introduced to poetry, drama, and fiction, employing close-reading techniques and other methods of literary criticism. Writing assignments follow a variety of academic formats, including the critical research essay, using research methods and documentation procedures. Admission to the course requires completion of Composition I.

Prerequisite: ENA/ENC/ENG101 and CSE099

ENG103 The Research Paper*3 credits; 3 hours*

In this course, students engage in the process of developing an independent academic research project. The course emphasizes strategies for selecting an appropriate academic research topic; formulating research questions; conducting, integrating and citing research; and developing an argument. Students deepen their sense of audience awareness, as they engage in the recursive writing process and consider different genre conventions and rhetorical appeals.

Prerequisite: CSE099, ENA/ENC/ENG101

ENG106 Critical Writing: Analysis and Argumentation*3 credits; 3 hours*

This course is designed to reinforce and add to the skills developed in Composition I. Emphasis will be placed on those skills central to planning, composing and revising essays of argumentation and critical analysis. Students will also work on developing greater variety and brevity of style and will write a series of essays, including precis, analyses and critiques, based on related readings. A final term paper will contain an independent evaluation of secondary sources.

Prerequisite: ENA/ENC/ENG101

ENG/ELL110 English Grammar Syntax*3 credits; 3 hours*

This is a grammar and syntax course. The course focuses on the grammatical structures necessary in academic discourse. The course begins with a review of the English verb system and covers preposition use, English word order, adverb, adjective and noun clauses, reported speech, article usage, complex conditionals and passive voice. Additional topics may be selected in response to particular needs and interests of the students in the class.

Pre- or Corequisite: CSE095, ESL/ESR099

ENG/HUC238 Screenwriting*3 credits; 3 hours*

This is a course in the art and craft of writing a fictional narrative for the screen. Screenwriting genres and applications vary widely, yet every one reaches its audience through storytelling. Students examine the ways cinematic narratives show, rather than tell. Students then create their own 10-minute movie script. They explore scene and act structure, character development, dialogue, description, etc. Students learn professional standards for writing for the screen and how to use screenplay software.

Prerequisite: ENA/ENC/ENG101

ENG259 Composition II: Technical Writing*3 credits; 3 hours*

This course will focus on the role of writing in engineering, mathematics and computer science. Topics will include practical formats within technical writing, expository and periodical writing on scientific and technological subjects, and other compositional and rhetorical strategies that develop and improve students' abilities in effective written communication. Students will write essays based upon readings in their textbooks and professional essays and articles.

Prerequisites: ENC/G101, MAT096

Pre-corequisite: CSE099

ENN198 Creative Writing Workshop*3 credits; 3 hours*

This course introduces students to the elements of creative writing by using New York as a writer's laboratory. Field trips to city places such as schools, streets, parks will lead to writing that uses these places and the people in them as themes. Students will write a variety of creative pieces — sketches, brief narratives, poems, dramatic dialogues dealing with this glimpsed New York life. Reading of and visits with New York writers writing on New York themes will complement these activities.

Prerequisite: ENA/ENC/ENG101

This is a Writing Intensive course.

ENZO99 Basic Writing II: ACT Preparation Workshop*0 credit; 4 hours*

Basic Writing II is designed to reinforce writing skills acquired in ENA/G099 for students who have passed Basic Writing I but who have not yet passed the writing portion of the CUNY Assessment Test in Writing (CATW). The course provides concentrated test-taking strategies and practice necessary for writing argument essays under time constraints. The course also acts, by reinforcement and enhancement of essay writing, as additional preparation for ENG101: Composition I.

*Prerequisite: ENA/ENG099, ESA099, ENA/ENC101***Journalism****ENG208 Introduction to Digital Journalism***3 credits; 3 hours*

The purpose of Introduction to Digital Journalism is to provide students with a basic working knowledge of online journalism today, including the technical skills using blogs and social media, producing video, audio and still digital photographs to enhance written stories. Students will look at existing examples of professional digital journalism and create their own content combining writing, photos, videos and / or audio on their own blogs or custom websites.

*Prerequisite: ENG102***ENG209 Advanced Digital Journalism***3 credits; 3 hours*

The purpose of the Advanced Digital Journalism course is to allow New Media Digital Journalism Track majors to deepen their knowledge of the tools and techniques used in digital journalism today, and to develop a substantial semester-length project and portfolio mentored by their instructor. Projects may include a variety of digital artifacts including custom written and web content, including a website or blog incorporating a combination of digital audio, photography, video, interactivity and / or data visualizations.

*Prerequisite: ENG208***ENG210 Journalism: Its Scope and Use***3 credits; 3 hours*

This course provides an overview of journalism with an emphasis on print and related areas, such as in-house publications and public relations writing. Also to be covered are the history and impact of journalism, particularly the changing role of women and minorities in the press. News reporting, editing, production, newsroom organization and management will be explored through writing assignments, demonstrations and visits to LaGuardia's newspaper as well as professional news publications.

*Prerequisite: ENA/ENC/ENG101***ENG211 Journalism: The Craft of Gathering and Reporting the News***3 credits; 3 hours*

This course emphasizes writing various types of hard news stories for mainstream and community newspapers. Students also learn how to use different interview styles to cover a variety of newsbeats. Students will be involved in writing for the College newspaper. Field trips to newsrooms will enable students to write reports on potential careers in news writing.

*Prerequisite: ENA/ENC/ENG101***ENG212 Feature Writing for Newspapers and Popular Magazines***3 credits; 3 hours*

This course introduces students to writing various types of feature stories, such as the human interest story, the lifestyle column, opinion and reviews (films, theater, books). To gather material for these features, students will learn how to vary their interview techniques. Press law which applies to writing reviews and opinion will be covered. Each student will also have an opportunity to write a feature profiling cultural diversity at LaGuardia.

*Prerequisite: ENA/ENC/ENG101***ENG213 Broadcast Journalism: Writing for Radio***3 credits; 3 hours*

This course introduces student to the essentials of radio news writing. Students learn how to prepare for radio news interviews, how to outline, write and edit radio news spots of various styles, how to proofread stories to avoid violating FCC regulations. This course also focuses on writing for community-based radio stations. Students will visit a community radio station and will write about careers in radio journalism.

*Prerequisite: ENA/ENC/ENG101***ENG220 Seminar in Writing Education and Peer Tutoring***4 credits; 4 hours*

The Seminar in Writing Education and peer Tutoring combines discussion of writing theory with actual tutoring and mentoring experiences. Students will learn about methodologies of composition instruction and practice tutoring strategies designed especially for community college students. They will observe Writing Center tutorials as preparation for tutoring in a basic writing or composition class. Students taking this class should be interested in writing, education and peer mentorship.

*Prerequisite: ENA/ENC/ENG101***ENG277 Creative Writing: New Media Workshop***3 credits; 3 hours*

This course introduces students to the use of new media technologies as tools, sources and platforms for creative writing. Students will read and discuss literary models and criticism to develop an understanding of relevant concepts and techniques; including works for print, web, social media, and mobile devices. Students will create their own works, present for critique, and revise. The course is scaled to accommodate students with a variety of technical skills from the internet user to the programmer/designer.

Prerequisite: ENA/ENC/ENG101

Literature

ENG204 Asian American Literature

3 credits; 3 hours

This course examines the achievements of Asian American writers, exploring ways in which these writers represent community, class, nation, race, ethnicity, gender, sexuality and culture, and analyzing recurrent themes such as identity, generation conflict and assimilation. Literary works written in English by Khaled Hosseini, Henry David Hwang, Maxine Hong Kingston, Jhumpa Lahiri, Chang-rae Lee, Bharati Mukherjee, John Okada and Wakako Yamauchi, among others, might be studied.

Prerequisite: ENA/ENC/ENG101

ENG205 The Bible as Literature

3 credits; 3 hours

This course is designed to analyze the Bible critically as a literary compilation with particular consideration to the following forms: myth, epic narrative, drama, poetry, prophecy and parable. Questions of literary history, canonicity, authorship and source materials are considered. Various translations (e.g., King James, Coverdale, Jerusalem) may be examined comparatively for their use of language. Selections for study are chosen for their impact on subsequent literature, as well as for their artistic merit.

Prerequisite: ENA/ENC/ENG101

ENG225 Afro-American Literature

3 credits; 3 hours

This course is a survey of African-American literature from its beginning to the present day, including the slavery era, the era of accommodation and protest, the Harlem Renaissance, the integrationist movement, the era of black aestheticism and the post-1960s decades. Writers to be studied might include Wheatley, Douglass, DuBois, Hughes, McKay, Brown, Wright, Brooks, Walker, Ellison, Baldwin, Hansberry, Baraka, Morrison, Naylor and Wilson, among others.

Prerequisite: ENA/ENC/ENG101

ENG235 Cultural Identity in American Literature

3 credits; 3 hours

This course will explore the diverse voices of writers in the United States through a consideration of cultural context. Literature to be discussed may include the contributions of African-American, Asian-American, Euro-American, Latino/a-American and/or Native American writers. Such themes as cultural dislocation, alienation, and re-envisioning identity will be highlighted.

Prerequisite: ENA/ENC/ENG101

ENG245 Images of Women in Literature

3 credits; 3 hours

This course is designed to familiarize the student with the ways in which the role of women has been portrayed in literature. By identifying various stereotypes and certain recurrent themes, students will be made aware of how literature reflects and

sometimes determines societal expectations. Works by both male and female authors will be examined including such authors as Henrik Ibsen, D.H. Lawrence, Ernest Hemingway, Tennessee Williams, Edward Albee, Sylvia Plath, Mary Gordon, Toni Morrison, Alice Walker, and Audre Lorde.

Prerequisite: ENA/ENC/ENG101

ENG247 The Woman Writer: Her Vision and Her Art

3 credits; 3 hours

This course will explore the unique experience of the woman writer. Studying works written by women from a variety of cultures, races, and classes will reveal how being a woman has influenced the woman writer's creative interpretation of the human condition. Maya Angelou, Charlotte Bronte, Maxine Hong Kingston, Emily Dickinson, Tillie Olsen and Leslie Marmon Silko will be read.

Prerequisite: ENA/ENC/ENG101

ENG248 Latino/Latina Writing of the United States

3 credits; 3 hours

This course examines the contributions to American literature made by Chicana, Puerto Rican, Cuban and Dominican women writers in the United States over the last thirty years. It surveys the variety of Latina writing and explores the ways in which Latina writers represent community, class, race, gender, culture, nation and ethnicity in their works. Poetry, fiction, essays, autobiographical prose, and dramatic works by authors such as Julia Alvarez, Gloria Anzaldúa, Sandra Cisneros, Judith Ortiz Cofer, Cristina Garcia, Cherrie Moraga and Nicholasa Mohr will be studied.

Prerequisite: ENA/ENC/ENG101

ENG250 The Short Story

3 credits; 3 hours

This course will examine the development and conventions of the short story providing analysis of representative short stories in the context of their biographical, social, intellectual and artistic backgrounds. Stories will be chosen to reflect a diversity of cultural, racial and ethnic experiences. Such authors as Eudora Welty, Anton Chekhov, Richard Wright, F. Scott Fitzgerald, Willa Cather, Gloria Anzaldúa, Charlotte Perkins Gilman, Yukio Mishima, Nadine Gordimer, Gloria Naylor and Bharati Mukherjee will be studied.

Prerequisite: ENA/ENC/ENG101

ENG252 Sexuality in Literature

3 credits; 3 hours

This course will introduce students to literature in which sexuality provides the dominant themes, motifs, or images. Issues such as sex as a metaphor for violence, pornography vs. eroticism and the Idealized Lover may be discussed. Authors examined might include Chaucer, Bernard Malamud, Virginia Woolf, Walt Whitman, Donald Goines, Alta and Victor Hernandez Cruz. Works such as *For Colored Girls...*, *Lolita*, *Lady Chatterley's Lover*, *The Color Purple* and *The Picture of Dorian Gray* may be included.

Prerequisite: ENA/ENC/ENG101

ENG256 Humor in Literature*3 credits; 3 hours*

This course introduces students to humor in literature from the Classic period to the present in the genres of drama, poetry and fiction and provides them with interpretive skills required for an appreciation and understanding of the texts. In reading the work of such authors as Aristophanes, Shakespeare, Ishmael Reed and Fran Lebowitz, the class will define and examine examples of humorous literature such as satire, romantic comedy, parody, and farce.

*Prerequisite: ENA/ENC/ENG101***ENG260 The Novel***3 credits; 3 hours*

This course introduces students to ways of reading, discussing and writing about novels through a close reading and analysis of their elements, and a consideration of their social, cultural and artistic contexts. Novels from a diverse range of sexual, racial, class and ethnic perspectives, from the 18th century to the present, will be selected, including such writers as Jane Austen, James Baldwin, Charles Dickens, F. Scott Fitzgerald, Zora Neale Hurston, Yasunari Kawabata, Gabriel Garcia Marquez, Toni Morrison, Mark Twain and Richard Wright.

*Prerequisite: ENA/ENC/ENG101***ENG261 Literature of Difference: Lesbian/Gay Writers***3 credits; 3 hours*

This course will explore the literature and experiences of lesbian and gay writers. Examining these works will reveal how sexual orientation influences the authors' creative interpretations of themselves, their culture, and the world at large. Themes of growing up gay, coming out, families, relationships, communities, homophobia, AIDS, aging, loss and renewal are explored. Such writers as Brown, White, Lorde, Leavitt, Gomez, Beam, Baldwin, Kramer, Anzaldua and Sarton will be studied.

*Prerequisite: ENA/ENC/ENG101***ENG265 The Drama***3 credits; 3 hours*

In this course, students are introduced to the drama. The characteristics of the form will be examined. Examples of the genre from major periods of its development will be studied, including plays by a range of culturally diverse authors such as Sophocles, William Shakespeare, Oscar Wilde, Henrik Ibsen, Eugene O'Neill, Lillian Hellman, Lorraine Hansberry, Arthur Miller, Tennessee Williams, Samuel Beckett, John Guare and August Wilson.

*Prerequisite: ENA/ENC/ENG101***ENG266 Shakespeare***3 credits; 3 hours*

This survey course examines a selection of Shakespeare's writings. It also looks at Renaissance social, intellectual and cultural contexts in order to help students understand Shakespeare's world. The course concentrates on various sonnets or poems and a representative selection of plays from the history plays, comedies, "problem plays," tragedies and romances.

Whenever possible, through visits to the theatre or film viewing, students are introduced to the "living Shakespeare."

*Prerequisite: ENA/ENC/ENG101***ENG268 The Immigrant Experience in American Literature***3 credits; 3 hours*

This course will offer an introduction to literature written by and about immigrants in America. Attention will be given to the immigrant's experiences and struggles as seen in novels as well as poems, stories and plays. The works of such major writers as Willa Cather, Arthur Miller, James T. Farrell, Mario Puzo, Philip Roth, Alex Haley, William Saroyan, Rene Marques, Paule Marshall, Claude McKay and Maxine Hong Kingston will be considered.

*Prerequisite: ENA/ENC/ENG101***ENG269 Contemporary Black American Fiction***3 credits; 3 hours*

This is a consideration and analysis of a selected number of major Afro-American fiction writers from 1952 to the present. Emphasis will be placed on both the survival of older fictional concerns (e.g., racism, violence, the search for identity) and the appearance of new trends (e.g., the employment of folklore materials, the revitalized use of Black dialects, the emergence of a group of women writers). Works by such authors as Ralph Ellison, James Baldwin, John Williams, Toni Morrison, Albert Murray, Alice Walker, Ernest Gaines and Ishmael Reed will be read.

*Prerequisite: ENA/ENC/ENG101***ENG270 Introduction to Poetry***3 credits; 3 hours*

This course introduces students to basic elements, formal conventions, and social contexts of poetry from different countries and historical periods. Varying critical perspectives will be employed. Students will analyze works by such poets as Tu Fu, William Shakespeare, Emily Dickinson, W.B. Yeats, Langston Hughes, Pablo Neruda, Louise Bennett, Rosario Castellanos, Wislawa Szymborska, A.K. Ramanujan, Audre Lorde, and Leslie Marmon Silko.

*Prerequisite: ENA/ENC/ENG101***ENG271 Poetry Writing***3 credits; 3 hours*

This course is designed to introduce students to poetry writing. In writing and revising poems, students will utilize a variety of writing styles. For example, they will practice formal modes such as sonnet, blank verse and sestina, and they will also write free verse. In order to locate stylistic and thematic approaches for their own poems, students will read and discuss poetry in a variety of styles and historical modes. They will have the opportunity to hear poets read works and discuss the writing process. Engaging frequently in peer critiquing of each other's work, students will also develop criteria for evaluating their own poetry and for doing revision. By the end of the semester, they will learn how to submit poetry for publication.

Prerequisite: ENA/ENC/ENG101

ENG/HUC272 Literature and Film*3 credits; 4 hours*

This course studies the similarities and differences between literature and film. By comparing and contrasting literary works (complete and excerpts) with films, the course illuminates the methods, structures and contents of the two media, as well as their relationship. Writers to be considered may include Shakespeare, Keats, Dickens, Dickinson, Wright, and West; films to be viewed may include those made by Griffith, Chaplin, Eisenstein, Riefenstahl, Flaherty and Resnais.

*Prerequisite: ENG102, HUC150 or HUC270***ENG274 Creative Nonfiction Workshop***3 credits; 3 hours*

This course introduces students to creative non-fiction writing, writing that uses true events for literary effect. In writing and revising creative non-fiction, students will learn and practice a variety of forms, including personal essay, memoir, literary journalism (or narrative non-fiction) and biography. Students will work to improve their technique and develop individual voices, but will also work in groups to discuss ways to improve their work. They will read works by published authors and will also learn how to submit their own work for publication.

*Prerequisite: ENA/ENC/ENG101***ENG275 The Great Writer***3 credits; 3 hours*

This course studies the work of a single major author. Students will examine the author in depth, exploring the writer's career, major works, literary influence and cultural context in order to understand his or her contribution to literary history. The author selected might be Chaucer, Milton, Austen, Dickens, Whitman, Dickinson, Wright, Faulkner, Hughes, Soyinka or Morrison.

*Prerequisite: ENA/ENC/ENG101***ENG276 Fiction Writing Workshop***3 credits; 3 hours*

This course focuses on the technical and stylistic elements of crafting fiction with the goal of creating fully revised, original short stories. The course utilizes draft sessions addressing the critical elements of fiction and the revision process. The course readings will emphasize world writers of the short story, and the course may include field trips to hear published writers reading their work. The final portion of the course will address the preparation of short stories for professional submission.

*Prerequisite: ENA/ENC/ENG101, ENN198***ENG280 Children's Literature***3 credits; 3 hours*

This course is designed to familiarize students with various types of children's literature, including folklore, modern fantasy, picture books and realistic fiction. Students also learn how to evaluate the literary standards and pluralistic character of the literature and how to choose books to share with children from pre-school through elementary school. Through a study of works from such authors as Hans Christian Andersen, E.B. White, Virginia Hamilton, Pura Belpre, Laura Ingalls Wilder,

Julius Lester, C.S. Lewis, Jamake Highwalter, A.A. Milne and Maurice Sendak, among others, the basic themes of children's literature will be explored.

*Prerequisite: ENA/ENC/ENG101***ENG288 Writing and Literature Major Internship***3 credits; 18 hours (3 lecture, 15 lab)*

The purpose of the Writing and Literature Major Internship course is to provide majors with internships with a faculty member in order to design and complete, or complete a significant portion of, a major scholarly, research, creative, or social project with the intent to publish, present, or otherwise make available the outcomes of the project. This project may take the form of a group internship course to produce an in-house publication, such as the student newspaper or literary journal.

*Prerequisite: MAT096, ENG102***ENG289 Introduction to Literary Studies***3 credits; 3 hours*

Students read, discuss, and write analytic essays about significant concepts and texts in literary critical theory. They also learn to engage with critical approaches, which stem from multiple disciplines, and relate them to literary texts. Concepts covered may derive from such theorists as Aristotle, Longinus, Kant, Mikhail Bakhtin, Walter Benjamin, Jacques Lacan, Jacques Derrida, Michel Foucault, Helene Cixous, Edward Said, Henry Louis Gates, Gloria Anzaldua, and Judith Butler.

*Prerequisite: ENG102 or waiver***ENG290 British Literature I***3 credits; 3 hours*

This course covers the development of early British Literature from the Anglo-Saxon era to 1660. Authors include, among others, the Beowulf poet, Chaucer, Mary Sidney, Spenser, Shakespeare, Donne and Milton. In addition to exploring evolving literacy genres and styles, students will study key social, political and cultural influences on the works and their historical periods. They will also study and reflect on the emerging women voices of the age.

Prerequisite: ENG102

KRISTIAN LARROTA / LAGUARDIA COMMUNITY COLLEGE

ENG291 British Literature II*3 credits; 3 hours*

This course covers major writers, genres and themes in British literature from 1660 to the present. This includes Restoration, Neoclassicism, Romanticism, Victorianism, Modernism and Post-modernism. Attention will be given to social, intellectual, cultural and political contexts in order to help the students understand the works. In addition to reading major authors from John Dryden to Zadie Smith, the course may examine ballads, slave narratives, journalism, diaries, pamphlets and other genres.

*Prerequisite: ENG102***ENG292 American Literature I***3 credits; 3 hours*

This course examines the development of an American literature from colonial/contact period to the emancipation of African Americans at the end of the United States Civil War. It surveys a broad range of writers, texts and themes that have shaped American identities. Fiction, poetry, essays and autobiographical prose by authors such as Douglass, Dickinson, Emerson, Franklin, Rowlands, Wheatley and Winthrop will be studied.

*Prerequisite: ENG102***ENG293 American Literature II***3 credits; 3 hours*

This course examines the development of literature written in the United States from the end of the Civil War to the present. The course covers major literary movements such as Realism, Naturalism, Modernism and Postmodernism, and highlights the diverse political, social and cultural contexts involved in shaping them. Genres such as fiction, poetry, essay, drama, and autobiography by authors such as Hemingway, Toomer, Miller, Morrison and Silko will be studied.

*Prerequisite: ENG102***ENG294 Classical Literature***3 credits; 3 hours*

This course surveys Greek and Roman classical literature from Homer to Marcus Aurelius. While the principal focus is historicized, much attention is given to the diversity of genres, the interplay of mythology and philosophy, the rich variety of characters and the seminal themes represented in these texts.

*Prerequisite: ENA/ENC/ENG101**Pre- or Corequisite: ENG102 or permission of the English Department***ENG295 World Literatures Written in English***3 credits; 3 hours*

This capstone course introduces students to postcolonial literatures of the Anglophone diaspora. Texts may include literary works from Africa, South and Southeast Asia, Australia, Canada, the Caribbean, Ireland and New Zealand. Students will examine world literatures in their historical and cultural contexts. In some semesters, the course may focus on one particular geographical region and/or ethnic group.

*Prerequisite: ENG102, must have completed 40 credits***ENN191 Art, Politics, and Protest***3 credits; 3 hours*

This course examines political and/or protest art as expressed in literature, song, drama, and other arts. Issues in New York that stirred or are stirring artistic responses will be given special emphasis. Activities will include visits to museums such as the Metropolitan Museum of Art or the Museum of Modern Art, to galleries in Greenwich Village or Soho, to Ellis Island, to Broadway and off-Broadway productions and to individual communities.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101**This is a Writing Intensive course.***ENN/SSN193 Ideal Societies***3 credits; 3 hours*

This course is designed to help students understand utopian movements in urban society from historical, psychological and sociological perspectives. This course will focus on both the causes for creating utopian experiments and the ways in which utopias approach family structure, religion, education, power and economic organization. Literary versions of utopian communities will be studied. Field trips may be taken to such places as Roosevelt Island and Shaker Village.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective from the list on page 192.**This is a Writing Intensive course.***ENN195 Violence in American Art and Culture***3 credits; 3 hours*

This course surveys the depiction of various types of violence and the use of violence as a theme or metaphor in North American literature, art, and popular culture. Emphasis is placed on New York City as a laboratory and resource for researching considerations of violence in poetry, drama, fiction, film and other visual art forms as well as popular culture (e.g., lyrics, comic strips, advertising, horror and suspense stories).

*Prerequisite: ENA/ENG099, ESA099, ENA/ENC101**This is a Writing Intensive course.***ENN240 Literature of the City (formerly ENG240)***3 credits; 3 hours*

This course is designed to introduce students to the literature of the city. Students will explore important urban themes, social issues, and cultural developments in the short stories, essays, poems, autobiographies, plays, and novels of major city writers such as Charles Dickens, Walt Whitman, Thomas Mann, James Baldwin, Frank O'Hara, Grace Paley, Anna Deveare Smith, Chang-Rae Lee, John A. Williams, Hanif Kureishi and Oscar Hijuelos. Also popular art forms such as journalism, song lyrics and film may be examined. Students will read and discuss issues of contemporary urban literary magazines like New York Stories. There will be one or more field trips.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101**This is a Writing Intensive course.*

Health Sciences Department

Room E300 (718) 482-5774

Department Faculty

Philip Gimber, Chairperson, Faith Armstrong, Tameka Battle, David Bimbi, Justin Brown, Clarence Chan, Catherine Colangelo, Marianne Cu, Patricia Dillon, Maureen Doyle, David Emig, Debra Engel, Natalya Fazylova, Ann Feibel, Nicolle Fernandes, Les Gallo-Silver, Unn Hidle, Luisa Hindle, Kumral Hudu, Margarita Israilova, Kathleen Karsten, Juline Koken, Regina Lehman, Karren Liebert, Theresa Licari, Jennifer Louis, Lorena Maldonado, Deborah McMillian-Coddington, Michele Mills, Ralph Mitchell, Kyaw Naing, Margaret Norris, Lisa O'Donnell, Jenny Palios, Bindu Pillai, Sherrell Powell, Roxanne Reid, Suzanne Rosenberg, Herbert Samuels, Tara Scales, Arlene Spinner, May Tom, Marina Yuabova

First Year Seminar

HSF090 First Year Seminar for Health Sciences

0 credits; 1 hour

This First Year Seminar is required of all new students majoring in a program within the Health Sciences Department. This course addresses issues related to contemporary college life and provides students with the skills to transition to campus culture, develop a clear understanding of the learning process, and acquire the skills and dispositions essential to the study and practice of the health sciences in a professional capacity.

Nutrition and Culinary Management

SCD100 Foods

3 credits; 5 hours (2 lecture, 1 recitation, 2 lab)

This course will investigate the didactic and experiential components of the scientific study of foods. Upon completion of the course, the student will have acquired a basic understanding of the scientific principles governing foods and the use of commercial foodservice equipment. Emphasis will be placed on the identification of qualitative aspects of foods and elementary food preparation techniques.

Prerequisite: ENA/ENC/ENG101, MAT096

Co-requisite for DT only: SCD000, SCD206

SCD107 Careers in Food and Nutrition

1 credit; 1 hour

This course introduces students to the available careers in the food and nutrition industry. Topics include the role and function of the food and nutrition professional, professional ethics and conduct, professional organizations, and the skills necessary to complete fieldwork/ internship. Students will explore personal and career goals as they develop a professional ePortfolio.

Prerequisite: ENA/ENC/ENG101, MAT096, SCD100

SCD114 Culinary Arts I

2 credits; 5 hours (2 lecture, 3 lab)

This course introduces students to terms, concepts, and methods used in the culinary arts through classroom instruction and laboratory application. Fundamental techniques, skills, and principles governing the preparation of food are addressed to include the kitchen brigade, cooking techniques, heat transfer, knife skills, the sensory evaluation of food, culinary math, and equipment usage.

Prerequisites: MAT096/099,

Pre-Corequisites: ENA/ENC/ENG101

SCD200 Introductory Nutrition

3 credits; 3 hours

This course integrates nutrition science with the physical and life sciences: chemistry, biology, anatomy, and physiology. Evidenced based research directs the study of digestion, absorption and metabolism of nutrients; the physical and chemical properties of nutrients; their metabolic functions; and food sources. Socio-economic and behavioral factors that influence food selection and accessibility are addressed.

Prerequisite: MAT096

Pre-corequisite: ENC/G101

SCD202 Clinical Nutrition

3 credits; 5 hours (2 lecture, 3 lab)

This course is a continuation of the study of the relationship between diet and disease begun in Clinical Nutrition A. Emphasis will be placed on the dietary implications of gastrointestinal diseases, diseases of the liver, pancreas, gallbladder, kidney, surgery and cancer. Students will learn methods of calculating enteral and parenteral diets.

Prerequisite: SCD201

SCD203 Life Cycle Nutrition

3 credits; 4 hours

This course is the study of the nutrient needs of individuals throughout the life cycle. Emphasis will be placed on nutrition and food related behaviors, and the assessment of the physiological, socioeconomic and cultural factors affecting nutritional status. Nutrition and food related services of the government and non-profit agencies will be discussed.

Prerequisite: SCD200

Co-requisites for DT only: SCD222, SCD253

SCD204 Nutrition and Disease

3 credits; 5 hours (2 lecture, 3 lab)

This course is a study of the relationship between diet and disease. Students will apply medical nutrition therapy to various disease conditions such as diabetes, weight management, cardiovascular disease and hypertension, gastrointestinal disorders/disease, disease of the liver, pancreas, gallbladder and kidney, stress, HIV and cancer. Students will also learn about diet progressions and alternate feeding methods/routes; enteral and parenteral nutrition.

Prerequisite: SCD200

SCD205 Introduction to Culinary Arts

2 credits; 5 hours (2 lecture, 3 lab)

This course introduces the student to advanced culinary techniques with an emphasis on food presentation and garniture. Topics include knife skills, recipe development, menu planning and cost control. Professional cooking techniques are utilized and students are introduced to the organization of the classical kitchen.

Prerequisite: SCD100, SCD251

SCD206 Nutrition Counseling

3 credits; 5 hours (2 lecture, 3 lab)

This course introduces students to the concepts, techniques, and skills needed to assess a client's nutritional needs, and to promote wellness through nutritional planning, counseling and education. Topics to be included are communication skills, education principles, interviewing and counseling techniques, and behavior modification, as well as the development, implementation, and documentation of a client nutrition care plan.

Prerequisite: SCD000, SCD200

SCD100 is a corequisite for Dietetic Technician majors only

SCD214 Culinary Arts II

3 credits; 5 hours (2 lecture, 3 lab)

This course builds on the culinary skills and techniques introduced in Culinary Arts I. The role of the kitchen brigade in culinary productions is emphasized. Laboratory applications address current trends in haute, nouvelle, ethnic, and fusion cuisine as well as food pairing, garniture, and presentation

Prerequisites: SCD114

SCD221 Dietetic Field Experience II

2 credits; 1 seminar hour, 16 fieldwork hours

This fieldwork course is an application of the principles learned in Clinical Nutrition A. With supervision, students review medical records, interview patients to obtain nutrition histories and develop and document nutrition care plans. Students calculate and plan diets for weight control, diabetes and cardiovascular diseases. Attendance at a weekly seminar is required. Students must provide proper uniform, liability insurance, and evidence of physical examination.

Prerequisite: SCD201, SCD260

Corequisite: SCD202

SCD222 Dietetic Field Experience III

2 credits; 1 seminar hour, 16 fieldwork hours

This fieldwork course provides for the application of the principles learned in courses throughout the dietetic technician curriculum. The student will refine skills acquired from previous academic and fieldwork experiences. The student will choose placement at a foodservice management, clinical nutrition or community site. Attendance at a weekly seminar, designed to prepare the student for entrance into the job market, is required. Students must provide evidence of liability insurance and physical examination prior to beginning this course.

Prerequisite: SCD221

SCD250 Menu Planning and Production

3 credits; 5 hours (2 lecture, 3 lab)

This course covers the basic principles involved in the planning preparation and service of large quantities of food in foodservice facilities. Topics include food selection variables, menu planning techniques, forecasting procedures, "front and back of the house" management, recipe standardization, conversion and costing. Term projects are required.

Prerequisite: SCD114; SCD251

SCD251 Principles of Sanitation

2 credits; 2 hours

This course addresses the sanitation and safety principles that guide the flow of food through a culinary operation. Topics covered include the proper handling of food from procurement to service, facilities layout and design, cleaning and sanitizing procedures, and integrated pest management.

Prerequisite: SCD114

SCD252 Principles of Purchasing

3 credits; 3 hours

This course provides an overview of the distribution channel in which food and goods are purchased in the culinary industry. Primary focus is on market analysis, supplier selection, forecasting and planning, cost controls receiving procedures, inventory controls, and ethical behavior. Global Sustainability practices in the culinary industry are addressed.

Prerequisite: SCD250

SCD253 Culinary Management

3 credits; 4 hours (3 hours lecture, 1 hour lab)

This course addresses the principles and practices of human resources management and supervision in the culinary industry. Topics include leadership, motivation, communication, planning, recruitment, hiring, training, performance evaluations, discipline, staffing, organization, conflict resolution, and ethics. Legal aspects governing the workplace are also addressed.

Prerequisite: SCD250

SCD266 Nutrition and Culinary Management Internship

3 credits; 31 hours (1 lecture, 30 internship)

This internship provides students with the opportunity to apply and integrate the knowledge, the principles learned in their coursework to the workplace. Students will participate in the daily operation of a nutrition and culinary management establishment with an emphasis on managerial and supervisory responsibilities. Students are required to attend a weekly seminar.

Pre-corequisite: SCD253

SCD270 Dietetic Seminar

1 credit; 1 hour

This course provides students with professional preparedness for a career in food and nutrition. Topics include health care policy, professional ethics, life long learning, professional credentialing and the dietetic technician registration exam.

Co-requisite: SCD253 for Dietetic Technician majors only

SCN240 Food and Culture*3 credits; 3 hours*

This course explores the foodways of population groups in the United States as an expression of identity and transmission of culture. The geographic, economic, religious and political factors that influence the development of regional food patterns in the United States are examined. The implications and impact of food production, preparation procedures, dining customs and their effect on American society, both past and present will be examined.

*Prerequisites: MAT096**Pre or Co-requisite: ENA/ENC/ENG101**This is a Writing Intensive course***Public and Community Health****SCH150 Drugs and Behavior***3 credits; 3 hours*

This course provides an overview of legal and illegal substances and their effects on society as well as individuals. Drug regulation and criminalization are examined in their historical contexts as well as the roles that psycho-active substances have played in various cultures throughout human history. A variety of methods are used to explore such issues as the psychosocial aspects of drug taking; the dynamics of dependence; pharmacology; medical and non-medical use of drugs; preventive measures and treatment.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096***SCH160 Health and Wellness***3 credits; 3 hours*

Personal health behavior is examined in the areas of cardiovascular health, stress, sex and sexuality, substance abuse, nutrition, and physical activity. Chronic and communicable diseases will also be examined. Students will analyze the role of health risk behaviors in the development of disease, injury and chronic illness.

*Prerequisites: CSE099, MAT095 or MAT099**Pre-corequisite: ENC/G101***SCH205 History and Principles of Public Health***3 credits; 3 hours*

This course is designed to introduce the history and enterprise of public health and strategies used in public health promotion and disease prevention initiatives. The course will provide students with an opportunity to learn about past, present and future key public health topics of importance, and to apply public health strategies to prevent or minimize these problems among culturally diverse populations across the lifespan.

*Prerequisites: ENG102, SCN195, SCN196;**Pre/corequisite: SCH160***SCH210 Human Sexuality***3 credits; 3 hours*

This course will provide students with an insight into historical, societal, and cultural influences on sexuality and individual behavior. The physical (sexual-reproductive anatomy/development, behavior), psychosocial (gender, sexual orientation, attitudes), and emotional (attraction, functioning) aspects of human sexuality are reviewed as well as ethical and legal issues. The positive functional aspects of sexuality are emphasized rather than the dysfunction.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096***SCH215 The Social and Behavioral Determinants of Health***3 credits; 3 hours*

This course introduces students to the various biological, psychological, socio-cultural, economic, environmental, institutional, organizational and political factors influencing health behavior and relevant disparities in health outcomes. Students are exposed to core theories and models used in the analysis of health behavior and outcomes from a systems perspective. Emphasis is placed on applying theories/models at various levels of influence to current health problems as a basis for intervention design.

*Prerequisites: SSY101, SCN195, SCN196;**Prelco-requisite: SCH160, SCH205***SCH225 Health Behavior Change***3 credits; 3 hours*

This course introduces students to techniques used to initiate and maintain change for health behaviors (e.g., healthy eating, physical activity, smoking cessation, stress reduction, substance abuse prevention and chronic disease maintenance). Stages of change theory, relapse prevention and motivational interviewing from a public health perspective will be explored in depth. Students will examine the application of theory to behavioral health within a specific population in a research paper.

*Prerequisites: SCH215***SCH235 Epidemiology***3 credits; 3 hours*

This course introduces the background, basic principles and methods of public health epidemiology. Particular emphasis is on applying epidemiologic methods to public health problems such as measures of disease frequency, study designs and bias, effect modification, outbreak investigations, screening, causality and ethical issues. Required assignments are focused on the interpretation and evaluation of health information from published epidemiologic studies.

Prerequisites: MAT115/117 or MAT119/120, SCH215

SCH285 Health and Diversity*3 credits; 3 hours*

This capstone course explores from a systems perspective traditionally underserved racial, ethnic, immigrant, and emerging groups with disparities based upon age, gender, sexual orientation, disability, physical and mental health, geography and environment. Cultural competency as a tool to reduce these health disparities will be examined. A required ePortfolio project focuses on health issues within a specific population and available culturally competent community programs and services.

Prerequisite: SCH215; Pre-corequisites: SCH225, SCH235

SCN194 HIV/AIDS, Science and Society*3 credits; 3 hours*

Through interdisciplinary perspectives this course will examine in historical contexts the political and social responses within nations and cultures to the global HIV/AIDS pandemic including comparison of local HIV prevention efforts and support for people with HIV/AIDS. The history of the epidemic in New York City focused on local HIV/AIDS activism and socio-political issues will be reviewed as will the impact on local socio-cultural communities (e.g., gay men, people of color, injection drug users). The course will also review the biological basis of HIV transmission, AIDS etiology and the interdisciplinary scientific basis of HIV prevention and treatment strategies (e.g., medical, psycho-social).

Prerequisite: ESA/ENC/G101, MAT096

This is a Writing Intensive course.

SCN195 Community Health*2 credits; 2 hours*

This course will examine the historical, philosophical, and theoretical principles and foundations of community health. Global perspectives on the role of health education in keeping people and communities healthy, as well as future trends in health promotion will be analyzed. NYC Department of Health initiatives and data, as well as NYC historical events in health are used to illustrate course concepts. This writing intensive course includes assignments based on required reading and activities in and outside of the classroom.

Prerequisites: MAT96, ENG101, SSY101

SCN196 Community Health Research*1 credit; 1 hour*

This course provides an overview of open sources of health data on New York City residents available for public use. Students will be introduced to the process of preparing and presenting research through development of an ePortfolio project focused on a specific health issue within their local community.

Corequisite: SCN195

This is a Writing Intensive course

Human Services**HSS101 Introduction to Human Services***3 credits; 3 hours*

This course provides students with a broad view of human services. A historical perspective of how human services developed in the US and internationally; the involvement of faith based groups; development of secular services; and crisis intervention services in response to natural disasters, war and poverty and hunger will be addressed.

Prerequisite: ENA/ENC/ENG101

Pre-or Corequisite: MAT096

HSS102 Social Welfare & Social Policy*3 credits; 3 hours*

This course introduces the foundations of applied social welfare policy analysis and intervention. The development of social welfare policy and programs in the United States will be examined within historical context utilizing multiple analytical frameworks (e.g., ideologies, theories, values, belief systems). The impact of social welfare policy on poverty, health care, child welfare, and changing population demographics will be reviewed for effectiveness.

Pre-or Corequisite: HSS101

HSS208 Human Services and Disabilities*3 credits; 3 hours*

Students will be introduced to the Human Services role with people with disabilities focusing on emotional growth, independence and a sense of mastery. Cognitive, developmental, mobility and other physical disabilities in addition to various rehabilitative counseling approaches will be explored using role play techniques.

Prerequisite: HSS101, HSS102. Both prerequisites must have been passed with a grade of C or higher.

HSS214 Social Gerontology*3 credits; 3 hours*

This course examines older adults as a diverse population group within American society through interdisciplinary perspective social gerontology (e.g., anthropology, biology, health, political science, psychology and sociology). Older adults as a socio-political group in the United States and the individual, familial, cultural and social aspects of aging and the aging process will be explored through the required readings and written assignments.

Prerequisite: HSS101, HSS102. Both prerequisites must have been passed with a grade of C or higher.

HSS216 Interviewing and Counseling*3 credits; 4 hours (2 classroom, 2 lab)*

This course will provide students with an in-depth look at approaches to individual counseling with an emphasis on practical knowledge and techniques for effective counseling practice in a multicultural society. Laboratory activities will focus on practice techniques of Motivational Interviewing.

Prerequisite: SCN195, SSY101. Both prerequisites must have been passed with a grade of C or higher.

HSS218 Group Interviewing & Counseling

3 credits; 4 hours (2 classroom, 2 lab)

This course will provide students with an in-depth look at multicultural group counseling with an emphasis on practical knowledge and techniques for effective group leadership. Students will explore theories of group dynamics and learn and practice skills for leading groups in a wide range of settings such as social work, mental health, substance abuse, and others. Lab activities focus on building skills for leading groups using Motivational Interviewing.

Prerequisite: HSS216, SSS100. Both prerequisites must have been passed with a grade of C or higher

HSS290 Health and Human Services Seminar and Internship

3 credits; 8 hours (2 classroom, 6 field hours per week)

Through experiential fieldwork and seminar, this course introduces students to the duties and responsibilities of professionals working within a health and human services setting. Students will be required to complete 72 hours of fieldwork. The seminar will focus on development of essential professional skills and ethical practices (e.g., communication, cultural competency), through classroom discussion and written activities in ePortfolio

Prerequisite: HSS216, SCN195

HSS295 Community Organizing and Development

3 credits; 3 hours

This course introduces community organization theory and practice in human services. The history and development of community organizing for social and human services are emphasized. Planning techniques of organizations in the profit, not-for-profit and governmental sectors and the processes affecting change in human service organizations are reviewed. This capstone course includes a studio hour focused on the development of an ePortfolio based on a community project.

Prerequisite: ENG102, HSS101, HSS102, HSS214, SSP101

Nursing**LICENSED PRACTICAL NURSING (LPN)****SCL101 Fundamentals of Practical Nursing**

5 credits; 9 hours lab (3 lecture, 6 lab)

This course will assist students in gaining knowledge of essential nursing and procedures. The students develop skills in collecting data, diagnosis recognition, assisting the planning and implementation of the care plan, performing procedures, handling equipment, and documenting client outcomes. Clinical experiences stress the development of fundamental nursing skills. Uniform, liability insurance, physical examinations and CPR (BCLS) are required.

Prerequisite: ENA/ENC/ENG101, MAT106, SCB204, SSS101

Pre- or Corequisite: SSS240, SCL102, SCL103

SCL102 The Science & Art of Nursing I: Introduction to Practical Nursing

3 credits; 5 hours (2 lecture, 3 lab)

A revision of the course to a hybrid format will enable greater flexibility in course scheduling, increased technical skills and would allow for students to be given the option for flexibility in classroom time, setting, and to offer an innovative health care education that is reflective with the use of technology.

Prerequisite: ENA/ENC/ENG101, MAT106, SCB204, SCL101, SCL103, SSS240

SCL103 Concepts in Pharmacology and Nutrition

3 credits; 5 hours (2 lecture, 3 lab)

This course will introduce principles of pharmacology and nutrition. The focus will be on the study of pharmacological classifications, actions, therapeutic uses, and side effects of medications. Methods of nutrition delivery and drug and diet interactions will be addressed. Emphasis will be placed on the nursing process as it relates to the nurse's responsibilities in the provision of nutritional therapeutics and the administration of medications to clients across the lifespan.

Prerequisite: ENA/ENC/ENG101, MAT106, SCB204, SSS101

Corequisite: SCL101, SCL102 - PN program

Corequisite: SCR210 - RN program

SCL105 Mental Health Nursing-PN

3 credits; 14 hours (4 lecture, 10 lab)

This course introduces the student to the mental health needs of individuals and families across the life span within a cultural context. The focus is on communication skills, mental health disorders and various treatment modalities. The changing professional, legal, and ethical issues of practical nursing in the mental health setting are also explored. The students will be given the opportunity to develop increased personal insights about their own view of self and the world.

Prerequisite: SCL101, SCL102, SCL103, SCL114

Corequisite: SCL119



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SCL114 Parent-Child Nursing-PN

6 credits; 26 hours (8 lecture, 18 lab)

This course emphasizes the scope of practice of the practical nurse providing care to pregnant clients and families during antipartum, intrapartum and postpartum period. Utilizing a lifecycle approach, students assess and care for neonates and pediatric hospitalized clients and families in a holistic manner. Physical, psychosocial, growth and development and cultural aspects are central components of care. Clinical experiences will be provided to enable the student to transfer theory into practice.

Prerequisite: SCL101, SCL102, SCL103, SSY240

SCL118 Science and Art of Nursing II - Transition Student to PN

2 credits; 4 hours (offered only in the 6-week session)

This course is designed to help students clarify responsibilities and roles as new graduates. Students will be guided and supervised to identify performance standards and behaviors necessary to function safely and effectively as graduate practical nurses. Students will be assisted to develop critical thinking strategies required for success on the NCLEX-PN examination.

Prerequisite: SCL114; Corequisite: SCL105, SCL119

SCL119 Medical-Surgical Nursing-PN

7 credits; 20 hours (4 lecture, 16 lab)

This course discusses common health problems and health alterations. The focus is on adult clients across the lifespan with an emphasis on the older adult with acute and chronic illnesses in a variety of health care settings. Nursing care within culturally sensitive environments will be emphasized. Students move through the course developing more advanced nursing care skills relating to medical-surgical conditions. Clinical experiences will take place in rehabilitation units and medical-surgical units.

Prerequisite: SCL114; Corequisite: SCL118

REGISTERED NURSING**SCR100 LPN to RN Bridge Course**

3 credits; 5 hours (2 classroom, 3 lab)

This course provides a “bridge” for LPNs pursuing an RN license. Course content will include medical surgical and pharmacological nursing concepts. The nursing process and informed decision making are emphasized. Students will develop appropriate plans of care and emphasis will be placed on formulating expected outcomes.

Prerequisite: SCB204, SCB260, SCC110, SSY240

Pre-or Corequisite: ENG102. CPR Certification: American Heart Association-BCLS-Healthcare Provider

SCR110 Fundamentals of Nursing

6 credits; 12 hours (3 lecture, 3 lab, 6 clinical)

This course is an introduction to the five interrelated roles of the associate degree nurse, with emphasis on the role of provider of care. Students focus on the assessment and analysis phases

of the nursing process to formulate nursing diagnoses. Campus laboratory experiences stress the development of fundamental nursing skills. Clinical experiences in health facilities involve care of clients with health problems. A uniform, liability insurance, and physical examination are required.

Prerequisite: CSE099, ENC/G101, ESL099, MAT096, SCB204, SCC110, SSY101

Pre-corequisite: MAT120

Corequisite: SCR150

SCR200 Psychiatric Mental Health Nursing

4 credits; 8 hours (2 classroom, 6 lab)

This course focuses on the psychosocial needs of clients through-out the life cycle. The assessment of clients’ physical and behavioral responses to stress will be explored as well as the determination of goals for intervention. Focusing on the use of self as a therapeutic agent, students will learn techniques of intervention to promote and maintain clients’ mental health, as well as assist clients who are mentally ill. Experiences will be provided in psychiatric/mental health settings.

Prerequisites: SCB260, SCR210

Pre-corequisite: ENG102

Corequisite: SCR270, CPR Certification: American Heart Association-BCLS-Healthcare Provider

SCR210 Medical Surgical Nursing I

5 credits; 9 hours (3 lecture, 3 lab, 3 clinical)

This course will focus on nursing care of adults with major health problems. Utilizing the nursing process, students will develop appropriate plans of care for clients. Emphasis will be placed on formulating goals for interventions. Heavy emphasis is placed on pharmacology.

Prerequisite: MAT119, SCB204, SCR110, SCR150, SSY240

Pre-Corequisite: SCB260

Corequisite: SCL103

SCR270 Parent-Child Health Nursing

4 credits; 8 hours (2 classroom, 6 lab)

This course focuses on the promotion of health and caring for childbearing families, their newborns, and children with major health problems from infancy to adolescence. Emphasis is placed on the implementation of nursing concept maps. Experiential learning offers opportunities to provide care during the antepartal, intrapartal, and postpartal periods of the maternity cycle, as well as in the newborn and pediatric settings.

Prerequisite: SCB260, SCR210

Pre- or Corequisite: ENG102, CPR Certification: American Heart Association-BCLS-Healthcare Provider

Corequisite: SCR200

SCR280 Leadership and Delegation

2 credits; 2 hours

This course assists the new graduate transition to the role of professional nurse, focusing on the necessary knowledge and skills needed by the graduate to be an integral member of the interprofessional healthcare team and manager of patient care. Issues related to setting priorities, delegation, quality

improvement, legal parameters of nursing practice and ethical issues will be discussed.

Prerequisite: SCR200, SCR270

Corequisite: SCR290, CPR Certification: American Heart Association-BCLS-Healthcare Provider Certification

SCR290 Medical Surgical Nursing II

9 credits; 19 hours (4 lecture, 3 lab, 12 clinical)

This course focuses on the care of adult clients whose ability to meet one or more health needs is severely compromised. Emphasis will be placed on the evaluation phase of the nursing process. Selected experiences will be provided in specialized acute care settings.

Prerequisite: SCR200, SCR270

Occupational Therapy

SCO101 Introduction to Occupational Therapy

3 credits; 7 hours (1 lecture, 6 lab)

This course provides an overview of occupational therapy, its scope of practice and basic principles, and introduces some of the roles of the occupational therapy assistant. Course activities include analysis and instruction of games and small crafts, development of communication skills, practice of body mechanics and ergonomics and field visits. The effects of environmental and cultural differences in shaping activity behaviors and preferences are emphasized.

Prerequisite: ENA/ENC/ENG101, SCB203, SCN195, SSY101, OTA000

Corequisite: SCO110

SCO110 Legal and Ethical Issues in Occupational Therapy

2 credits; 2 hours

This course addresses current legal and ethical considerations for the occupational therapy assistant. Topics range from history and philosophical base of occupational therapy to licensure and certification. Reimbursement issues, the occupational therapy code of ethics, ethical dispute resolution in professional settings, interdisciplinary roles with other professionals and advocacy for the profession and the consumer will be covered.

Prerequisite: OTA000

Corequisite: SCO101

SCO114 Documentation for Occupational Therapy

2 credits; 2 hours

This course provides students with background and skills to document occupational therapy services in a professional and accurate manner. The course will review ethical, legal, reimbursement and language issues, and will focus on skill development for note writing. Topics include: evaluation reports, goal writing, intervention plans, SOAP (subjective, objective, assessment plan) and DAP (data, assessment, plan) notes, discontinuation plans, educational plans and administrative reports.

Prerequisite: SCO110

Pre- or Corequisite: ENG102, SCO204, SCO214, SCO284

SCO175 Clinical Reasoning in Occupational Therapy

2 credits; 2 hours

Clinical reasoning is the process by which a therapist or therapy assistant analyzes the functional status of a patient/client/consumer, identifies problems and goals, and determines plans of action, as appropriate to each practitioner's level of responsibility. Aspects of clinical reasoning and evidence-based practice are explored through readings and experiential assignments. Types of reasoning explored include: narrative, scientific, procedural, interactive, conditional and pragmatic.

Prerequisite: SCO101, SCO110, SCO114, SCO204, ENG102

Pre- or Corequisite: SCO205, SCO215, SCO285

SCO200 Physical Aspects of Human Growth and Development

2 credits; 2 hours

This course presents an overview of human biological development as it affects functional performance from birth to pubescence. Specific topics include development of the sensory and motor systems, sensory integration, reflex integration, differentiation of joint motion, and the role of the endocrine system.

The importance of the human and non-human environment in facilitating and supporting optimal development is emphasized.

Prerequisite: SCB204, SCO101, SSY101, SCN195

Pre- or Corequisite: SCO230

SCO204 OT Process: Psychosocial and Geriatric Conditions

4 credits; 4 hours

This course presents occupational therapy theory and process skills for interventions with clients and consumers with psychosocial dysfunction and/or disorders associated with aging. Topics include: data collection, treatment planning and implementation, reassessment and termination, family involvement, the use of groups, and social policy issues.

A client-centered approach is emphasized, with special attention to personal history and preferences, culture, and environment.

Prerequisite: SCO101, SCO110, SCB204, SSY230

Pre-or Corequisite: SCO214;

Corequisite: SCO114, SCO284

SCO205 OT Process: Physical and Developmental Disabilities

4 credits; 4 hours

This presents occupational therapy theory base and process skills for evaluation and treatment of patients with physical and/or developmental disabilities. Topics include: data collection, problem solving, treatment planning and implementation, reassessment, family involvement, legal, ethical and regulatory issues. Identification of intervention for functional performance deficits is the primary emphasis.

Prerequisite: SCO101, SCO110, ENA/ENC/ENG101

Pre- or Corequisite: SCO175, SCO215, SCO285

SCO214 OT Skills and Functional Activities I*3 credits; 6 hours (2 lecture, 4 lab)*

This course provides a foundation for performing, analyzing and instructing functional activities used for persons with psychosocial dysfunction and/or disorders associated with aging. The student is exposed to the assessment, planning and intervention processes and the selection of activities. Program planning, group leadership and behaviors, cognitive skills interventions, program administration and management are included. Students learn woodworking hand tools and small power tools.

*Prerequisite: SCB204, SSY230, SCO101, SCO110**Pre- or Corequisite: ENG102***SCO215 OT Skills and Functional Activities II***3 credits; 6 hours (2 lecture, 4 lab)*

This course provides the student with experience in performing, analyzing, adapting and instructing activities used in the treatment of patients with physical and/or developmental disabilities.

Activities are organized around the childhood roles of player and learner, and the adult roles of student, worker, homemaker, parent, recreator and self-maintainer. Topics including: splinting, toys and play activities, adaptation of equipment and environment, positioning transfers and treatment modalities.

*Prerequisite: SCO101, SCO110, ENG102**Pre- or Corequisite: SCO175, SCO205, SCO285***SCO230 Functional Pathology***3 credits; 3 hours*

This course is a systems approach to the study of pathophysiology. Emphasis will be on the normal and abnormal response to disease and injury, and effects on body systems. Consideration will be given to selected disorders, with a survey of etiology, pathology, symptomatology, management and prognosis related to therapeutic principles, applications, and interventions. Knowledge of proper terminology and techniques of literature review will also be emphasized.

*Prerequisite: SCB204**Corequisite: SCO101 for OTA. SCT101 for PTA.***SCO284 OT Clerkship for Psychosocial/Geriatric Conditions***1 1/2 credits; 5 hours (1 lecture, 4 fieldwork)*

This is an introductory fieldwork experience in a supervised setting. The setting may be one which serves persons with psycho-social conditions or one which provides activity/recreation/leisure programming for the aged. The student spends a minimum of one half day per week or the equivalent at the fieldwork site. Attendance at a weekly seminar is required and provides opportunities for students to integrate classroom theory with fieldwork experiences.

*Prerequisite: SCB204, SSY230**Pre- or Corequisite: SSY260**Corequisite: SCO204***SCO285 OT Clerkship for Physical/Development Disabilities***1 1/2 credits; 5 hours (1 lecture, 4 fieldwork)*

Introductory fieldwork in a supervised setting. The setting may serve persons with physical disabilities or developmental disabilities. The student spends a minimum one half day per

week or the equivalent at the fieldwork site. A weekly seminar provides opportunities to integrate classroom theory with fieldwork experiences.

*Prerequisite: SCB204, SCO101, SCO200, SCO230**Corequisite: SCO205, SCO215***SCO294 OT Fieldwork in Psychosocial/Geriatric Conditions***2 credits; 38 hours (1 lecture, 37 fieldwork)*

This is a full-time placement in a supervised clinical or community setting serving persons with psychosocial or behavioral or cognitive impairments. Attendance at a weekly seminar is required. A minimum of eight weeks or the equivalent of full-time hours must be completed to satisfy requirements of the American Occupational Therapy Association. Students are responsible for their travel costs for fieldwork.

*Prerequisite: SCO204, SCO214, SCO284; permission of Occupational Therapy Assistant Program Director is required to register.***SCO295 OT Fieldwork: Physical/Development Disabilities***2 credits; 38 hours (1 lecture, 37 fieldwork)*

This is a full-time placement in a supervised clinical or community setting serving persons with physical or developmental disabilities. Attendance at a weekly seminar is required. A minimum of eight weeks or the equivalent of full-time hours must be completed to satisfy requirements of the American Occupational Therapy Association. Students are responsible for their travel costs for fieldwork.

Prerequisite: SCO205, SCO215, SCO285; permission of Occupational Therapy Assistant Program Director is required to register.

Paramedic

SCE100 Emergency Medical Technician-Basic*6 credits; 10 hours (4 lecture, 6 lab)*

This course provides an introduction into basic pre-hospital emergency care. Following the current National Standard Curriculum for the EMT-Basic, topics include Airway, Cardiac Arrest and CPR, Patient Assessment, Medical/Behavioral/Obstetrics/ Gynecology, Trauma, Infants/Children and Operations. Students are eligible for NYS certification upon successful completion of course. Students must satisfactorily perform all practical skills to successfully complete the course.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096***SCE110 Fundamentals of Paramedic I***6 credits, 18 hours*

This course introduces the most recent NYS paramedic curriculum and reflects the National Paramedic Standards. Topics include Orientation, Clinical Rotation Overview, Roles and Responsibilities, Public Health, Basic Math Review, Medication Administration, Vascular Access, Medical-Legal and Ethical Issues in EMS, Well Being of the Paramedic, Pharmacology,

Airway, Communication with Patients, and History Taking and Documentation. This class includes laboratory and clinical components.

Prerequisite: ENG102, HUP102, MAT115, SCB204, SCN194, SSY101 *Corequisite:* SCE111

SCE111 Fundamentals of Paramedic II

6 credits, 18 hours

This course introduces the most recent NYS paramedic curriculum and reflects the changes recommended in the National Paramedic Standards. Topics include Patient Assessment, Life Span Development, Critical Thinking and Clinical Decision Making, Techniques of Physical Exam, Assessment Based Management, Pediatrics, Respiratory Emergencies, Cardiovascular Emergencies, Electrophysiology, Pathophysiology and Management of Coronary Artery Disease (CAD) and Angina, and Sinus Based Electrocardiogram Rhythm Interpretation.

Corequisite: SCE110

SCE203 Intermediate Paramedic I

5 credits, 16 hours

This course introduces the most recent NYS paramedic curriculum and reflects the changes recommended in the National Paramedic Standards. Topics include ECG Review, Junctional Rhythms, Heart Blocks, Ventricular Rhythms, Management of Symptomatic Bradycardia and Tachycardias, Troubleshooting Pacemakers, Pulmonary and Cardiac Assessment and Management Scenarios, Defibrillation, 12-Lead ECG, Advanced Cardiac Life Support, and Cardiac and Neurologic Emergencies.

Prerequisite: SCE111

SCE204 Intermediate Paramedic II

6 credits, 18 hours

This course introduces the most recent NYS paramedic curriculum and reflects the changes recommended in the National Paramedic Standards. Topics include Diseases of the Eyes, Ears, Nose and Throat, Endocrine Emergencies, Immunologic Emergencies, Psychiatric Emergencies, Soft Tissue Trauma, Burns, Face and Neck Trauma, Head and Spine Trauma, Orthopedic Trauma, and Management and Resuscitation of the Critical Patient.

Prerequisite: SCE203

SCE205 Advanced Paramedic I

6 credits, 18 hours

This course introduces the most recent NYS paramedic curriculum and reflects the changes recommended in the National Paramedic Standards. Topics include Chest Trauma, Abdominal and Genitourinary Trauma, Environmental Trauma, Special Considerations in Trauma, Gynecology, Genitourinary and Renal Emergencies, Abdominal and Gastrointestinal Emergencies, Infectious Diseases, Toxicology, Obstetric Emergencies, and Neonatal Care.

Prerequisite: SCE204

SCE206 Advanced Paramedic II

5 hours, 16 hours

This course introduces the most recent NYS paramedic curriculum and reflects the changes recommended in the National Paramedic Standards. Topics include Pediatrics,

Hematology, Patients with Special Challenges, Advanced Cardiac Life Support and Pediatric Advanced Life Support, Pharmacology, Geriatrics, Ambulance Operations, Vehicle Extrication and Special Rescue, Phases of Rescue Operations, Incident Management and Multiple-Casualty Incidents, NYS Exam Preparation, NYC Protocol Exam Preparation.

Prerequisite: SCE205

Physical Therapy

SCT101 Introduction to Physical Therapy

2 credits; 2 hours

This course introduces the concepts and scope of physical therapy, its professional organization, and its relationship with other health professions. Subjects include: the role and function of health personnel, professional conduct, professional responsibilities, core values of a physical therapist and physical therapist assistant, medical terminology, communication skills for patients and clients, and physical therapy documentation. In addition, cultural diversity and health disparities within the health care profession are discussed.

Prerequisite: SCB204, ENG102, SSY240, HUP102, MAT120/119 or 115/117. *Corequisite:* SCT102, SCO230

SCT102 Ethical and Legal Concepts for PT

2 credits; 2 hours

This course introduces the topics of medical ethics and legal issues as applied to physical therapy practice. Students will have the opportunity to apply legal and ethical theories and concepts to analyze and discuss issues faced by healthcare practitioners. Ethical and legal standards set forth by the legal system in United States, the Standard of Practice of New York State, and the American Physical Therapy Association core ethics documents will be explored. Students will also become familiar with the various aspects of administrative, financial, quality improvement, and personnel management information as related to health care practice in the United States.

Prerequisite: SCB204, ENG102, SSY240, HUP102, MAT120/119 or 115/117. *Corequisite:* SCT101, SCO230

SCT203 Clinical Kinesiology

4 credits; 6 hours (2 lecture, 4 lab)

This course introduces students to the study of musculoskeletal system as the basis for movement and exercise. Topics include: principles of movement, body mechanics, muscle actions, nerve innervations, and types of joints and movements. Students will become familiar with measurement of joint range of motion and assessment of strength through manual muscle testing. Movement impairments as a result of orthopedic and neurological conditions in pediatric, adult, and geriatric populations will be introduced.

Prerequisite: SCT101, SCT102, SCO230

Corequisite: SCT220, SCT211

SCT211 Therapeutic Procedures I*4 credits; 6 hours (3 lecture, 3 lab)*

This course is designed to introduce and prepare physical therapist assistant students to provide physical therapy management in a variety of clinical settings and patient/client conditions. Students will learn to perform duties in a manner consistent with the American Physical Therapy Association's core documents including: Values Based Behaviors for the Physical Therapist Assistant; the Guide for Conduct of the Physical Therapist Assistant; Standards of Ethical Conduct for the Physical Therapist Assistant; and Minimal Required Skills of Physical Therapist Assistant Graduates at Entry-Level. Topics include general review of systems, recognition of precautions and warning signs associated with common pathologies, human tissue response to injury and repair, and the physiology of pain. Patient/client management in integumentary and cardiopulmonary care will be introduced.

*Prerequisite: SCT101, SCT102, SCO230**Corequisite: SCT203, SCT220***SCT212 Therapeutic Procedures II***3 credits; 5 hours (2 lecture, 3 lab)*

This course focuses on the principles and uses of biophysical agents utilizing thermal, mechanical, electrical, and electromagnetic energy as they relate to physical therapy. A review of human tissue response to injury and repair will be discussed. Course content will include: proper preparation and management of patients/clients treatment areas and equipment, application of radiant therapy agents, therapeutic ultrasound, shortwave diathermy, mechanical traction and compression, laser, ultraviolet, electrical stimulation and biofeedback.

*Prerequisites: SCT203, SCT211, SCT220**Corequisite: SCT221***SCT220 Mobility Skills in Physical Therapy***3 credits; 5 hours (2 lecture, 3 lab)*

Functional training such as bed and mat mobility skills, including body mechanics, wheelchair prescription and management, transfer skills will be introduced. Student will explore issues related to safety in negotiating architectural barriers as they affect the patient/client across the lifespan in the home, community, and work environment. Principles of therapeutic massage and various techniques for specific clinical applications are introduced.

*Prerequisite: SCT101, SCT102**Corequisite: SCT203, SCT211***SCT221 Functional Gait Training Skills***3 credits; 5 hours (2 lecture, 3 lab)*

This course reviews the principles of gait, locomotion, and balance activities in their application to various physical disabilities. The students will be introduced to the basic concepts of the normal gait cycle and gait deviations. Gait training, including measurement and training with the use of assistive devices and instruction on level and elevated surfaces, will be addressed. Basic concepts of orthotic and prosthetic descriptions, usage, and residual limb care will be introduced.

*Prerequisite: SCT203, SCT211, SCT220**Corequisite: SCT212***SCT230 Orthopedic Therapeutic Exercise***4 credits; 6 hours (3 lecture, 3 lab)*

This course provides the rationale for clinical application of therapeutic exercise training as it relates to orthopedic pathologies. A review of anatomy and the musculoskeletal system will be included. Students will become familiar with the theory and clinical concepts of exercise training as it relates to strength, power, and endurance. Specific protocols will include an orthopedic approach to exercise techniques and exercise planning for a variety of diagnoses. In addition, selected manual therapeutic techniques will be introduced. Students will perform evidence-based research to identify therapeutic protocols and apply appropriate exercise techniques.

*Prerequisite: SCT212, SCT221**Corequisite: SCT231, SCT290***SCT231 Neuromuscular Rehabilitation***4 credits; 6 hours (3 lecture, 3 lab)*

This Capstone course will integrate the student's prior learning and focus on holistically treating patients and clients with neuromuscular conditions. The course provides the rationale for assessment and intervention in accordance with the Physical Therapist's plan of care as it relates to neuromuscular rehabilitation. Students will also be introduced to the field of pediatric physical therapy including therapeutic play. An integrated, written evidence based practice project will be submitted at the end of the term. A studio hour enables students to complete their capstone Physical Therapist Assistant Student Professional ePortfolio.

*Prerequisite: SCT212, SCT221**Corequisite: SCT230, SCT290***SCT290 PTA Clinical Education & Seminar I***2 credits; 1 lecture, 8 lab*

This clinical learning experience provides students with an experience-based learning opportunity to: apply classroom learning to real work situations and practice, and strengthen interpersonal and technical skills. Students attend 80 hours at an off campus clinic and attend a concurrent bi-weekly seminar on campus that provides a framework for analyzing and evaluating students' clinical learning experiences. Topics will include Americans with Disabilities Act (ADA) guidelines, Health Insurance Portability and Accountability Act of 1996 (HIPAA) documentation and payment guidelines, and radiology and pharmacology implications on physical therapy practice. Legal and ethical standards for health care providers are reviewed and reinforced.

*Prerequisite: SCT221, SCT212**Corequisite: SCT230, SCT231***SCT291 PTA Clinical Education and Seminar II***3 credits; 1 lecture, 28 lab*

This clinical education experience course provides the student the opportunity to apply, integrate, and perform learned clinical skills in an off campus physical therapy clinical setting. Students will have the opportunity to apply critical thinking and problem solving skills under the supervision of a licensed physical therapist. In conjunction with this clinical education experience there are scheduled seminars where the student will continue to improve communication skills, critical thinking skills, gain an understanding of the professional role of the physical therapist

assistant in the healthcare system, and develop methods of enhancing and continuing their learning process.

Prerequisite: SCT230, SCT231, SCT290

SCT292 PTA Clinical Education and Seminar III

3 credits; 1 lecture, 28 lab

This course provides students with the continued opportunity to apply and integrate the theory and knowledge of a physical therapist assistant under the supervision of a physical therapist. The student is expected to assume increased responsibility for clinical and administrative tasks and is expected to be clinically at entry level at the completion of the course. The seminar portion is designed to prepare the student to take the National Physical Therapy Exam (NPTE).

Prerequisite: SCT291

Radiologic Technology

SCX101 Radiologic Technology I

3 credits; 3 hours

This course will provide students with an overview of the Radiology Profession, Patient Care, Medical Terminology and Medical Ethics. The concepts of ethics, medical asepsis, vital signs, and medical emergencies will be presented. The essentials of patient care to be covered including consideration for the physical and psychological needs of the patient and family and the practitioner's role in the health care system.

Prerequisite: ENC/G101, MAT115, SCB203, SSN187

Corequisite: SCB204, SCX105, SCX109, SCX110

SCX102 Radiologic Technology II

3 credits; 3 hours

This course is designed to impart an understanding of the components, principles and operations of digital imaging systems found in diagnostic radiology. Factors that impart image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance are presented.

Prerequisite: SCB204, SCX101, SCX105, SCX109, SCX110

Corequisite: SCX106, SCX111, SCX119

SCX105 Radiographic Procedures I

4 credits; 6 hours (3 lecture, 3 lab)

This course is designed to provide the knowledge and skills necessary to perform radiographic procedures. This is the first in a series of courses dealing with principle techniques, radiographic anatomy, radiographic procedures and related terminology in the production of images of the chest, abdomen, upper and lower extremities. The production of images of optimal diagnostic qualities is stressed. Laboratory experiences utilizing phantom apparatus are used to complement the classroom portion of the course.

Prerequisite: ENC/G101, MAT115, SCB203, SSN187

Corequisite: SCB204, SCX101, SCX109, SCX110

SCX106 Radiographic Positioning and Procedures II

4 credits; 6 hours (3 classroom, 3 lab)

This course is a continuation of Radiographic Procedures I, with reinforcement of the basic concepts presented in that course. Emphasis is placed on the pelvis girdle, vertebral column, thoracic cavity and cranium studies. The production of images of optimal diagnostic qualities is stressed. Laboratory experiences utilizing model apparatus allows students to apply the concepts acquired in the classroom environment.

Prerequisite: SCB204, SCX101, SCX105, SCX109, SCX110

Corequisite: SCX102, SCX111, SCX119

SCX109 Clinical Practicum I

2 credit; 29 hours (1 lecture, 28 lab)

This course is an introduction to the clinical environment. This is the first primary contact between students and patients. Students are assigned to various work areas in the Radiology Department to observe the operations of the entire department. While working under the close supervision of a licensed radiologic technologist, students will acquire required medical imaging skills, with an emphasis on the chest, abdomen and upper and lower extremity competencies.

Prerequisite: SCB204, SCX101, SCX105, SCX110,

SCX110 Principles of Radiographic Exposure I

3 credits; 3 hours

This course will provide students with the principles of electromagnetic radiation and its effects upon living tissue. The importance of radiation protection for patients and personnel will be the study of physics and electronic involvement in the production, use, and control of the various electromagnetic energies used in medical and diagnostic applications. This course heightens the student radiographer's awareness of the nature of ionizing radiation and its effect on all biological material.

Prerequisite: ENC/G101, MAT115, SCB203, SSN187

Corequisite: SCB204, SCX101, SCX105, SCX109

SCX111 Principles of Radiographic Exposure II

3 credits; 3 hours

The intent of this course is to establish a knowledge base of factors that govern and influence the production and recording of radiologic images. Film and electronic imaging with related accessories will be emphasized.

Prerequisite: SCB204, SCX101, SCX105, SCX109, SCX110

Corequisite: SCX102, SCX106, SCX119

SCX119 Clinical Practicum II

2 credits; 15 hours (1 lecture, 14 lab)

Students continue to improve their medical imaging skills while working at the assigned clinical affiliate under the guidance of a registered licensed radiologic technologist. Introduction to the principles of medical imaging of the lower extremities, pelvic girdle, and vertebral column are presented. This is the second of six clinicals.

Prerequisite: SCX109

SCX129 Clinical Practicum III*2 credits; 35 lab hours*

This course is a continuation of the clinical practicums to improve skills in all routine and contrast media imaging procedures. Students are encouraged to assume more responsibilities in the diagnostic imaging process. The didactic information previously presented in Radiographic Procedures I and II are coordinated with assigned rotations at the affiliated clinical sites. Critical thinking skills are enhanced. The weekly seminar will be on blackboard. This is a hybrid course.

*Prerequisite: SCX119***SCX201 Radiologic Technology III***3 credits; 3 hours*

This course provides students with an overview of Hospital Administration, including employment issues, labor contracts and litigation processes. Radiation biology and the principles of interaction of radiation with living tissues are discussed. Acute and chronic effects will be discussed. Quality Assurance involves the evaluation of radiographic images along with their delivery systems. State and federal guidelines are included. Equipment Quality Control and its testing are discussed.

*Corequisite: ENG102, SCX229, SCX240, SCX250***SCX205 Radiographic Procedures III***4 credits; 4 hours*

This course focuses on the more advanced positions utilized in the practice of medical imaging. Students are introduced to more advanced studies that involve the use of contrast media, pediatrics, trauma and mobile radiography. The basic concepts of pharmacology are also presented. The theory and practice of basic techniques of venipuncture are introduced. Practicum laboratory experiences complement the didactic portion of the course, allowing the students to demonstrate their ability on the phantom patient.

*Prerequisite: SCX129**Corequisite: SCX201, SCX209, SCX240, SCX250***SCX209 Clinical Practicum IV***2 credits; 15 hours (1 lecture, 14 lab)*

Continuation of the clinical practicum provides an opportunity for students to improve skills in the areas of general diagnostic procedures, contrast media procedures, advanced imaging procedures, and skull imaging at their assigned medical facility. This also serves as an introduction to specialty areas such as Computed Tomography (CT), Magnetic Resonance Imaging (MRI), special procedures, and angiographic procedures. This is the fourth in a series of six clinicals.

*Prerequisite: SCX129**Corequisite: SCX205, SCX245, SCX260, permission of the Program Director***SCX219 Clinical Practicum V***2 credits; 29 hours (1 lecture, 28 lab)*

A continuation of the student's clinical experience. Students will complete all initial and continuous clinical competency evaluations and objectives. All initial and continual competency evaluations are to be completed prior to beginning the final competency evaluations to be completed during the final clinical rotation.

*Prerequisite: SCX205, SCX209, SCX245, SCX260**Corequisite: Permission of the Radiologic Technology Program Director***SCX229 Clinical Practicum VI***2 credits; 15 hours (1 lecture, 14 lab)*

This final clinical experience provides the student with the opportunity to exercise independent judgment and discretion in the technical performance of medical imaging procedures. Students must complete terminal competency evaluations in ten required categories. Competencies are to be completed on patients when possible. Simulated competencies will be done as a last resort.

*Prerequisite: SCX219**Corequisite: ENG102, SCX210, SCX240, SCX250,**Permission of the Radiologic Technology Program Director***SCX240 Cross Sectional Anatomy***1 credits; 1 hours*

This course will provide students with the knowledge to identify the anatomical structures of the human body in various axial planes. Instructional aids will include radiographs, CT images, MRI images and anatomical models. In each section of the course, correlations will be drawn among radiographs, CT images, and MRI images.

*Corequisite: ENG102, SCX201, SCX205, SCX229, SCX250***SCX245 Pathology and Fracture Radiography***2 credits; 2 hours*

This course is designed to discuss the biological, physical, chemical, and anatomical changes that occur in different disease processes. Also addresses the etiology and pathogenesis of disease states and the physiological changes that accompany altered body states.

*Prerequisite: SCB204**Corequisite: SCX205, SCX209, SCX260***SCX250 Imaging Modalities***3 credits; 3 hours*

This course is designed to establish a knowledge base in radiologic, fluoroscopic and tomographic equipment requirements and design. The content will also provide a basic knowledge of quality control. Exposure to a variety of more advanced and complex diagnostic procedures and modalities are incorporated. Various recording media and techniques are discussed.

*Prerequisite: SCX219**Corequisite: ENG102, SCX201, SCX229, SCX240*

SCX260 Film Evaluation and Critique*2 credits; 2 hours*

This course enables students to evaluate and critique diagnostic radiographic images and to improve the radiographic quality by understanding radiographic imperfections. Through these evaluations, students will be able to limit their retakes, improve the patient quality of care, and improve the radiographic quality of their films. Student projects, associated film presentations and critiques are also included.

*Prerequisite: SCX219**Corequisite: SCX205, SCX209, SCX245***Therapeutic Recreation****HTR100 Introduction to Recreation and Leisure***3 credits; 3 hours*

This course examines the definitions of leisure, recreation and play. It provides an overview of the historical and theoretical development of leisure, recreation and play from ancient civilization to modern/contemporary society. The course will explore sociocultural implications of recreation and leisure, the current trends and the relationship between the leisure service field, programs, agencies, organizations, career and professional opportunities.

*Prerequisite: ENA/ENC/ENG101, MAT096***HTR101 Introduction to Therapeutic Recreation***3 credits; 3 hours*

This course is a general orientation to Therapeutic Recreation (TR) and its role in serving the needs of individuals with disabilities. Physical, social and psychological barriers to access, inclusion and normalization will be discussed. The course provides an overview of the TR process, techniques and treatments used to address the physical, mental, social and emotional well being of clients. Students will learn how to adapt recreation programs based on the needs, abilities and interests of clients.

*Prerequisite: HTR100**Pre-or Corequisite: SCB203, SCN195***HTR102 Professional Issues in Therapeutic Recreation***3 credits; 3 hours*

This course will provide an overview of the history of the Therapeutic Recreation (TR) profession, the development of the standards of practice, legal, ethical, professional duties and requirements of the TR professional. Accreditation standards, certification and licensure for the TR profession will be discussed. TR values and principles that establish the ideals and beliefs of the profession are identified. TR models that offer theoretical bases for practice will be explored.

*Prerequisite: HTR101**Pre-or Corequisite: SCB204, SSY230***HTR200 Therapeutic Recreation in Long Term Care***3 credits; 3 hours*

This capstone course will provide an overview of the principles and practices of therapeutic recreation services in long term care settings to the elderly, with emphasis on the role of the therapeutic recreation professional in client assessments. The design of appropriate interventions to address the social, emotional, physical and healthcare needs of the elderly and improve quality of life will be explored. Application of recreation interventions will be performed through role-playing assignments.

*Prerequisite: ENG102, HTR102**Pre-or Corequisite: SSY241**This is a Writing Intensive class***HTR201 Therapeutic Recreation Fieldwork***2 credits; 7 hours (1 lecture, 6 fieldwork hours)*

This course introduces students to the duties and responsibilities of a Therapeutic Recreation Assistant within a Long Term Care/ Rehab facility under the onsite supervision of the facility's Therapeutic Recreation Director and the fieldwork instructor. Students, through observation and no direct patient care, will learn to observe a variety of ways to engage patients in activities. The therapeutic value of interventions and the assessment of activity preferences, interests and abilities will be explored.

*Prerequisite: ENG102, HTR102**Pre-or Corequisite: HTR200, SSY241*

ALVARO CORZO / LAGUARDIA COMMUNITY COLLEGE

Veterinary Technology

SCV101 Introduction to Veterinary Technology

3 credits; 3 hours

This course offers a comprehensive introduction to veterinary medical terminology and the field of veterinary technology. Subjects covered within the course include breed identification, animal husbandry and care, basic anatomy, nutrition and feeding, genetics, and behavior of domestic animals.

Prerequisite: CSE 099, ENA/ENG 099, MAT 096

SCV150 Principles of Animal Control

2 credits; 2 hours

This course is designed to prepare students to work in animal care and control programs in municipalities and other government agencies. It will cover the philosophy and history of such programs, as well as the federal, state and local regulations that govern their use. Students will study the design and operation of animal shelters including the procedures by which animals are apprehended, cared for and euthanized.

Prerequisite: ENA/ENC/ENG101, MAT106, SCV101

SCV151 Shelter Medicine and Management

2 credits; 2 lectures

This course is designed to prepare students to work as veterinary technicians in municipal animal shelters along with associated government agencies. The philosophy and history of such programs, as well as the federal, state and local regulations that govern their operation will be discussed. Students will investigate facets of shelter operation and management including shelter design, sanitation and field services. Animal behavior, animal husbandry, vaccination, infectious and zoonotic disease, spay-neuter and euthanasia protocols will also be highlighted.

Prerequisites: SCV101, ENG/ENA/ENC101

SCV201 Research Animal Technology

4 credits; 6 hours (3 lecture, 3 lab)

This course prepares students to work with rodents, rabbits, and other animals used in research. Laboratory sessions provide hands-on training in restraint, drug administration, sample collection, anesthesia and research techniques. Classroom periods will cover husbandry, diseases, and sanitation, as well as the principles and ethics of animal research. Students will participate in the operation of the College's animal facility.

Prerequisite: ENA/ENC/ENG101, MAT106, SCC110, SCV101

SCV210 Veterinary Nursing I

4 credits; 6 hours (3 lecture, 3 lab)

This course introduces students to the technical procedures of veterinary practice. The major modules to be covered in lecture sessions are small animal anesthesiology, veterinary nursing and surgical nursing. In the laboratory students will learn basic companion animal handling techniques, perform physical exams, perform diagnostic blood collection and practice canine and feline anesthesia. Students will also prepare patients for aseptic surgery, perform surgical assisting, and learn the principles of cardiopulmonary resuscitation. The course focuses on canine and feline species.

Prerequisite: SCV201, SCV231

SCV211 Veterinary Nursing II

4 credits; 6 hours (3 lecture, 3 lab)

This course reinforces principles of small animal handling, restraint, husbandry, anesthesia and surgical nursing learned in Veterinary Nursing I (SCV 210). Students will use this foundation to practice more advanced skills including advanced anesthetic monitoring, jugular venipuncture and catheterization, urinary catheterization, fluid calculation and administration, veterinary dentistry and bandaging techniques. Students learn theory related to these topics during lecture sessions and demonstrate these skills during laboratory sessions.

Prerequisite: SCV 210

SCV212 Veterinary Radiography

3 credits; 5 hours (2 lecture, 3 lab)

Explore the theory and principles of radiography. The laboratory will provide students with training in the operation and maintenance of the x-ray machine, automatic and manual film processing, animal restraining and positioning, health and safety pre-cautions and radiograph evaluation and storage as they relate to veterinary medicine.

Prerequisite: ENA/ENC/ENG101, MAT106, SCB209, SCV201

SCV213 Veterinary Laboratory Techniques

3 credits; 5 hours (2 lecture, 3 lab)

This course deals with the examination of blood, urine, and other body substances for diagnostic and prognostic purposes in veterinary practice. Students will learn to perform complete blood counts, blood chemistries, serological tests and urinalysis. Lecture periods will cover the theories on which the tests are based and the relevance of laboratory results in the evaluation of the health of animals.

Prerequisite: ENA/ENC/ENG101, MAT106, SCB209, SCV201

SCV214 Farm Animal Nursing

3 credits; 5 hours (2 lecture, 3 lab)

In this course, students will study the application of animal health technology to farm animals. Class sessions will cover diseases, government health regulations and programs, emergency care, orphan animal care and relevant farm management procedures. Using various species of animals and types of equipment, students will learn techniques for restraint, administration of medication, sample collection, bandaging, surgical preparation and assistance and positioning for radiology.

Prerequisite: SCV201; *This course will be taught off-campus.*

Students must pay their own travel and room & board expenses.

SCV220 Principles of Exotic Animal Medical Care

2 credits; 2 hours

This course introduces the student to the comparative anatomy, physiology, and medical care of exotic animals. Anesthesia, blood collection, radiography laboratory testing and treatment methods of birds, reptiles, amphibians, fish, marine mammals, hoofstock, primates, small mammals and carnivores will be discussed as they apply to the work of veterinary technicians in private practice, zoos, aquariums, wildlife rehabilitation and research.

Prerequisite: ENA/ENC/ENG101, MAT106, SCC110, SCV201

SCV231 Part-Time Research Internship*2 credits; 1 classroom hour, 22 clinical hours*

This internship provides students with an experience based learning opportunity to explore or confirm career interests and plans. The students will apply classroom learning to real work situations and strengthen interpersonal and technical skills. The internship is accompanied by a concurrent seminar which provides a framework for analyzing and evaluating students' internship experience.

*Prerequisite: SCV211, SCV212, SCV213***SCV234 Full-Time Clinical Internship***2 credits (1 lecture, 21 fieldwork hours)*

This veterinary technology internship (250h) provides students with an experience-based learning opportunity in a small animal veterinary practice setting. The internship aims to apply classroom learning to real-work situations and strengthen professional and technical skills. This internship is accompanied by a concurrent seminar that provides a framework for evaluating and analyzing the student's internship experience and the profession.

*Prerequisite: SCV 211***SCV247 Veterinary Pathophysiology***2 credits; 2 hours*

This course is designed to integrate information from veterinary anatomy, physiology, histology and pathology. The purpose is to relate the normal physiology of the animal to the consequences of abnormal physiology, and discuss what effect this would have on tissues and organs in the body. The main focus will be on companion animals, but other domestic and exotic animals will be discussed.

*Prerequisite: ENA/ENC/ENG101, MAT106, SCB209, SCV201***SCV262 Veterinary Pharmacology and Toxicology***3 credits; 3 hours*

This course provides an overview of the main concepts of veterinary pharmacology and toxicology as they relate to clinical practice. The course discusses general concepts of pharmacodynamics and pharmacokinetics expanding into the major categories of veterinary drugs and common toxins in domestic species. The specifics of commonly used veterinary therapeutics will be reviewed in detail.

Prerequisite: SCV 210

Humanities Department

Room C745 (718) 482-5690

The Humanities encompass the range of human experience-who we are and what our lives mean. The Humanities Department offers courses in the following discipline areas: performing arts, philosophy and critical thinking, speech communication and visual arts. The department also offers a variety of Urban Study courses. Degree programs in Fine Arts, Commercial Photography and Music Recording Technology are housed in the Humanities Department.

Department Faculty

Payal Doctor, Chairperson; Leslie Aarons, Vera Albrecht, Alberta Arnold, Nancy Bandiera, Jessica Boehman, Mark Brooks, Richard Brown, Robert Bruno, John Cantwell, Cheri Carr, John Chaffee, Andy Kai-Chun Chuang, Jeremy Couillard, Dennis D'Amelio, Thomas Dempsey, Lisa DeSpain, Sandra Dickinson, Maureen Drennan, Dahlia Elsayed, Helmut Eppich, Arianne Fernandez, Hugo Fernandez, William Fulton, Rondee Gaines, Susan Gizzi, Thierry Gourjon, Erika Heppner, Sumanth Inukonda, Rachel Kerr, Doreen Kolomechuk, Javier Larenas, Robin Levenson, Louis Lucca, Fern Luskin, Gustavo Moretto, Andrew McFarland, Emmanuel Nartey, Garret Neergaard, Arthur O'Keefe, Sean Palmer, Anthony Palomba, Shannon Proctor, Sarada Rauch, Joyce Rheuban, Jaime Riccio, James Richardson, Ari Richter, Michael Rodriguez, Joan Schwartz, Stefania Sertich, Thomas Seymour, Arthur Simms, Poppy Marie Slocum, Patricia Sokolski, Scott Sternbach, Dana Trusso, Liena Vayzman, Gary Vollo, Shaunee Wallace, Francine White

Communication Studies

HUC101 Fundamentals of Communication*3 credits; 5 hours (4 classroom, 1 lab)*

This is a survey course that covers a broad understanding of the field of Communication Studies. Students will learn basic principles of communication: listening, verbal/nonverbal and group dynamics in interpersonal, group, public, and intercultural contexts. The First Year Seminar component of this course will help students transition to campus culture, develop a better understanding of learning processes and acquire the skills essential to the study and practice in a professional capacity.

*Prerequisite: CSE099, ENA/ENG/ESA099***HUC102 Principles of Communication, Non-Native Speakers***3 credits; 4 hours*

This course introduces non-native speakers to the basic principles of communication, such as concepts of interpersonal communication, small group communication, and public speaking, in a variety of cultural contexts. In addition, students will learn the principles of articulation, phonetics, and introductory sociolinguistics.

Prerequisite: CSE099; ESL099

HUC104 Voice and Diction*3 credits; 4 hours (3 lecture, 1 lab)*

This course is designed for students who wish to improve their speaking skills. Course content will include the basic theory of the production of speech and voice, study of the speech and hearing mechanism and a survey of the sound system of American Standard English. Students will participate in an analysis of their speaking skills and use drills and varied group activities to modify their voice and articulation patterns.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC106 Public Speaking*3 credits; 3 hours*

This course is designed to provide the student with a critical understanding of, and increased skill in, formal public speaking. In addition to examining oral rhetorical theory, students learn and practice skills in topic selection, research, organization, delivery, and criticism of speeches.

Prerequisite: CSE099, ENA/ENG/ESA099

HUC108 Communication in a Professional Setting*3 credits; 3 hours*

This course will develop students' knowledge of oral communication principles and theories in professional settings. Topics will include types of organizational communication, obstacles to effective communication, effective leadership behavior, and nonverbal communication. Students will learn about assertive behavior, conflict resolution, effective listening skills and persuasive presentations.

Prerequisite: CSE099

Pre- or Corequisite: ENA/ENG099, ESA099, ENA/ENC101

HUC109 Argumentation and Debate*3 credits; 3 hours*

This course builds on the basic oral skills developed in Public Speaking (HUC106) and is designed to provide the student with the rhetorical and analytical skills necessary for persuasive argumentation and debate. Students will be introduced to different styles of debate. The student will also learn to prepare a debate brief and to use flow sheets to structure refutation and rebuttal. The role of argumentation and debate in a democratic society will also be explored.

Prerequisite: ENA/ENC/ENG101, HUC101, HUC106

HUC111 Interpersonal Communication*3 credits; 3 hours*

This course will introduce students to the processes and principles of interpersonal communication in the context of developing relationships. Students will examine how the characteristics of each individual (e.g., gender, age, power, culture) and the characteristics of the environment where the relationship develops can affect the way we communicate. The various communication patterns used in relationship formation and relationship disengagement will also be explored.

Prerequisite: HUC101, HUC106

HUC112 Small Group Communication*3 credits; 3 hours*

This course is designed to familiarize students with fundamental principles of small group communication practices in various group settings. Topics include: group development, leadership, decision making and problem solving processes, conflict management and technology and virtual groups. The purpose of this course is to help students enhance their small group communication effectiveness in both interpersonal groups and task-oriented teams.

Prerequisite: HUC101, HUC106

HUC113 Oral Interpretation*3 credits; 3 hours*

This course introduces students to oral performance through verbal and nonverbal interpretation of literature. The focus of this course is to provide students with performance techniques and analytical tools to explore the communicative, aesthetic, and performance elements in prose, poetry, and dramatic literature by means of creative oral presentations. Topics will include: voice development, use of body movement and interpretation and analysis of literature.

Prerequisite: HUC101, HUC106

HUC114/ELL114 Normal Language Development*3 credits; 3 hours*

This course provides a comprehensive overview of normal language acquisition and development. It explores historical and current language theories, research findings and basic stages of typically developing language users. Related topics include an exploration of second language acquisition and atypical language development in people with specific language impairment.

Prerequisite: CSE099, ENA/ENG/ESA099/ENC101, ELL101 or ELL114; Pre- or Corequisite: HUC106 or HUC114

HUC115 Phonetics*3 credits; 3 hours*

This course is an introduction to the speech sound system of American English, or, the system of English phonemes. Students will learn how to categorize phonemes according to the International Phonetic Alphabet (IPA). Students will practice listening to speech and transcribing it phonetically. Students will be introduced to the acoustic features of sound that are important to speech production. They will be introduced to syllable structure and suprasegmental features that contribute to communication.

Prerequisite: CSE099, ENA/ENG/ESA099/ENC101, HUC106

HUC116 Survey of Speech, Language, and Hearing Disorders*3 credits; 3 hours*

This course will survey the more commonly known speech, language, and hearing disorders that affect children. It is designed to help classroom teachers recognize these disorders, to make appropriate referrals for intervention, and to promote the ability of those with communication disorders to achieve their maximum communicative potential.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC117 Communication and Technology*3 credits; 3 hours*

This course is an introduction to the various social, political, cultural, and economic impacts of new communication technologies on human communication. The course explores how communication technologies allow us to build, maintain, or terminate communities and relationships in our everyday lives. Students will use communication technologies to participate in class discussions and to present original research about the impact of communication technology on human communication.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC118 Gender and Communication*3 credits; 3 hours*

This class focuses on how ideas about sex and gender and our identities as men, women, and sexual beings are influenced by and contested in communication, from interpersonal relationships to mass media, from political campaigns to social movements; how the concepts of sex, gender, and sexuality affect and are affected by human communication; and how these concepts have been defined and applied with respect to various social issues, both domestically and internationally.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC119 Non-Verbal Communication*3 credits; 3 hours*

This course introduces students to basic concepts and theories of non-verbal communication. Topics include haptics, proxemics and chronemics with an introduction to quantitative/qualitative research methods. Students learn to identify and analyze communication patterns and their effects on the verbal content of interaction. Students develop skills and awareness of how non-verbal communication impacts their lives and are exposed to research in the field while engaging in an undergraduate research project.

Prerequisite: CSE099, ENA/ENG099, ESA099

HUC120 Mass Media and Their Evolution*3 credits; 3 hours*

This course traces the historical development of such mass media as radio, television, newspapers, recordings and film, and examines the functions and limitations of each medium. Special attention is given both to the role of mass communication in reflecting and projecting society, and to the form and functions of mass media systems of the future.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC127 Sports Communication*3 credits; 3 hours*

This course offers a survey of the basics of sports media and reporting from a broadcaster's perspective. Students will do theoretical overview of the fundamentals of broadcast media. Students will get hands-on experience in production with podcasts. Topics to be covered include fundamentals of interviewing, writing, play by play, and anchoring, as well as the role of women and minorities in sports media.

Prerequisite: CSE099, ENG/ENA/ESA099

HUC130 Mass Communication and Society*3 credits; 3 hours*

This course critically analyzes selected issues in mass communication. Possible topics include: media violence and pornography; media stereotyping; comics and political cartoons; hidden persuaders; editorial policies; media bias; censorship; press freedom and responsibility. Students projects may vary each term.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101; HUC120 recommended but not required.

HUC136 Persuasion*3 credits; 3 hours*

This course examines how beliefs, values, attitudes and behavior are deliberately influenced through communication, using both scientific and rhetorical theories to explore what persuasion is and how it works. The course also explores what role we play in constructing and deciphering persuasive messages. Through reading, writing, analyses, and practical application, students will engage the process of persuasion in areas such as media, interpersonal interactions, political public address, and social movements.

Prerequisite: ENA/ENC/ENG101, HUC101, HUC106

HUC140 Introduction to Broadcasting*3 credits; 3 hours*

This course will provide students with an introduction to the history of Radio and TV, with an emphasis on major facets of electronic media, including networks, legal aspects and government regulations, cable and satellite ratings and programming. Guest lecturers and field trips as well as hands-on work at the College Radio Station will enhance the experience.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC141 Public Relations*3 credits; 3 hours*

This course will familiarize students with a basic understanding of the dynamic field of public relations. Students will examine the history, theory, ethics, planning, evaluation, analysis and global trends of public relations.

Prerequisite: HUC101, HUC106

HUC142 Public Relations Writing*3 credits; 3 hours*

This course examines public relations and teaches skills necessary to design, implement and manage public relations campaigns from a written-communications perspective. There is an emphasis on decision-making procedures and the application of clearly written and appropriately targeted communications to PR-related business and civic issues. The primary objective is to generate a holistic understanding of what public relations writing is and how the field can evolve or change into different modalities.

Prerequisite: HUC141

HUC143 Public Relations Campaign*3 credits; 3 hours*

This course examines public relations and teaches skills necessary to create, implement and manage public relations campaigns. There is an emphasis on research, strategy, writing and analysis of public relations campaigns. The main objective is to generate a comprehensive understanding of how to design a professional public relations campaign from its inception to the analysis of the completed campaign.

*Prerequisite: HUC141***HUC151 Organizational Communication***3 credits; 4 hours*

This course offers an overview of organizational communication. It provides a survey of communication-based perspectives on organizational topics such as structure, rationality, management, culture, identity, networks, systems, power, leadership, branding, and globalization. Organizational communication is a discipline embracing a wide range of perspectives, and this course offers an important window of understanding communication perspectives in the dominant forms of contemporary social life – the organization.

*Prerequisite: HUC101, HUC106***HUC192 Health Communication***3 credits; 3 hours*

This course provides an overview of health communication. Topics include how health communication is used at the individual, group and community levels to promote consumption of goods and services. The impact of communication on health outcomes will be reviewed in addition to include theory and research on the role of communication in health literacy and behavior, and communication among diverse populations.

*Prerequisite: MAT096**Pre-or Corequisite: ENA/ENC/ENG101***HUC204 Race and Communication***3 credits; 3 hours*

This course examines the role of communication in several settings (interpersonal, intercultural, professional and non-verbal) and the media in the construction of race in society. It also analyzes race, gender and socioeconomic issues related to media representations, media ownership and media workforce.

*Prerequisite: CSE099, ENA/ENG099, ESA099***HUC220 Experiential Learning in Communication Studies***3 credits; 3 hours*

This course will provide students with an experience-based learning opportunity. In collaboration with and under the direction of a Communication Studies faculty member, students will use their content-based knowledge and skills from the program to design and complete a major scholarly project with the intent to present, exhibit, publish, or otherwise make the outcome available.

*Prerequisite: ENA/ENC/ENG101, HUC111***HUC230 Communication Theory***3 credits; 3 hours*

This course is an advanced level course in the history, practical application, and critique of various theories that explain the nature and dynamics of communication phenomena. Theories from interpersonal, group/organizational, rhetorical, mass and cultural communication will be explored. Students will gain an understanding of key theories, experience in reading research journals and practical application of theory to communication phenomena.

*Prerequisite: ENA/ENC/ENG101, HUC101, HUC106***Music Recording Technology****MRF101 First Year Seminar for Music Recording Technology***2 credits; 3 hours (2 lecture, 1 lab)*

This seminar is required of all new students in the Music Recording Technology program. It aims to help students transition to campus culture, develop an understanding of the learning process, and acquire skills and dispositions essential to an informed study of the discipline. Taught by Humanities faculty and supported by a cohort of peers, advisors and co-curricular professionals, this course addresses issues of contemporary college life.

HUX101 Audio Electronics*3 credits; 9.5 hours*

This introductory course lays the groundwork for audio and computer technology. Students learn the fundamentals of AC- and DC-powered audio and computer equipment, signal routing, patching, and equipment interfacing. Lab work focuses on basic skills of audio technician. Through projects, students learn proper wiring and soldering techniques.

HUX102 Basics of Digital Audio*3 credits; 3 hours*

This course will enhance students' knowledge of digital audio. Algorithms for multiple files such as .WAV, .MP3, .AIFF, and .OMF will be examined to understand the differences between them, both in quality and function. The behavior of audio in the digital world is the main focus, with students being taught the benefits and limitations of using a digital system. Metadata and file storage will also be addressed.

*Prerequisites: MAT096/MAT099/MAT117/MAT119; HUM146***HUX103 Ear Training and Acoustics***3 credits; 3 hours*

Students learn about sound generation, human hearing and perception, the physical principles of musical instruments, acoustics, and acoustical phenomena. Sound envelope parts are defined. Fundamentals are applied to room acoustics typical of a project studio environment. Studio construction methods and practices are discussed. This class emphasizes critical listening skills, a fundamental tool of the audio engineer and music

producer. Topics include the physiology of the ear, studio design, and psychoacoustics.

Prerequisite: HUM146

HUX104 The Business of Music

3 credits; 3 hours

This course is intended to give the student a core understanding of the music business, including music ownership, licensing, marketing, performance, and artist management. The student will gain a basic understanding of business practices and language, and how they apply to the new digital-era music business models. In-depth marketing plan, artist management and music label contracts will prepare students to realize their creative goals.

Prerequisite: HUM146

HUX105 Audio Processing and Storage

3 credits; 11 hours

This course introduces students to the tools engineers and producers use to shape and store sound. Topics include gain structure, compression, expansion, equalization, delay, reverb, mixing console operations, analog and digital tape machine operations and alignment techniques. In the hands-on lab, students operate audio processors and learn the parameters of each device. Working with the audio patchbay, students learn proper equipment interfacing technique using analog and digital equipment.

Prerequisite: HUX101, HUX102, HUX103

HUX106 Digital Music Production

3 credits; 3 hours

This course details the creation of electronic music through Musical Instruments Digital Interface. Students will create their own arrangements, entirely using MIDI data and virtual instruments. This course trains students in the computer-based composition and production techniques that are prevalent throughout the music and audio industry today. This technology is used for song writing, track production, sound for motion pictures, internet audio and club remixing. Students will learn the necessary tools and techniques to create contemporary electronic music.

Prerequisite: HUM146

HUX107 Analog Equipment and Microphones

3 credits; 3 hours

Students will learn about the inner workings and circuitry of analog processors and consoles, including tubes and transistors, signal routing and flow, as well as the use of patch bays and busses. Students will be exposed to various types of microphones found in real world recording studios.

Prerequisite: HUM146

HUX108 Mixing Music I

3 credits; 3 hours

The objective of the course is to further expand the mixing skills of students who already have basic mixing skills. Using lectures and hands-on training, this course establishes a solid foundation by teaching the scientific principles and concepts of mixing

audio. Students will master the operation of signal processors such as reverbs, harmonizers, compressors, limiters, equalizers and gates. Student's critical listening will also be developed.

Prerequisites: MAT096/MAT099/MAT117/MAT119; HUM146

HUX110 Recording Workshop

3 credits; 3 hours

Students will learn how to effectively record audio in a professional studio environment. Proper techniques such as microphone placement, microphone positioning, gain staging, sound isolation, signal-processing, and more will be observed and learned. This program establishes a solid foundation by teaching the scientific principles and concepts associated with sound and audio recording, and then applying these principles with hands-on activities in our state-of-the-art recording studio.

Pre or corequisite MAT096/MAT099/MAT117/MAT119; HUM146

HUX111 Mixing Music 2

3 credits; 9.5 hours

This class focuses on techniques of mixing in the digital environment. Issues of analog mixing are re-examined in the digital realm. Topics include gain structure through a signal path from input to stereo mix bus, direct signal path design, virtual patchbays, plug-ins effects, issues related to A-D/D-A conversions and metering. Working at digital audio workstations, students complete complex digital mixes and burn them to CD.

Prerequisite: HUX107, HUX108, HUX109

HUX112 Post Production Audio

3 credits; 3 hours

This course aims to provide students with a thorough understanding of working on sound for film and television. Aspects such as dialogue replacement, Foley techniques, sound design, mixing in surround and other relevant topics will be covered. Students will also have the opportunity to use a sound library to create a movie clip.

Prerequisites: MAT096/MAT099/MAT117/ MAT119; HUM146

HUX114 Audio Career Applications

3 credits; 3 hours

This course introduces students to the many possibilities of employment within the field of audio engineering and the numerous careers available to them after graduation. Topics such as film and television post-production, corporate meetings, music production, sound design, motion picture and television will be addressed. Resume and cover letter construction are discussed. Topics include marketing, range of employment opportunities, and regulations are covered.

Prerequisite: HUM146, ENG102

New Media Technology

HUW111 E-Commerce Technology

3 credits; 4 hours (3 lecture, 1 lab)

This course provides students with the fundamental steps required to build a successful e-commerce system. Topics include: client/server technologies, Web servers (e.g., Apache, IIS), connectivity with database systems, obtain/connect with secure certificates. This course will provide students with hands-on experience designing, implementing, and monitoring business-customer websites.

Prerequisite: ENA/ENC/ENG101, HUW161 or HUW166

HUW112 Introduction to New Media

3 credits; 3 hours

This course introduces students to new media. It explores the applications of new media and discusses underlying technologies such as digital video/audio, Web pages, programming, physical computing, compression and file transfer. The course will build from file and directory manipulation through to the design of interactive materials. The lab portion of the course will explore digital video and audio editing; Web page design; image editing; and a computer scripting language.

Prerequisite: CSE098/099, ENA/ENG099

HUW161 Principles of Multimedia and Web Design

3 credits; 4 hours (2 lecture, 2 lab)

This course explores various aesthetic and ergonomic issues from both the user and technical standpoints of Web design. Students are introduced to development tools to aid in the creation of multimedia applications. Topics include the human computer interface, site navigation, browser safe design, HTML, CSS, XML, layout control, templates, plug-ins and image manipulation.

Prerequisite: HUW112

HUW162 Web Animation and Interactivity

3 credits; 4 hours (2 lecture, 2 lab)

Students will learn to design effective web sites using multimedia elements such as audio, video, and animation. Each student is required to develop and publish web content in order to prepare for a career in New Media. Students will further explore web animation and interactivity via database connectivity, graphics, and scripting to develop rich media applications and sites. The lab portion will require the completion of a final project that demonstrates mastery of the material covered.

Prerequisite: HUW112

HUW163 Internet Video

3 credits; 4 hours (2 lecture, 2 lab)

Students develop their skills in multimedia and streaming video focusing on special effects and motion graphics. They will also use tools that include: video capture, video editing, and video compression for streaming media. Students will be introduced to digital video software to create video that can be embedded into Web pages or social media platforms. Students will be required to complete a final project that demonstrates mastery of the material covered.

Prerequisite: HUW112

HUW166 Introduction to Web Development

3 credits; 4 hours (3 lecture, 1 lab)

This course introduces students to the Internet and the World Wide Web. Students will learn about web browsers, XHTML coding, JavaScript and CSS. Students will code and generate web pages by hand in preparation for creating fully dynamic sites. The basics of modifying bitmapped images will be covered.

Prerequisite: HUW112

HUW167 Dynamic Web Design

3 credits; 4 hours (2 lecture, 2 lab)

This course continues the principles of web development and introduces students to creating dynamic database driven web sites with HTML and web programming languages such as PHP and MySQL. In addition, Javascript and CSS programming will be reinforced before advancing to the server side language.

Pre- or Corequisite: HUW166

HUW168 Advanced Dynamic Web Design

3 credits; 4 hours (3 lecture, 1 lab)

This course continues on the web programming foundation introduced in HUW167, Dynamic Web Design. Students will continue developing dynamic database driven web sites with XHTML and web programming languages like PHP, MySQL, Coldfusion and ASP. Special attention will be given to the integration of newer technologies like JQuery, Spry, AJAX, into effective web page design. As well as the use of Content Management Systems (CMS) like Wordpress, Joomla and Drupal in the rapid development of web sites.

Prerequisite: HUW167

HUW169 Game Design

3 credits; 4 hours (2 lecture, 2 lab)

This course deals with the technology, science, and art involved in the creation of computer games. The focus of the course will be on hands-on development of computer games. Students will study a variety of software technologies relevant to online game design, including programming languages, scripting languages, file systems, simulation engines, and multimedia design systems.

Prerequisite: HUW112

HUW260 Experiential Learning in New Media Technology

3 credits; 16 hours (1 lecture, 15 lab)

This course will provide students with experiential learning to meet the specific needs of new media technology internships. The seminar will meet once a week to help students succeed by offering ongoing support and mentoring to maximize students' learning experiences during their internship. This course will provide students with an understanding of the development and growth of this sector of the economy, as well as with specialized readings to meet the demand for knowledge and information. Students will also become actively involved in this community through participation in professional and technical meetings and events.

Student must have completed 30 credits and a minimum of 9 credits in the major. All internships must be approved by program director or designee.

Prerequisite: HUW112

HUW269 New Media Project Lab*3 credits; 4 hours (2 lecture, 2 lab)*

The New Media Project Lab will serve as the capstone course in the major and reinforce key New Media concepts. Students will develop a final professional portfolio to display their command of multimedia design. Students will be able to utilize this portfolio in an interview in order to obtain work in the field of New Media. The portfolio will serve as a final thesis project and contain revised examples of their past work.

*Prerequisite: ENA/ENC/ENG101, HUW166**Student must have completed 45 credits and a minimum of 9 credits in the major. Capstone course. Writing intensive.***Philosophy and Critical Thinking****HUP101 Introduction to Philosophy***3 credits; 3 hours*

This course introduces students to the process of philosophical reflection. Utilizing the concept of freedom extensively, it seeks to develop the student's ability to analyze concepts and to explore life experience in a structured and coherent fashion. Students are encouraged to develop their perceptions by critically examining their own beliefs, attitudes, and assumptions in light of the philosophical analyses they encounter.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUP102 Critical Thinking***3 credits; 3 hours*

The goal of this course is to help students become thoughtful and effective critical thinkers, applying the intellectual abilities and specialized reasoning skills to themselves and their society. Students will also learn to identify, evaluate, and solve problems on an individual and societal scale. They will gain self-awareness and a deeper knowledge of the ways in which they interact, change, and are changed by society in order to analyze their role as responsible citizens in a globalized world.

*Corequisite: CSE095 or CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099; This course is closed to students who have taken HUR100.***HUP104 Ethics and Moral Issues***3 credits; 3 hours*

This course investigates the nature of morality and its place in human experience. Among the questions posed and discussed are: Is morality simply relative to specific cultures? What are criteria for right and wrong? What is moral agency? Does love have a place in the moral life? Students are encouraged to explore how morality functions in their own lives.

*Prerequisite: CSE099, ENA/ENG/ESA099***UP105 Philosophy of Religion***3 credits; 3 hours*

An examination of humanity's basic perceptions of itself as they are reflected in religion. Both Western theism and Eastern non-theism will be explored and evaluated. Special attention will be given to the phenomenon of religious experience as it occurs in the different traditions.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUP106 Social & Political Philosophy: Making a World of Difference***3 credits; 3 hours*

This course invites students to explore both classical and contemporary social and political philosophical theories. Time-honored philosophical perspectives will provide students with a stimulating foundation upon which to explore current social and political issues on a global perspective. With so many provocative challenges confronting the world, students will be offered a philosophical and comparative format through which to better understand and address these global concerns.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUP107 Philosophy of Art***3 credits; 3 hours*

This course explores philosophical theories of beauty and their relationship to the nature of art, as well as the relationship of beauty to truth, morality, and social context. Using examples drawn from the visual arts, performing arts, film, and music — students will examine the origins, purpose, and meaning of art; the nature of the aesthetic experience; and the standards we use to judge artistic expression. Full use will be made of the rich artistic resources of New York City.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUP108 Environmental Ethics***3 credits; 3 hours*

This course offers students an opportunity to investigate ethical issues concerning the environment. The study of Environmental Ethics relates in complex ways to moral theory, as well as global issues in economics, politics and science. This course will explore environmental questions such as our personal responsibility for solving environmental problems; health concerns, and our obligations to ourselves and to other species. Potential solutions will also be explored.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUP109 Philosophy of Law***3 credits; 3 hours*

This course examines legal concepts and theories, moral theories, and problems of legal reasoning and decision-making. Students have the opportunity to critically evaluate philosophical arguments in the areas of justice, liberty and responsibility. Topics to be addressed include, among others, excuse and justification in criminal law, capital punishment, theories of torts and contracts, international law, civil disobedience, censorship and the right to privacy.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP112 Logic and Philosophy*3 credits; 3 hours*

An introduction to modern symbolic logic with a focus on its application to actual philosophical problems. Topics to be discussed include validity, entailment, truth-tables, proofs, translations from English into symbolic form, as well as more philosophical topics like the relation of modern logic to earlier syllogistic logic, the possibility of the use of logic to resolve philosophical problems (e.g., God's existence or free will), the relation of English to logic, and the possibility of 'alternative' logics.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

HUP114 Medical Ethics*3 credits; 3 hours*

This course emphasizes the application of moral theory to the issues that arise in the context of medical research and practice. Topics to be addressed include, among others, the role and responsibility of healthcare givers in death and dying, the use of stem cells and animals in medical research, the use of genetic information to influence the outcome of human pregnancy, cosmetic surgical addiction and issues involving involuntary psychiatric care.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP115 Philosophy of Love*3 credits; 3 hours*

This course will examine the difference between competing definitions of love as eros, philia and agape with the aid of classical and contemporary philosophical texts, love letters, poetry, psychology, and film. Exercising critical thinking to explore the nature, aim, and activity of love opens an avenue for understanding the self and others while providing diverse perspectives on why the object(s) of love can shape identity as much as the way in which one loves.

Prerequisites: CSE099; ENG/ENA/ESA099

HUP116 Latin American Philosophy*3 credits; 3 hours*

This class discusses philosophy from and about Latin America and the topics, styles, and voices that have been born there. Latin America is an invented region, regulated and formulated by external forces. It is only logical that such a place would have adopted some philosophical modes, and yet it also makes sense that philosophy would find here a style that challenges traditional formulations and problems.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP117 Medieval and Renaissance Philosophy*3 credits; 3 hours*

This course introduces students to a critical examination of issues of central concern to Medieval and Renaissance philosophers. We will explore the new directions in which they took philosophy and evaluate the resources in their works that are relevant to numerous significant contemporary debates. Topics include knowledge, the problem of universals, the nature of time, infinity and possibility, being and essence, substance,

individuation, God's existence, necessity, contingency and causation, free will and responsibility, body, soul and intellect, truth and predication, anti-essentialism, ethics and human nature.
Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP118 African Philosophy*3 credits; 3 hours*

A critical examination of the fundamental questions of human existence as reflected in African traditional conceptions of God, nature, person, identity, free will, morality and the search for a viable political system. This course will analyze the differences and similarities with other systems of thought including the philosophical ideas in the writings of modern thinkers of African descent.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP121 Eastern Philosophy and Religion*3 credits; 3 hours*

This course will introduce the student to Eastern philosophies through an historical and cultural perspective. Hinduism, Buddhism, Taoism, Confucianism, Jainism, Sikhism, Shintoism and Sufism will be among the topics covered in this course. Students will work through several texts and selected readings from primary sources for each philosophy in order to gain an understanding of the doctrines, values, metaphysics and epistemology of various Eastern philosophies.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP122 Philosophy of Gender and Sex*3 credits; 3 hours*

This course investigates the philosophical foundations of our most basic assumptions surrounding gender and sex, inviting students to critically reflect on the role these play in defining our identity and values. Topics are oriented around the gendered ways in which persons become authentic, knowledge is created, morality is practiced, and resistance is possible. Representative issues include self-empowerment, embodiment and objectivity, the place of emotion in ethics, and global gender justice.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP125 Introduction to Philosophy of Science*3 credits; 3 hours*

An introduction to the historical and philosophical foundations on which scientific inquiry rests. Topics to be discussed might include how science explains, how scientific theories reflect the nature of the world, causation and induction, laws of nature, frequency, subjective and Bayesian probabilities. Also, the class may discuss the epistemology of how certain historical discoveries caused major scientific shifts.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUP215 Philosophy of Love*3 credits; 3 hours*

This course will examine the difference between competing definitions of love as eros, philia and agape with the aid of classical and contemporary philosophical texts, love letters, poetry, psychology, and film. Exercising critical thinking to explore the nature, aim, and activity of love opens an avenue

for understanding the self and others while providing diverse perspectives on why the object(s) of love can shape identity as much as the way in which one loves.

Prerequisites: CSE099; ENG/ENA/ESA099

HUP275 Landmarks in Philosophy

3 credits; 3 hours

This capstone course engages students in the study of key philosophical works by such major philosophers as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, Kant, Marx, Russell, Wittgenstein, and Sartre chosen from the following periods: ancient, medieval, modern, contemporary. Building on their previous familiarity with these thinkers, students will develop a coherent framework for understanding philosophy, and explore and synthesize the central themes of philosophical study.

Prerequisites: HUP101, two other Philosophy courses

Performing Arts

Dance

HUD101 Theatrical Dance I

2 credits; 2 hours (1 practice hour)

This course will introduce students to ballet, modern jazz and selected ethnic dance through dance history and class performance. Students will utilize the basic techniques of each of these dance forms, including barre exercises, center practice and combinations across the floor. The basic theory of the positions and movements of the body will be explored. Leotards and tights or loose fitting athletic wear is recommended. Students will be required to attend and pay admission for one live dance performance. Studio time (one hour) will be recommended for use by students for practice. This will be unsupervised practice time and students will not be required to pay tuition for this hour.

Pre- or Corequisite: CSE099, ENA/ENG/ESA099/ENC101

HUD102 Theatrical Dance II

2 credits; 2 hours

This course is a continuation of Theatrical Dance I (HUD101). Through the advanced study of dance technique in ballet, modern and jazz dance, students will continue to explore the theory and practice of dance as an art form and to explore how ethnic dance has influenced theatrical dance in the United States. Significant dance artists, choreographers and major works of choreography will be examined. Leotards and tights or loose fitting athletic wear are recommended.

Prerequisite: HUD101

Music

HUM101 Introduction to Music

3 credits; 3 hours

This course is designed to develop an understanding and appreciation of various forms of music. Emphasis will be placed on the elements of musical organization, expression and style. Students will gain understanding by listening to selections and by discussing significant features of musical compositions from the Middle Ages to the present time.

Prelcorequisite: CSE099, ENG/ENA/ESA 099

HUM104 Music for Children

3 credits; 3 hours

This course is designed to allow education students to explore the range of music fundamentals and techniques as they relate to rhythm, pitch and vocal expressiveness. Students will be introduced to basic skills of percussion, the recorder, singing and reading music. They will continually grow in this ability to listen to, respond to and create music with understanding, skill and sensitivity; and to present lessons to children that allow them to have those experiences as well.

Prerequisite: CSE099, ESL/ESR099

HUM107 Music of Latin America

3 credits; 3 hours

This course is a survey of the music of Latin America, from Brazilian samba to Dominican bachata and more. Latin American musical developments from the past and present will be studied to show the individual characteristics as well as the common elements within various styles, while considering the global impact of Latin Music genres. This course will expand students' understanding of world cultures and global issues through an interdisciplinary lens.

Prerequisite: CSE099, ENA/ENG/ESA099

HUM110 Introduction to Jazz

3 credits; 3 hours

This course is an introduction to jazz music, its history, and its various styles. Students will learn the rich tradition of jazz that includes New Orleans brass band culture, dixieland, blues, ragtime, boogie woogie, bop, cool, avant garde, fusion, and orchestral jazz. By understanding the critical role jazz has played in the development of US musical culture, and the expressive power of jazz performance, students will gain new insight into music, cultural meaning, and creativity.

Prerequisite: CSE099, ENA/ENG/ESA099

HUM109 World Music*3 credits; 3 hours*

This course is designed to develop an understanding and appreciation of jazz as a folk art. The music and characteristics of various styles, including Dixieland, blues, ragtime, boogie woogie, hop, cool, funky, eclectic and jazz-fusion rock, will be studied through recordings and classroom performances. Emphasis will be on the stylistic characteristics of jazz piano, jazz/blues vocalists, the rhythm section, alto saxophone, tenor saxophone, trumpet and trombone. The course will involve outside reading and listening, as well as performances and lecture/demonstrations.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUM140 Music Theory I*3 credits; 3 hours (2 classroom, 1 lab)*

Music Theory I is a comprehensive study of the key components in the performance, creation, transcription and analysis of music. Students will acquire and build upon the fundamentals of notation and musical literacy to begin to understand how music functions. Topics covered include major and minor scales and keys, diatonic intervals, chromatic intervals, transposition and composition. Students will transcribe, analyze, compose and perform music in this course.

Pre/corequisite: CSE099, ENA/ENG/ESA099, MAT095

HUM144 Musicianship I*2 credits; 3 hours*

Musicianship I develops basic skills required to train the musician's ear to identify, interpret, process and utilize aural information presented in music. Students will discover how to aurally identify diatonic and chromatic intervals, interpret and document rhythms, sight sing melodies, identify fundamental harmonic sonorities, and transcribe melodies.

Prerequisite: HUM140

HUM146 Music Audio Recording I*3 credits; 4 hours (3 lecture, 1 lab)*

This course will introduce students to music audio recording using industry-standard software, such as ProTools. Topics covered will include digital recording, mixing and editing on an introductory level. Students need not have any prior experience.

Prerequisites: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

HUM147 Music Audio Recording 2*3 credits; 3 hours*

This course more extensively examines theories and technologies, used in audio productions for music and provides the student with a vocabulary covering the area of audio production. Students learn the techniques and technology used in modern multi-track studios and participates in intensive hands-on work in a multi-track recording studio using Pro Tools hardware and software and plug-in signal processors. Emphasis is on stereo and multi-track editing and use of plug-ins, mixing and post productions.

Prerequisite: HUM146

HUM151 Contemporary Vocal Ensemble*1 credit; 3 hours*

Emphasis is on the preparation for public performance of contemporary choral music for small vocal ensemble with two to four voices on each part. The repertory will include arrangements in a variety of contemporary vocal idioms: gospel, musical theatre, jazz. Performances of original works will also be encouraged. Enrollment will be limited to 20 students.

A student may take Contemporary Vocal Ensemble five sessions for credit, or audit without credit.

Prerequisite: CSE099

HUM152 Contemporary Vocal Ensemble I*1 credit; 3 hours*

Contemporary Vocal Ensemble I is designed for all vocalists to improve their musical performance skills in a choral setting. Students gain skills in part-singing, blending vowels, proper diction, breath control, expanding range, and stylistic interpretation through the study and performance of various contemporary musical genres. This course culminates with one or more public performances and a recording that documents the repertoire covered throughout the semester.

Pre/corequisite: CSE099, ENG/ENA/ESA099

HUM155 Voice Class I*3 credits; 3 hours*

This course introduces students to the techniques of vocal production through a group setting. Students explore topics of breath control, support, diction, phonetics, vowel placement, diatonic harmony, and 2-3 part-singing. Students discover the difference between head tone/falsetto versus chest voice. Students learn how to apply these techniques to a range of musical styles; pop, doo-wop, musical theatre, and classical literature. The course culminates in a public performance.

Prerequisite: CSE095, ESL098

HUM156 Voice Class II*3 credits; 3 hours*

This course reinforces and builds upon the vocal techniques and choral skills studied in HUM 155 Voice Class 1. Students study advanced vocal exercises to further their mastery of breath control, diction, vowels, and transversing chest and head voice. Students study choral literature with advanced harmonic language, rhythm, counterpoint, and 4-6 part-singing. Students are introduced to the beginning concepts of belt technique.

The course culminates in a public performance.

Prerequisite: HUM155 with a C or better

HUM160 Applied Music I*2 credits; 3 hours (1 classroom, 2 lab)*

Applied Music I is the first level of a three-semester sequence in performance skills. Students will be assigned technical exercises and works to be performed. Music theory, aural skills, sight-reading, and musicianship appropriate to the level of practical ability will also be covered. Juries and recitals of solo performances are required. All applied studies for music majors include a weekly one-hour individual lesson and two-hour studio lab.

Pre/corequisites: CSE099, ENG/ENA/ESA099

HUM161 Applied Music II*2 credits; 3 hours (1 classroom, 2 lab)*

Applied Music II is the second level of a three-semester sequence in performance skills. Students are assigned technical exercises and works to be performed. Music theory, aural skills, sight-reading and musicianship appropriate to the level of practical ability will also be covered. Juries and recitals of solo performances are required. All applied studies for music majors include a weekly one-hour individual lesson and two-hour studio lab.

*Pre/corequisites: HUM160***HUM170 Guitar I***3 credits; 3 hours*

This course is designed to introduce students to the fundamentals of acoustic guitar technique: strumming/picking technique, correct fingerings, and tuning the guitar. Students will be introduced to the rudiments of music (types of notes, note values, time signatures, chord structure and scales). Students will learn to read and perform simple guitar melodies/chords and they need not have had previous guitar instruction. Guitars will be provided for student use.

*Prerequisite: CSE099, MAT095 or MAT099***HUM171 Guitar II***3 credits; 3 hours*

This course is a continuation of HUM170. Guitar techniques, including: strumming, slurring, guitar picking and exercises to facilitate more advanced left hand with right hand coordination will be continued. Further study in music theory, chord analysis and the essentials of various styles (classical, pop, and jazz) will also be included. Guitars will be provided for student use.

*Prerequisite: HUM170 with a grade of C or better or audition***HUM173 Blues, Rock and Jazz Ensemble***3 credits; 3 hours*

The Rock, Blues, and Jazz Ensemble is for all instrumentalists seeking to improve their skills as ensemble performers. This course is designed to enable students to perform cohesive ensemble music with attention to skills such as, reading, improvisation, performing a variety of styles, rhythm section techniques, good stage presence, communication in musical terms & band equipment set up. Class sessions consist of small group rehearsal and culminate in one or more public performances near the end of the semester.

*Pre- or Corequisite: CSE095, ESL097***HUM174 Ensemble I***2 credits, 3 hours (3 lab hours)*

Ensemble I is designed to improve instrumental students' musical performance in an ensemble. This course is designed to enable students to perform cohesive ensemble music with attention to skills such as reading, improvisation, performing in a variety of genres, rhythm section techniques, stage presence, communication in performance, and overall presentation. Class sessions consist of small group rehearsals that culminate with one or more public performances and a recording that documents the semester.

*Pre/corequisite: CSE099, ENG/ENA/ESA099***HUM180 Piano I***1 credit; 2 hours (1 classroom, 1 lab)*

This course introduces students to piano/keyboard skills. Students develop skills in basic piano technique, reading music, and music theory. Students apply their skills and knowledge through the mastery and performance of basic piano literature and pop/jazz chord charts.

*Prerequisite: CSE099, ESL098, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099***HUM181 Piano II***1 credit; 2 hours (1 classroom, 1 lab)*

This course builds on piano/keyboard skills mastered in Piano I, HUM 180. Students develop more advanced skills in piano technique, reading music notation, and music theory. Students apply their skills and knowledge through the mastery and performance of piano literature and contemporary pop/jazz songs.

*Prerequisite: HUM180***HUM182 Piano III***1 credit; 2 hours (1 classroom, 1 lab)*

This course builds upon the students' piano skills acquired in Piano 1 and 2 to further their functional piano competency. Students further develop more advanced skills in piano technique, sight-reading, transposition, accompanying, scales, chord progressions, harmonization, score reading, improvisation and keyboard ensemble. The emphasis in this course is on developing functional keyboard skills to be used in a variety of musical settings.

*Prerequisite: HUM181***HUM183 Piano IV***1 credit; 2 hours (1 classroom, 1 lab)*

This course advances the piano skills acquired in Piano 1, 2, and 3 to deepen students' functional piano proficiency. Students will focus on the development of their skills in sight-reading, piano technique, accompanying, scales, harmonization, score reading, and improvisation. The course will expose students to a wide variety of musical genres in conjunction with furthering their piano practice.

*Pre/CoRequisite: HUM182***HUM191 Percussion II***3 credits; 3 hours*

This course is designed as a continuation of HUM190, Percussion I. It is intended to increase the students' knowledge and technical ability as percussionists on a variety of instruments. The students will study and perform music in varying styles intended to increase their proficiency in reading written music. In addition, they will enhance their playing and reading ability by studying gradually more advanced technical percussion exercises. There will be in-class and public performances.

Prerequisite: HUM190 with a grade of C or better or audition

HUM193 Popular Percussion Ensemble*3 credits; 3 hours*

This course is designed to allow students to participate in percussion groups of various sizes. Students will study and perform music from published and/or original arrangements, which reflects a variety of percussion styles. Music Fundamentals and Techniques (rudimentary music theory) as applied to the different pitched or non-pitched percussion instruments will be studied. No prior musical experience necessary.

*Pre- or Corequisite: CSE095, ESL097***HUM210 American Music***3 credits; 3 hours*

American music is an exploration of the various musical developments in the United States. Through listening, reading, and discussion, students will investigate folk music, entertainment and commercial music, art music and other musical traditions of the United States. The Broadway musical and the current musical scene will also be studied.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUM240 Harmony and Counterpoint***4 credits; 4 hours*

This course is an in-depth study of diatonic and chromatic harmony. This course will reinforce the fundamental concepts covered in Music Theory I as well as taking an overview of species counterpoint. Students will study the harmonic conventions of the 17th and 18th centuries including chorale composition, part writing and the figured bass. Parallel concepts related to harmony will be explored related to contemporary music.

*Prerequisite: HUM244***HUM244 Musicianship II***2 credits; 3 hours (1 classroom, 2 lab)*

Musicianship II builds on the skills acquired in Musicianship I to improve the musician's ear. Students learn to identify, interpret, process and utilize aural information presented in music. Students will further develop their ability to aurally identify diatonic and chromatic intervals beyond the octave, interpret and document complex rhythms, sight sing melodies in multiple clefs, identify and interpret harmonic progressions, and transcribe diatonic and chromatic melodies in single and two-part contexts.

*Prerequisite: HUM144***HUM252 Contemporary Vocal Ensemble II***2 credits; 3 hours (2 classroom, 1 lab)*

Contemporary Vocal Ensemble II is designed for all vocalists to build upon the skills developed in Contemporary Vocal Ensemble I. Students will continue to improve their musicianship in a choral setting through the study of advanced literature and vocal techniques, including improvisation, beat-boxing, singing one voice per part, and a capella. Class sessions consist of both large and small group ensemble rehearsals that culminate with one or more public performances and a recording that documents the semester.

*Prerequisite: HUM152***HUM253 Contemporary Vocal Ensemble III***3 credits; 3 hours*

Contemporary Vocal Ensemble III is designed for all vocalists to

build upon the skills developed in Contemporary Vocal Ensemble I and II. Students will continue to further their vocal performance skills in a choral setting through the study of advanced literature in a wide variety of genres. The ensemble focuses on the advancement of individual vocal techniques, including improvisation, harmonization, and a capella singing. Class sessions consist of both large and small group ensemble rehearsals that culminate with one or more public performances and a recording that documents the semester.

*Prerequisite: HUM161***HUM255 Voice Class III***3 credits; 3 hours*

In this course students reinforce and build upon previously studied vocal techniques through small ensemble and solo work. Students refine skills in breath control, support, diction, phonetics, placement, part-singing, and navigation between chest and head/falsetto voice. Students expand their knowledge in the application of vocal techniques to advanced vocal literature in jazz, musical theatre, a cappella and opera/art song. The course culminates in a public performance.

*Prerequisite: HUM155, HUM156***HUM261 Applied Music III***3 credits; 3 hours*

Applied Music III is the third level of a three-semester sequence in performance skills. Students are assigned technical exercises and works to be performed. Music theory, aural skills, sight-reading and musicianship appropriate to the level of practical ability are also covered. Juries and recitals of solo performances are required. All applied studies for music majors include a weekly one-hour individual lesson and two-hour studio lab.

*Prerequisite: HUM161***HUM274 Ensemble II***2 credits; 3 hours (3 lab hours)*

Ensemble II is designed to build upon instrumental students' skills developed in Ensemble I. Students will continue to improve their musicianship in an ensemble setting through the development of sight reading, improvisation, and comprehensive performance skills in a variety of genres. Students will also compose original music for the ensemble. Class sessions consist of small group rehearsals that culminate with one or more public performances and a recording that documents the semester.

*Prerequisite: HUM174***HUM275 Ensemble III***2 credits; 3 hours (3 lab hours)*

Ensemble III builds upon instrumental students' skills developed in Ensemble I and Ensemble II. Students continue to improve their performance skills and musicianship in an ensemble setting through the development of sight reading, improvisation, and comprehensive performance skills in a variety of genres. Students compose original music for the ensemble. Class sessions consist of small group rehearsals that culminate with one or more public performances and a recording that documents the semester.

Prerequisite: HUM274

Theatre

HUT101 The Art of Theatre

3 credits; 3 hours

This course is an introduction to the study of theatre, including playwriting, directing, acting, design and technical theatre. No experience in dramatic production is required. Lecture discussions, performances, demonstrations, films, tapes and guest appearances by theatre professionals will be included. This course is intended as the gateway course into the theatre major. *Pre- or Corequisite: ENA/ENC/ENG101*

HUT110 Acting I

3 credits; 3 hours

This course examines the theoretical perspectives and the practical demands of acting as an art form. Readings in theory are supplemented by student presentations of short scenes and possible seminar visits to New York theatres. *Pre- or Corequisite: ENA/ENC/ENG101*

HUT111 Acting II

3 credits; 3 hours

This course offers exploration of the theory and practice of acting as an art form through the study of scene preparation and character analysis. Study scenes will be taken from comedy, farce, contemporary and classical drama, offering practice in a variety of acting styles. The spatial characteristics of the stage, rehearsal techniques and the use of props/costumes/make-up will be examined. In addition to texts and plays, students will be required to buy a basic stage make-up kit. *Prerequisite: HUT110*

HUT115 Script Analysis

3 credits; 3 hours

This course provides students with critical tools to research and comprehend plays as theatre practitioners. Students will learn how fundamental principles of dramatic structure apply to selected plays for the actor, director, designer, technician, producer respectively, and for related fields. *Prerequisite: ENA/ENC/ENG101*

HUT122 Introduction to Design for the Theatre

3 credits; 3 hours

This course gives the student an overview of the role of design in theatre. Topics to be studied include: the history of theatre architecture and stage technology; the various stage configurations and specialized equipment; the design process for theatre production; and an overview of design for scenery, properties, lighting, costumes, makeup, sound and projection.

HUT175 Directing for the Stage

3 credits; 3 hours

This course explores the functions and responsibilities of the theatre director: script analysis, transfer or written text to the stage, blocking, pacing, developing characters, using props, sound and theatrical design elements. Students explore the director's relations with the playwright, designers and actors.

Activities include viewing videotape of directors at work, attending rehearsals with directors of diverse backgrounds, auditions, casting a play and using various rehearsal techniques. *Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101*

HUT195 Theatre Production Workshop

3 credits; 4 hours

This course will involve the study and practical application of basic aesthetic and technical aspects of theatrical production. Through participation in a public production, the student will have a major responsibility in one of the following areas: acting, directing, stage management, rehearsal techniques, set design and lighting, makeup and costuming, and publicity or promotion. Additional time for rehearsals and technical production will be required as a part of this course. *Pre- or Corequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101*

HUM201 American Musical Theatre Workshop 1

3 credits; 4 hours

The students will participate in the preparation and public performance of a Broadway musical. Emphasis will be placed on individual and group learning experiences, and specific techniques required for performing in musicals, including such techniques as characterization, coordination of acting and body movement with singing, transition from speech to song, group movement for a singing chorus; techniques of memorization; and overall production and publicity responsibilities. Additional rehearsal hours are part of the course requirement. *Prerequisite: ENG101, Music-Theory or Beginning Piano, Voice II with a grade of B or better; or waiver*

HUM202 American Musical Theatre Workshop 2

3 credits; 4 hours

This course provides the student with an overview of literature and performance techniques for the musical theatre stage. The vocal techniques of belt, legit, and mix are examined along with their appropriate application historically, in solo performance, ensemble singing, and in comedic/dramatic literature. Students learn dramatic analysis of a lyric and its application in acting the song. The final project is a staged showcase with each student performing in both a lead and supporting role. *Prerequisite: HUM201*

HUT210 Theatre: Pre-history to the Renaissance

3 credits; 3 hours

This course will examine the development of theatre from the earliest ritual origins to the Renaissance. Topics include: theatre and drama in Ancient Greece; Roman and Byzantine theatre; European theatre and drama of the Middle Ages; Italian, English, Spanish, and French theatre of the Renaissance; and the origins of theatre in Africa and Asia.

HUT211 Theatre: Renaissance to Modern Times*3 credits; 3 hours*

This course will examine the development of theatre from the Renaissance to today. Topics include: post-Renaissance European theatre through the 19th century; early and late 19th century European theatre; American theatre prior to 20th century; the beginnings of modern world theatre; and post-World War II theatre.

HUT220 Contemporary Latina/o Theatre in the United States*3 credits; 3 hours*

This course examines Latina/o theatre and performance in the United States from the turbulent 1970s to the present. Students will read plays from the emerging Latina/o canon while integrating supplementary texts including reviews, critical analyses, essays, and theoretical studies examining the Latina/o theatre. Plays will be studied using various modes of inquiry including geographic, linguistic, gender studies, exile, immigration status and borderlands theory.

*Prerequisite: CSE099**Pre-corequisite: ENA/ENC/ENG101***HUT230 Auditioning***3 credits; 3 hours*

This course introduces students to the process of selecting, preparing, and executing successful audition material for both professional engagements and entrance auditions for transfers to four-year acting conservatories. Students study some of the business aspects of acting including building resumes, getting headshots, working with agents/managers, and joining the unions. At the completion of the course, students will have technique and a body of material that will prepare them for the professional audition.

*Prerequisite: HUT111***HUT250 Voice and Movement for the Stage***3 credits; 3 hours*

This course is the study of vocal and movement work, practiced in a combined method to ensure engagement with the physical body on stage. Projection, correct pronunciation, consonant and vowel production, paired with physical theatre techniques will develop students' performance skills. Proper breathing and physical techniques will be used.

*Prerequisite: HUT101, HUT110***HUT299 Experiential Learning in Theatre***3 credits; 3 hours*

The purpose of the Experiential Learning in Theatre course is to provide students with an experience based learning opportunity with a Theatre Program faculty member in order to design and complete, or complete a significant portion of a major creative, scholarly, research, social project with the intent to present, exhibit, publish, or otherwise make available the outcomes of the project.

Visual Arts**Art Appreciation****HUA101 Introduction to Art***3 credits; 3 hours*

This course is designed to develop the students' ability "to see," while it examines the fundamental nature, meaning, and humanistic value of art. Attention will be given to an examination of the creative process and to the role of the spectator as an active participant in the understanding of art. Relevant readings will be discussed in relation to specific works of art. The function of basic compositional elements will be examined. Museum visits are required.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUA196 Latin American Art***3 credits; 3 hours*

This course introduces students to the visual art traditions of Latin America through lecture, readings, and discussion. Topics include: pre-Hispanic art and architecture, Latina/o art, Spanish/Portuguese colonial-era art, Mexican modernism, and post-colonial art. Students analyze the meaning and techniques of selected artworks in Latin American art history through written assignments and oral presentations.

*Pre/corequisites: CSE099, ENA/ENG/ESA099***HUA294 Experiential Learning in the Fine Arts***3 credits; 3 hours*

Experiential Learning in the Fine Arts provides students with an experience-based learning opportunity with a Fine Arts faculty member. Students, with faculty guidance, design and develop a major creative project for exhibition or for other ways of sharing project outcomes

*Prerequisite: MAT096**Pre-or Corequisite: HUA203, HUA210, HUA230*

KRISTIAN LARROTA / LAGUARDIA COMMUNITY COLLEGE

Art History

HUA165 Art History: Prehistoric Through Gothic

3 credits; 3 hours

This survey of art from pre-history to the late Middle Ages builds visual understanding through close study of individual works of art in various media, including painting, sculpture and architecture. Connections between art works and their cultural contexts are emphasized, as are the cross-cultural exchanges which have enriched the diverse artistic traditions of Europe and the Americas. Museum visits are required.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUA166 Art History: Renaissance Through Modern

3 credits; 3 hours

This survey of art from the Renaissance to the present builds visual understanding through close study of individual works of art in various media, including painting, sculpture, architecture, and photography. Connections between art works and their cultural contexts are emphasized, as are the cross-cultural exchanges which have enriched the diverse artistic traditions of Europe and the Americas. Museum visits are required.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUA167 Introduction to African Art

3 credits; 3 hours

This course will explore various styles — primarily from Western Africa — including urban, rural, and royal works of art. The main emphasis of the course will be the way these works of art have been and continue to be used in everyday activities and their importance in community life. Contact and cross influences with Islam, Europe and the Americas will be discussed. Two museum trips are required.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUA191 The Art of Eastern Asia

3 credits; 3 hours

A comparative study of the artistic traditions of India, China, and Japan, from their Stone Age beginnings to recent trends. The class will focus on the visual relationship of works of art to Confucianism, Buddhism, Kami-no-michi, and Taoism.

Prerequisite: MAT095 or MAT099

Pre-corequisite: ENC/G101

HUA196 Latin American Art

3 credits; 3 hours

This course introduces students to the visual art traditions of Latin America through lecture, readings, and discussion. Topics include: pre-Hispanic art and architecture, Latina/o art, Spanish/Portuguese colonial-era art, Mexican modernism, and post-colonial art. Students analyze the meaning and techniques of selected artworks in Latin American art history through written assignments and oral presentations.

Pre- or Corequisites: CSE099, ENA/ENG/ESA099

HUA200 Art of the Twentieth Century

3 credits; 3 hours

This course explores the history of various styles and forms of Western painting and sculpture from the Impressionist period to the present. Such diverse styles of modern art as Cubism, Dada and Surrealism, Expressionism and the more recent styles of Pop and Conceptual Art will be examined and discussed. Consideration will be given to the understanding of abstract and non-objective art as well as the influences which African and Eastern art have had on the development of modern art styles. Illustrated with slides. Museum visits are required.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUA214 History of Illustration

3 credits; 3 hours

This course will examine the history of illustration from illuminated manuscripts to modern sequential narratives by considering the artwork within its socio-cultural context. With the aid of primary source readings, illustrated books, and comics, students will learn to understand the unique power illustration has had in the history of art to convey ideas, to editorialize events, and to enhance literature. Emphasis is placed on illustration's relationship to fine art and on the education of the illustrator.

Prerequisite: ENG/ENA/ESA/USW099 or ENG/ENC101 and CSE/USR099 or Exemptions on reading and writing tests.

HUA215 Art of the Renaissance in Italy

3 credits; 3 hours

The painting, sculpture and architecture of Renaissance Italy will be examined for humanistic content as well as for the visual qualities of composition, style and technique. Works of art will be discussed within the historical context of the Renaissance. Such renowned works as Michelangelo's Sistine Ceiling and Leonardo's Last Supper will be compared to earlier styles. Renaissance art as a foundation of modernism will also be discussed.

Prerequisite: CSE099

Pre- or Corequisite: ENA/ENC/ENG101

HUA285 Graphic Narrative

3 credits; 3 hours

This course develops the students' visual storytelling and design skills, and introduces them to the interaction of visual imagery and verbal themes. Students develop individualized full-term projects in a chosen format, e.g., picture book illustration, comic illustration, or graphic novel illustration. Class lectures and related reading focus on the highlights of classic to contemporary illustration and graphic narratives, and on the elements of a story told in pictures.

Prerequisite: ENG/ENA/ENC101, HUA103

HUA289 Art and Design Seminar*3 credits; 3 hours*

In this course, students engage in research in the form of written and creative projects specific to their discipline and become familiar with material issues and conceptual themes of art. Students develop visual, oral and written presentations, participate in class critiques and develop digital portfolios of studio work and writing. As the capstone course in art, this workshop is both writing and reading intensive. This course also has a one hour lab component in addition to studio time.

Prerequisites: ENG/ENA/ENC101, HUA103, HUA104

Pre- or Corequisites: HUA203, HUA210, HUA220 or HUA 285

Computer Art**HUA125 Introduction to Computer Art***3 credits; 3 hours (2 lecture, 1 lab)*

This course provides an introduction to all phases of computer graphics applications, including draft and paint modes, fills, textures, brushes, graphic tools and color blending through exercises in drawing, painting, graphic design, illustration and advertising techniques. Electronic publishing and software design will also be presented through field trips and videotapes. Students will have hands-on experience with microcomputers utilizing graphics, draw and paint software programs. No previous experience with computers or graphics is necessary.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

HUA126 Computer Art 2*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a higher level extension of Computer Art I (HUA125). Through a deeper examination of visual design and graphics software principles students will solve more challenging graphic and product design problems. Both Mac and Windows OS's will be utilized in order to explore their relationship and synergy. Field trips to museums and design studios. ePortfolio will be employed.

Prerequisite: HUA125

HUA127 Computer Art 3*3 credits; 4 hours (3 lecture, 1 lab)*

This course is a high-level continuation of Computer Art 2 (HUA126) and will focus on more sophisticated graphic design problems utilizing visual design principles. Students will examine more advanced levels of QuarkXPress, Photoshop, and Illustrator. Both Mac and Windows operating systems will be examined. Students will be introduced to the animation programs, Flash, AfterEffects, and Dreamweaver as used in website design. Field trips are designed to increase the students' understanding of the workings of this dynamic and rapidly changing field. Students will produce a portfolio of original design in both "hard" and "soft" media.

Prerequisite: HUA126

Design**HUA107 Form and Structure***3 credits; 3 hours*

This course will study the structural logic found in nature and how it relates to a man-made objects based on observation. Class projects will be creative interpretations in both two and three dimensions and will include an introduction to drawing and model building techniques. Drawing methods based on sighting, perspective and proportion will be taught so that what is seen can be drawn and interpreted accurately. The relationship between concept, structure, form and its function will be explored.

Prerequisite: HUA103

HUA109 Solid Works Essentials*3 credits; 3 hours*

The goal of this course is to teach the student how to use the Solid Works mechanical design automation, software to build parametric models of parts and assemblies, and how to make drawings of those parts and assemblies. The course is designed around a process or task-based approach to training rather than focusing on individual features and functions. The process-based training course emphasizes the process and procedures you follow to complete a particular task.

Pre-requisites: CSE099, ENA/ENG/ESA099, MAT096, HUA106, HUA107

Pre-Co-requisites: MAT115

HUA116 Introduction to Woodworking*3 credits; 3 hours*

This course covers the safe and proper use of power and hand woodworking tools. Procedures for sharpening, maintenance, and adjustment of tools are stressed. Rough wood stock is milled and basic practice on making proper wood joints is provided. Several projects will be required to be fabricated to show the student's understanding of measurement, joint utilization, aesthetics and safety procedures.

Prerequisites: CSE099, ENA099/ENG099/ESA099, MAT096

HUA207 Modelmaking I*3 credits; 3 hours*

This is a hands-on course in how an idea is developed from a sketch to a fully realized prototype model. Fabrication strategies for overcoming material limitations and exploiting their strengths will be emphasized. In addition, students will be expected to control and critique their ideas, as well as develop a professional approach to craftsmanship and communicating those ideas. Industrial design as related to architecture and interior and product design will be introduced. Industry standard software, such as Photoshop and Adobe Illustrator, will be utilized in this course.

Prerequisite: HUA106

HUA212 History of Design*3 credits; 3 hours*

This is an introduction to the history of design as a major independent element of visual arts, and the ways in which intentionally produced objects, environments and experiences both shape and reflect their historical moment. The course will investigate how good design is expressed in architecture, household objects, crafts, tools and transportation. Emphasis will be placed on the importance of social, political and cultural factors and the role they play in how objects and structures are made, and why they look the way they do. Museum visits will be required.

Film and Television**HUC150 The Art of Film***3 credits; 4 hours*

This course introduces students to film theory, criticism, and aesthetics. Screenings represent major movements in world cinema, considered in relation to their diverse cultural contexts. Students analyze differences between film styles, such as expressionism, montage, realism, and modernism. Topics include the notion of "truth" in cinema, the digital revolution, and globalization. Students are introduced to critical models that are used to discriminate between "good" films and "bad" films.
Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUC/ENG238 Screenwriting*3 credits; 3 hours*

This is a course in the art and craft of writing a fictional narrative for the screen. Screenwriting genres and applications vary widely, yet every one reaches its audience through storytelling. Students examine the ways cinematic narratives show, rather than tell. Students then create their own 10-minute movie script. They explore scene and act structure, character development, dialogue, description, etc. Students learn professional standards for writing for the screen and how to use screenplay software.

*Prerequisite: ENA/ENC/ENG101***HUC240 Video Production Workshop***3 credits; 4 hours*

This course introduces the student to the theory, vocabulary, and production techniques of the video medium. Students, functioning as a production team, create, and produce short video projects during the session which culminate in a final production created, organized, and produced by the class. Students are assigned, on a rotating basis, specific production roles such as director, switcher, camera operator, floor manager, audio technician, production assistant or VCR operator. Projects vary from term to term as deemed appropriate by the instructor.
Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

HUC241 Video Production Workshop II*3 credits; 4 hours*

HUC241 gives students the opportunity to produce individual video projects which may serve as a "reel" for transfer or for employment in crafts and creative positions in production. The emphasis is on production of image and sound. Students learn standard formats such as narrative, documentary, music video and TV commercials, and learn how to use the tools and techniques of video production to express their personal visions. Students apply established models for continuity editing and the principles of montage. Students and faculty participate in critical analysis of students' work-in-progress and finished projects.

*Prerequisite: HUC240**Pre- or Corequisite: HUC150***HUC242 Postproduction: Effects, Color, Audio***3 credits; 4 hours*

This course builds on the foundation of DV production and non-linear editing offered in Video Production I, and focuses on special effects, color correction, and digital audio editing. Students utilize more advanced tools and techniques of post-production, such as Adobe After Effects (compositing with green screen, 2D & 3D graphics animation), SpeedGrade (color correction), and Audition (noise reduction). A final short-form video expressively integrates content creation and digital technology.

*Prerequisite: HUC240, MAT096***HUC270 American Film***3 credits; 4 hours*

This course is a survey of artistic, technological and industrial development of cinema in America. The films screened are representative of major developments in American film history: technological, aesthetic, industrial and socio-cultural. Through readings and screenings, the student considers such topics as: major genres that reflect and project American attitudes and values, the work of the great American film artists, and the role of films by Black Americans.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***HUC/ENG272 Literature and Film***3 credits; 4 hours*

This course studies the similarities and differences between literature and film. By comparing and contrasting literary works (complete and excerpts) with films, the course illuminates the methods, structures and contents of the two media, as well as their interrelationship. Writers to be considered may include Shakespeare, Keats, Dickens, Dickinson, Wright, and West; films to be viewed may include those made by Griffith, Chaplin, Riefenstahl, Flaherty and Resnais.

Prerequisite: CSE099, ENG102, HUC150 or HUC270

Photography

HUA121 21st Century Photography

3 credits; 3 hours

This course is a consideration of photography in the digital age. Student will study photography as a force in art, identity, commerce and technological literacy. Readings, lectures and discussions will include: societal fascination with images past and present, ethics of image editing and manipulation, propaganda and truth, the production of self, image makers verses image consumers, and authorship/sharing online. Students must have a digital camera or camera-phone for basic exercises in photography.

Prerequisite: ENA/ENC/ENG101

HUA130 Beginning Photography

3 credits; 4 hours (1 lecture, 3 labs)

This course is an introduction to photography covering the 35 mm camera, lighting, exposure, processing, printing, film scanning and basic Photoshop techniques. The creative use of photographic techniques as they relate to individual expression will be considered. Special projects and a final portfolio are required. Students must have a manually operated 35mm camera and should expect to pay for additional materials for this course. Beginning Photography is a hybrid of analog and digital techniques.

Pre- or Corequisite: MAT095 or MAT099, ESL099/ESR099

Note: An additional hour of lab is required per week so that students may practice technique in the darkroom. Proficiency in basic photography developing and printing is the goal of this scheduling. The additional lab hour is supervised by a college technician.

HUA131 Digital Photography I

3 credits; 4 hours (3 lecture, 1 lab)

This course is designed to introduce students to the hardware and software utilized in capturing digital images (i.e., input). It will include use of digital cameras, analog cameras, scanners, and the downloading of images from the Internet. Students will be introduced to software such as Adobe Photoshop and QuarkXPress, and they will explore their interface with the Macintosh and Windows operating systems. A portfolio presented in "soft" media form will be created.

Prerequisite: HUA130; *Pre- or Corequisite:* HUA125

HUA145 Studio Lighting

3 credits; 4 hours (3 lecture, 1 lab)

This course introduces the students to studio photography. Professional equipment, including the 4 x 5 view camera, 35mm camera, and studio tungsten lighting, will be utilized. Basic studio lighting techniques will be addressed in "table top" (still life) situations. Most assignments will be in black & white; students' ability to produce commercial-quality black-&-white negatives and prints will be emphasized. Students must have a 35mm camera, and should expect to pay for additional materials for this course. *Prerequisite:* HUA230

HUA155 The View Camera, Large Format Photography

3 credits; 4 hours (3 lecture, 1 lab)

Instruction and practice in the operation and use of the view camera and its equipment including: lenses, swings, tilts, perspective control and correction, and enlarging and printing large format negatives will be provided. Students will work primarily with the 4" x 5", and receive experience with the 8" x 10", and learn how the view camera is used in architecture, studio photography and for flatwork. Students should expect to pay for additional materials, equipment and supplies.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, HUA130

HUA202 History of Photography

3 credits; 3 hours

This course will examine the development of photography as an art form. Beginning with the introduction of the camera in the 19th century, the course will focus on early photographic experimentation and its effects on painting. Accordingly, students will then be introduced to the work of great photographers from Nadar to Stieglitz, and to the effects of their work on the development and refinement of the photographic form. An overview of photography in the modern age will conclude the course. *Prerequisite:* CSE099, ENA/ENG099, ESA099, ENA/ENC101

HUA230 Intermediate Photography

3 credits; 4 hours (1 lecture, 3 lab)

An intermediate course in photographic instruction, darkroom technique and aesthetics. Students will be exposed to classic examples of photojournalism, and instructed in appropriate techniques in each area. Students will begin to build a portfolio in a chosen area. Each person will be expected to have a camera. *Prerequisite:* CSE099, ENA/ENG099, ESA099, ENA/ENC101, HUA130

HUA231 Digital Photography II

3 credits; 4 hours (3 lecture, 1 lab)

This course is an extension of Digital Photography I, focusing primarily on the software and some hardware required for the output of digital images. Adobe Photoshop and QuarkXPress are the software that will be emphasized. Adobe Illustrator will also be introduced and some output devices such as inkjet and laser printers will be explored. Storage media such as the writeable CD, DVD and the ZIP disk will serve as "working portfolios" from which the final portfolio of manipulated digital images will be printed.

Pre- or Corequisite: HUA131

HUA234 Color Photography

3 credits; 4 hours (2 lecture, 2 lab)

This course covers the theory and use of color film and digital capture as they apply to color photography. The psychological and aesthetic effects of color will be investigated, and the student will learn to manipulate color through an understanding of various light sources, the use of filters and white balance. The student will learn how to operate the Dichroic color enlarger to create and color correct prints. Students must have a 35mm

camera and should expect to pay for additional materials for this course.

Prerequisite: HUA230

Corequisite: HUA235

HUA235 Color Darkroom Techniques

3 credits; 4 hours (1 lecture, 3 lab)

This course covers the processing of positive photographic film (slides) and color photographic papers (prints). Chemical processes and photographic emulsions will be described and utilized. The student will learn how to operate the dichroic color enlarger and the universal film and print processor. This course is offered in conjunction with Color Photography. Students should expect to pay for additional materials for this course.

Prerequisite: HUA230, *Corequisite:* HUA234

HUA238 Alternative Photography: The Manipulated Image

3 credits; 4 hours (3 lecture, 1 lab)

This course explores a variety of alternative photographic processes and manipulated imagery techniques such as hand-coloring and gum bichromate printing. The incorporation of these processes with collage, printing, drawing, and photographic darkroom techniques, solarization, negative sandwiching and rayogramming will be taught. Students will utilize these techniques in a series of assignments. There will be a gallery/museum trip, a paper and presentations by professional photographers. Student should expect to pay for additional materials for this course.

Prerequisite: HUA104, HUA130

HUA245 Studio Lighting II

3 credits; 4 hours (3 lecture, 1 lab)

This course introduces the students to techniques in portraiture and fashion photography using electronic flash. Students will continue “tabletop” photography using the 4x5 view camera. Assignments will be in black-and-white as well as color; emphasis will be placed on exposure of color transparency film with tungsten and flash illumination. A unit in architectural photography is included. Students must have 35mm equipment and should expect to pay for additional materials for this course.

Prerequisite: HUA145

HUA275 Commercial Photography Workshop

3 credits; 4 hours (2 lecture, 2 lab)

This is the most advanced course in the Commercial Photography curriculum. The student will explore and analyze the creative and logistic problems encountered during all stages of a commercial photography assignment. Using standard pre- and post-production procedures, as well as photographic techniques learned in previous classes, the student will produce three photographic projects consisting of 5 to 10 images for each. Students should expect to pay for additional materials for this course.

Prerequisite: ENA/ENC/ENG101, HUA245

HUA280 Commercial Photography Seminar

3 credits; 3 hours

This course introduces the students to the day-to-day operations and business practices of the photographic industry. The professional responsibilities of photographers and photographers’ assistants will be explored in detail. Commercial self-promotion, including the creation of an appropriate portfolio, business card, and resume will be covered. The business, legal, and ethical dimensions of everyday activities within the industry will be discussed.

Prerequisite: ENA/ENC/ENG101, HUA145, HUA230

HUA291 Experiential Learning in Photography

3 credits; 16 hours (1 lecture, 15 lab)

This course provides students with a field based learning opportunity with a Photography faculty member. Under faculty guidance, students design, develop and complete a major creative project for exhibition or for other ways of sharing the project outcome.

Prerequisites: HUA 145

Students must have completed a minimum of 12 credits in the Commercial Photography program core, and must obtain permission from a Photography faculty advisor.

Studio Art

HUA103 Beginning Drawing

3 credits; 3 hours

This course is an introduction to drawing through basic examination of the visual fundamentals of line and mark making, texture, tone, value, space and form. Problems in descriptive drawing and ideas of abstraction are explored. Critique and group discussions are an important aspect of this course.

Prerequisite: ENA/ENG/ESA099, CSE099

Pre- or Corequisite: ESL099/ESR099

HUA104 Introduction to Design

3 credits; 3 hours

This course is an introduction to the fundamentals of design through an investigation of visual elements such as line, shape and composition. In this course, students develop designs in two-dimensional form. The design principles are discussed and illustrated as they relate to a number of visual arts forms.

Prerequisite: ENA/ENG/ESA099

HUA106 Three-Dimensional Design

3 credits; 3 hours

This course examines the principles of three-dimensional design. Students will develop individual designs based on formal elements such as line, shape, mass and volume. Techniques in construction and carving will be demonstrated and developed in plaster, wood, cardboard and metal. *Prerequisite:* CSE099 *Pre- or Corequisite:* ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

HUA110 Beginning Painting

3 credits; 3 hours

This course is an introduction to painting techniques related to landscape, still life and abstract composition. Emphasis is placed on color expression and color mixing. Individual and group critiques are required.

Prerequisite: ENA/ENG/ESA099

HUA115 Color Theory

3 credits; 3 hours

This course is an introduction to the theory and application of color in two-dimensional design. The basic principles of design are demonstrated in relation to the interaction of colors. Students develop two-dimensional designs through techniques in color mixing and collage.

Pre- or Corequisite: HUA104

HUA120 Beginning Sculpture

3 credits; 3 hours

This course is an introduction to sculpture. Problems in three-dimensional form are examined through various projects. Students gain experience with traditional and nontraditional processes of making sculpture. Critiques and group discussions are an important aspect of this course.

Prerequisite: ENA/ENG/ESA099

HUA150 Beginning Printmaking

3 credits; 3 hours

This course is an introduction to printmaking. Students work to produce original designs in relief and collagraph printing techniques. Operation of the printing press, registration, inking and other printing techniques in black and white and color are demonstrated. Edition printing and a final portfolio are required.

Prerequisite: HUA103

HUA180 Life Drawing

3 credits; 3 hours

In this course, students develop techniques of descriptive and interpretive drawing, with special emphasis placed on drawing the human figure from the live model. Textbook readings, studies in human anatomy, and sketchbooks are required.

Prerequisite: HUA103

HUA185 Illustration

3 credits; 3 hours

This course examines the interrelation of visual imagery and verbal themes as they relate to the professional field of illustration. Students develop a cohesive illustration portfolio as they solve problems relating to different aspects of the field, such as book, logo, or commercial illustration. Students create an artist's website on ePortfolio and learn the business aspects of illustration, such as copyrighting, pricing, and contracts, from demonstration and lecture.

Prerequisite: HUA103

HUA190 Technical Drawing

3 credits; 3 hours

This drawing course is designed to meet the needs of both art and pre-engineering students. It begins with the concept that technical drawing is a communicative tool and proceeds to explore the major areas of drafting. Students taking this course will develop a proficiency in multi-view projection and pictorial drawing by learning the proper use of basic drafting equipment.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

HUA203 Intermediate Drawing

3 credits; 3 hours

This course explores and expands upon the drawing techniques and concepts established in Beginning Drawing. Students concentrate on drawing objects and spaces from life and from their imagination. Individual drawing assignments and the development of a final art portfolio is emphasized. Fields trips are required. Critique and group discussions are an important aspect of this course.

Prerequisite: HUA103

HUA210 Intermediate Painting

3 credits; 3 hours

This is an intensive studio course that focuses on the advancement of painting skills and techniques as they relate to perceptual and aesthetic questions of painting and visual communication. Emphasis will be placed on the function of surface, color, style and process. We will familiarize ourselves with historic and contemporary painting. Preparatory sketches and plans are required for each assignment. Sessions include discussion, analytical critiques, readings and exhibition visits.

Prerequisite: HUA110

HUA220 Intermediate Sculpture

3 credits; 3 hours

This course explores and expands upon the sculpture techniques and concepts established in Beginning Sculpture. Personal expression, spatial thinking and tactile problem solving are investigated. Critiques and group discussions are an important aspect of this course.

Prerequisite: HUA120

Urban Study Courses

HUN110 Hip Hop; Music, Culture, and Politics

3 credits; 3 hours

This writing intensive course provides an introduction to the development of hip hop culture from a local trend on New York City streets to an international phenomenon. Students examine the social and political contexts and activism that shaped rap music through an engagement with NYC cultural sites.

Prerequisite: ENA/ENC/ENG101, MAT096/099

This is a Writing Intensive course.

HUN180 Introduction to Intercultural Communication

3 credits; 3 hours

The course introduces students to the dynamics of intercultural communications and enables them to communicate more effectively in multicultural settings. Through field trips, cultural research and role plays, students develop the skills needed to look objectively at other cultures. Using New York City as a laboratory, they gain experience identifying and analyzing dominant cultural patterns, thus improving their ability to understand the often perplexing behavior of people from cultures other than our own.

Prerequisite: ENA/ENC/ENG101, HUC101, and one Social Science elective from the list on page 192.

This is a Writing Intensive course.

HUN189 The Mediated City

3 credits; 3 hours

This course analyzes the various cultural, historical, ethnic, class and artistic dimensions of the urban environment through the lens of new media technologies such as digital maps, GPS, surveillance, and organization movements. Particular attention is given to creating maps of these new phenomena, from gentrification and tracking, to on-line reviews. The students then analyze these maps to think critically whether certain contemporary technological projects have turned out as designers planned.

Prerequisites: MAT 096 or MAT 117 or MAT 119, HUW112, ENG101

HUN190 Ethics and Society

3 credits; 3 hours

This course studies the ethical dimension of problems in the urban environment as these intersect philosophical concepts of freedom, identity, justice, and the good life. Students will explore, evaluate, and apply ethical theories to public policy debates of relevance to racial, class, and gender inequalities. Students will evaluate proposed solutions to these inequalities in terms of how well they contribute to flourishing relationships between people and sustainable relationships with the world at large.

Prerequisite: ENA/ENC/ENG101

HUN192 Art and Society

3 credits; 3 hours

This course examines the relationships among various art forms and the societies out of which they arise. The focus is to establish the connection between the human drive to create and the social attitudes which influence that creation and provide it with a context. Using the rich cultural resources of New York City, students will have the opportunity to explore characteristics and functions of art in other historical and cultural settings.

Prerequisite: ENA/ENC/ENG101

HUN195 Art in New York: A Museum/Gallery Seminar

3 credits; 3 hours

Through first-hand experience using the museums, galleries, critics, and collectors of New York City, students will examine the form and content of a multicultural range of painting, drawing, outsider art, craft, and sculpture. Museum and gallery visits, as well as a visit to a working artist's studio, will comprise major portions of this course. The class will discuss and write about the exhibits to explore the nature of art criticism.

Prerequisite: ENA/ENC/ENG101

HUN196 Film and New York City

3 credits; 4 hours

This course analyzes the various cultural, historical, ethnic, class, and artistic dimensions of New York in feature films such as *Musketeers of Pig Alley*, *Hester Street* and *Do the Right Thing*, as well as in selected documentary and experimental films. The course also situates New York City within the corporate production and exhibition histories of American film. Particular attention is given to films produced in New York over the last two decades and the images of the city they project.

Prerequisite: ENC/ENG101

This is a Writing Intensive course.

HUN212 Photography in New York

3 credits; 3 hours

This course will provide participants with a rich visual understanding of the art photography world in New York City as well as a deepened understanding of photography in contemporary art. Utilizing the cultural photographic resources of New York City, this class aims to enrich, engage, and critically examine the multidimensional world of photography and how it relates to U.S. experience in its diversity. We will view photographic exhibits and examine how they reflect issues in the U.S including but not limited to immigration, race, gender, class, sexual orientation, and ethnicity. We will examine the historical context of various photography exhibits and make connections between past and contemporary use with the intention of understanding the impact that this medium has had on visual culture and on the world. Visual literacy will be emphasized throughout the course. We will also visit contemporary photographic artist studios and get the opportunity to meet and ask questions of the artists.

Prerequisite: ENG 101

HUN245 The New York Theatre Experience*3 credits; 3 hours*

This course involves the study of current professional and semi-professional theatre in New York City. Students will be required to attend a series of Broadway, Off-Broadway, and Off-Off Broadway plays in order to compare their content, underlying aesthetic, concepts and production techniques. Plays may be seen on weekday evenings or weekend/weekday matinees. Students should expect to pay for theatre tickets. The class culminates around a solo-play that the students write individually that will coincide with a 10-page written research paper about how this play might be produced in New York City. There will be an option at the end to either act the play in class or do an oral presentation about the play's inspiration, genesis and ideal New York City production.

Prerequisite: ENC/ENG 101. This is a Writing Intensive course.

HUN191 Photojournalism: An Introduction*3 credits; 3 hours*

This course will explore photography as a journalistic tool, emphasizing the photograph as a recorder of newsworthy events. Students will be given assignments to use the photo-document as a narrative tool. The use of text as a complement to the images will be explored. The primary focus of investigation will be the multi-cultural urban center of New York City. Shooting assignments, field trips, a research paper, additional writing assignments required. 35mm camera or digital camera, additional materials required.

Prerequisite: HUA130

Pre- or Corequisite: ENA/ENC/ENG101

This is a Writing Intensive course.

Liberal Arts Departments

Education and Language Acquisition; English; Humanities; Mathematics, Engineering and Computer Science; Natural Sciences; and Social Science Departments

Liberal Arts Seminars**LIF101 First Year Seminar for Liberal Arts: Social Science and Humanities***3 credits; 4 hours (3 classroom, 1 lab)*

The First Year Seminar is required of all new students majoring in Liberal Arts: Social Science and Humanities. Its goals are to introduce students to the liberal arts, help students transition to campus culture, develop a better understanding of the learning process, and acquire essential academic skills. Taught by liberal arts faculty and supported by peers, advisors, co-curricular professionals, this course addresses issues related to contemporary college life and majors within liberal arts.

LMF101 First Year Seminar for Liberal Arts: Math & Science*3 credits; 4 hours (3 classroom, 1 lab)*

The First Year Seminar is required of all new students majoring in Liberal Arts: Math and Science. Its goals are to introduce students to the disciplines of Mathematics and Science, and to help students transition to campus culture, develop a better understanding of the learning process, and acquire essential academic skills. Taught by math and science faculty and supported by peers, advisors, and co-curricular professionals, this course addresses issues related to contemporary college life and the major.

LIB200 Humanism, Science and Technology*3 credits; 3 hours*

The Liberal Arts Seminar explores aspects of the relationship between humanism, science and technology. Students apply knowledge and critical strategies developed in other courses to significant contemporary and historical issues. The Seminar draws on texts from the Humanities, Arts, Social Sciences and Sciences as students explore ways developments in science and technology contribute to abuses as well as advances in civilizations. Students also reflect on the responsibilities of citizenship in a diverse society. As a capstone course, this seminar is designated writing-intensive.

Prerequisite: MAT096, ENG102, ENG103, and 33 credits

Note: ENG103 is waived for Fine Arts (511) majors only.

This is a Writing Intensive course.

Women and Gender Studies

LIB101 Introduction to Women, Gender and Sexuality Studies

3 credits; 3 hours

This introductory course offers a general overview of some of the basic concepts and theoretical perspectives from the field of Women, Gender, and Sexuality Studies (WGS). This course adopts a global, transnational, and post-structural feminist orientation. Students will critically engage with multiple frameworks which may include: conservatism, essentialism, liberal humanism, structuralism, constructivism, poststructuralism, intersectionality, and transnationalism.

Prerequisites: MAT096/099 ; ENG101

This is a Writing Intensive course.

LIB201 Transnational Feminisms

3 credits; 3 hours

Transnational Feminisms offers an introduction to the frameworks of transnational women's studies and gendered activism(s). This course surveys the field of transnational feminist research and praxis; locating structures of power, practices of resistance, and the geographies of development at work in a range of theories and social movements.

Prerequisites: CSE099; MAT096/099; ENG102; LIB101

Prelcorequisites: ENG103

Library Media Resources Center

Room E101 (718) 482-5426

Instruction in the use of library resources is a regular part of LaGuardia's educational program. Library faculty and classroom instructors arrange integrated lessons in which library presentations are tied in with class assignments to aid students in successfully completing their course work.

Department Faculty

Scott White, Chief Librarian; Thomas Cleary, Dianne Gordon Conyers, Francine Egger-Sider, Louise Fluk, Silvia Lin Hanick, Elizabeth Jardine, Charles Keyes, Galina Letnikova, Clementine Lewis, Ann Matsuuchi, Ian McDermott, Chris McHale, Eric Moy, M. Anne O'Reilly, Steven Ovadia, Alexandra Rojas, Derek Stadler

LRC102 Information Strategies

3 credits; 3 hours

This course is an introduction to the nature and use of information and information sources for study and problem-solving. Students will identify information needs and pose viable research questions; plan research strategies; access materials online and in person, in libraries and on the Internet; evaluate material found; and address ethical, legal, and socio-economic issues of the information age.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

Pre- or Corequisite: MAT096

LRC103 Internet Research Strategies

1 credit; 1 hour

This course is an introduction to the fundamentals of information studies. This course will teach the analytical thinking, problem-solving, and information literacy skills necessary for academic research and digital citizenship. Areas covered include an overview of the development of the internet, structure and function of information resources, and ethical, legal, political, and social-economic issues of the information age.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

LRC104, Information in a Globalizing World

2 credits; 2 hours

The growing interconnectedness of the world and the pervasiveness of the Internet have created an ease of access to all types of global information sources. In an international context of often contradictory opinions and ideas, retrieval and evaluation of information have become more complex. This course will teach students how to access and to evaluate information critically in order to engage with diverse perspectives of 21st century global issues.

Prerequisite: ENA/ENC/ENG101

LBN105 InfoCity: Informed Citizens in the Information Age

3 credits; 3 hours

The course explores how information is produced, organized, and distributed in the United States. Students learn research methods through the examination of New York City and federal data. Students learn to find, evaluate, and document text and multimedia for problem solving, inquiry and analysis. The class studies the socioeconomic, political, ethical and legal issues of information production, distribution, and usage in the United States, supported by field trips to government facilities.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

Pre-co requisite: MAT096

This is a Writing Intensive course



KRISTIAN LARROTA / LAGUARDIA COMMUNITY COLLEGE

Mathematics, Engineering and Computer Science Department

Room E218 (718) 482-5710

The Mathematics Department offers a great variety of courses to students at all levels: from basic arithmetic and algebra to linear algebra, calculus and differential equations. From these courses, students gain skills and confidence for advanced work while learning to apply their course work to other disciplines.

Department Faculty

Abderrazak Belkharraz, Chairperson; Emaan Abdul-Majid, Mercedes Acosta, Andrew Berry, Prabha Betne, Nana Osei Bonsu, Dmitriy Chebanov, Tao Chen, Steve Cosares, Gordon Crandall, Milena Cuellar, Marina Dedlovskaya, Walter DeLaTorre, Hendrick Delcham, Abdou Drame, Hassan El Houari, Abdellah Ait Elmouden, Reginald Eze, Jeanne Funk, Arnold Glick, Anthony Giangrasso, Luis Gonzalez, Nader Goubran, Kamal Hajallie, Yasser Hassebo, Omar Ait Hellal, Glenn Henshaw, Jerry Ianni, Alejandro Ibanez, Reem Jaafar, Abdelhamid Kadik, Praveen Khethavath, Alioune Khoule, Mangala Kothari, Bo Li, Mahdi Majidi-Zolbanin, Malgorzata Marciniak, Rudy Meangru, Gerald Meyer, Natalia Mosina, Lawrence Muller, Yves Ngabonziza, Muath Obaidat, Doyel Pal, David Peled, Jorge Perez, Yvonne Powell, Zahidur Rahman, Luis Rizo, Sandra Sze, Andi Toce, Yvens Valere, Lakshmi Iswara Chandra Vidyasagar, Frank Wang, Paul West, Dong Wook Won, Gene Yao, Yun Ye, Shenglan Yuan, Svetoslav Zahariev

ECF090 First Year Seminar for Engineering and Computer Science

0 credits; 1 hour

This First Year Seminar is for all new students intending to major in engineering and computer science. Students in these programs are required to take this course in order to learn the skills needed to acclimate to campus culture, develop a clear understanding of the learning process, and acquire the skills and habits of mind essential to an informed study of the discipline.

Computer Courses

CSF101 First Year Seminar for Computer Science

2 credits; 3 hours (2 lecture, 1 lab)

First Year Seminar for Computer Science is intended for freshman students who plan to major in computer programs, enabling them to make a smooth transition to LaGuardia and giving them insight into computer science majors. Students taking this course will acquire the skills necessary to acclimate to campus culture, develop a clear understanding of learning processes and develop the habits of mind essential to an in-depth study of the discipline.

MAC100 Computing Fundamentals

3 credits; 3 hours

This course introduces students from non-computer science majors to the fundamental concepts of computing, digital innovations, and social issues that are at the heart of computer-based technologies. Students will learn about the myriad uses of the Internet, cloud services, social media and other computer applications designed to connect physical and digital worlds.
Pre- or Corequisites: CSE099, ENA/ENG/ESA099/ENC101, MAT096/Placement

MAC101 Introduction to Computer Science

3 credits; 4 hours (2 lecture, 2 lab)

In this first course in the computer science program, emphasis will be placed on algorithmic design. Basic concepts such as selection statements, loops, character strings, arrays, pointers and file processing will be taught. Students will be required to write several programs in an appropriate language.

Prerequisite: CSE099, MAT200

Pre- or Corequisite: ENG099

MAC102 C++ for Engineers

3 credits; 5 hours

This course introduces students to the structure and operation of a computer, concepts and properties of an algorithm and a programming language, and the principles and practice of programming in the C/C++ programming language. The topics of study include data types, control structures, functions, recursion, arrays, parameter passing, pointers, strings, structures, classes, overloading, and file processing.

Prerequisite: MAT200

MAC105 Objective C Programming

3 credits; 3 hours

This course familiarizes students with important features of Objective-C, an object-oriented language based on the C programming language that is used to develop applications for Mac, iPhone, and iPad platforms. Topics include data types, expressions, and control of flow; classes, objects and methods; inheritance and polymorphism; C language features, such as arrays and functions; foundation framework, including number, strings, and collections; memory management; and Cocoa framework.

Prerequisite: MAC101 or MAC102

MAC108 Introduction to Programming with Python

3 credits; 4 hours (2 lecture, 2 lab)

This course is an introduction to programming using the Python language. An emphasis will be placed on algorithmic design; basic concepts such as variables, assignments and flow control (conditionals, loops, iterators and functions) will be introduced. More advanced topics such as strings, tuples, lists, dictionaries, files and classes will also be covered. Students will be required to write multiple programs in Python, and give an oral presentation of a research paper.

Pre/Co-Requisite Prerequisites: CSE099; MAT120 or MAT115; or MAT117 or MAT119 Pre/corequisites: ENG/ESA099/ENC101, ENA099

MAC109 Introduction to Visual C# Programming

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces programming concepts that include object-oriented design and GUI development. Software creation using a visual IDE and an object-oriented language such as Visual C# is featured. Various programming constructs such as loops, conditional statements, arithmetic and logic operations, objects, and features appropriate for use in modern application development are explored.

Prerequisite: MAC101 or MAC108

MAC110 Systems Analysis and Design

3 credits; 4 hours (2 lecture, 2 lab)

This course provides an introduction to Systems Analysis and Design. Topics include analyzing business cases, requirements modeling, data and process modeling, and developmental strategies with a focus on object-oriented modeling and project management. Students also explore user interface (UI) design, data design, systems architecture and implementation, and systems operation, support, maintenance and security.

Prerequisite: ENA/ENC/ENG101, MAC 101 or MAC109

MAC120 Introduction to Mobile Application Development

3 credits; 3 hours

This course will provide students with an understanding of the theory and skills required to design and develop applications for mobile devices. Topics include an overview of the mobile application development life-cycle, related issues and considerations, specific issues pertaining to public and enterprise distribution, mobile interfaces design, and building basic applications using both iOS SDK and Android SDK.

Prerequisite: MAC101

MAC125 Advanced C/C++ Programming

3 credits; 4 hours (2 lecture, 2 lab)

This course presents object-oriented algorithmic problem solving using C++. Topics include pointers and pointer arithmetic, linked lists, memory management, recursion, operator overloading, inheritance and polymorphism, stream and file I/O, exceptions and exception handling, templates and STL, applications of simple data structures and testing and debugging techniques.

Prerequisite: MAC101

MAC172 Web Development I

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces students to concepts and tools for creating front end web pages using HTML, CSS, JavaScript and JavaScript libraries. Students will be introduced to common industry approaches and practices; they will work in teams to create websites using version control tools. They will visit websites such as online newspapers, academic journals and cultural exhibitions; allowing them to explore perspectives, share insights and communicate ideas on a global scale.

Prerequisite: MAC101

MAC190 Object-Oriented Programming

3 credits; 4 hours (2 lecture, 2 lab)

This is an advanced programming course in the Computer Science option with focus on object oriented programming. Topics include classes, constructors, inheritance, superclasses, subclasses, interface, strings, graphics, graphical user interface, applets, dynamic data structures, threads and exceptions.

Students will write programs to implement userdefined classes.

Prerequisite: MAC101 or MAC108

MAC220 Application Development for Android Devices

3 credits; 4 hours (2 lecture, 2 lab)

This course will provide students with an understanding of the theory and skills needed to design and develop applications for Android devices using an Android development platform. Topics include Android development environment, application fundamentals, user interface designing including activity and intent class, view navigation, mapping/Geo positioning, camera applications, styles and database applications using SQLite.

Prerequisite: MAC190

MAC221 Application Development for iPhone/iPad

3 credits; 4 hours (2 lecture, 2 lab)

This course will provide students with skills needed to design and develop advanced applications for iOS devices. Topics include user interfaces; view navigation; page-based applications; iCloud; web views, map views, and storyboarding; camera applications; and database applications using SQLite.

Prerequisite: MAC120

MAC227 Introduction to Cryptography and Applications

3 credits; 4 hours (2 lecture, 2 lab)

This course is an introduction to cryptography and its history, introducing students to classical as well as modern concepts of cryptography. Topics covered include substitution, transposition, shared key cryptosystems (DES, 3DES, and AES), public key cryptosystems (RSA), key exchange, digital signatures, digital certificates, PGP, e-mail security, Secure Socket Layer and IPsec.

Prerequisites: MAT115/MAT117

Pre- or Corequisites: MAC108 or MAC101

MAC230 Comparative Operating Systems

3 credits; 4 hours (3 lecture, 1 lab)

This course is an introduction to computer operating systems including mainframe and microcomputer operating systems. Students will learn operating system concepts and command languages for several operating systems. Topics will include memory management, data management, job scheduling, spooling, I/O management, security and networking as it applies to various operating systems.

Prerequisite: BTC100, BTO155, ENA/ENC/ENG101, or MAC101

MAC232 UNIX Network Operating Systems

3 credits; 4 hours (2 lecture, 2 lab)

This course is an introduction to the UNIX operating system. It is designed to teach students how to effectively integrate UNIX utilities and system calls within network administration. Additionally, it will teach students how to customize workstations through the use of LAN management and administrative functions. Upon completion of this course, students may choose to take the SCO ACE certification exam.

Corequisite: MAC101 or MAC108

Prerequisite: CSE099, ENA/ENG099/ENC101

MAC233 Windows NT Network Operating System

3 credits; 4 hours (2 lecture, 2 lab)

This course will provide the student with a comprehensive knowledge of the Microsoft Windows NT operating system and network environment. Topics to be covered include an overview of the system architecture, the network environment, administration, security and optimization. Students will be in a computer lab to learn the skills needed to install and configure NT systems and workstations and servers. This course will prepare students to take the first Microsoft Certification Exam in Systems Engineering (MCSE).

Corequisite: MAC101 or MAC108

Prerequisite: CSE099, ENA/ENG099/ENC101

MAC237 Computer Security

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces students to different aspects of computer security. Topics include security fundamentals, user authentication mechanisms, access control, attacks, intrusion-detection, malicious software, malicious code and countermeasures, software security, operating system security, human resources security, application security, browser attacks and security principles, database security, SQL injection, security risk assessment and cloud security.

Prerequisites: MAC227

Pre- or Corequisites: MAC250

MAC241 Computer Electronics I

4 credits; 6 hours (4 lecture, 2 lab)

This is a course in the fundamentals of DC and AC electric circuit theory which will provide a basis for further study and concentration in computer repair and telecommunications. Among the topics to be considered are Ohm's Law, power, Kirchhoff's Laws, voltage divider rule, RC time constants, measurement techniques, and some basic electronic components such as resistors, capacitors and inductors. The laboratory work will include experiments using voltmeters, ammeters, oscilloscopes and breadboards. The student should expect to pay for additional materials for this course.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

Pre- or Corequisite: MAT241

MAC242 Computer Electronics II

3 credits; 4 hours (3 lecture, 1 lab)

This course is a continuation of Computer Electronics I. Topics covered include parallel resonance, high and low passive filter circuits, transformers, semiconductor structure,

diodes, BJTs, FETs, integrated circuits, power supply circuits, transistor amplifier circuits, operational amplifiers, oscillators and modulation and receiver circuits. This course will emphasize the laboratory construction and troubleshooting of these circuits. The student should expect to pay for additional materials for this course.

Prerequisite: MAC241

MAC245 Data Communication and Network Security

3 credits; 4 hours (2 class, 2 lab)

This course provides an introduction to data communications and networking technologies. Topics covered include fundamentals of networks, OSI model, networking protocols, signaling, cables, connectors and networking devices. It will also cover multiplexing, circuit and packet switching, IP configuration, network design, switching, routing, firewalls, network security and port configuration. This course prepares students to pass the CompTIA Network+ exam.

Pre- or Corequisite: MAC108 or MAC101

MAC246 Advanced Network Security

3 credits; 4 hours (2 class, 2 lab)

This course covers a wide variety of security topics such as threats, vulnerabilities, data and host security, access control, identity management, cryptography, attacks and defense mechanisms. Security policies and procedures will also be covered. Additional topics include firewalls, VPNs, NAC, switch and router security, intrusion detection and prevention, malware, file security and data defenses. The course will prepare students for the CompTIA Security + Exam.

Prerequisites: MAC245, MAC232 or MAC233

MAC247 Advanced Systems Security

3 credits; 4 hours (2 class, 2 lab)

This course presents advanced topics in systems security. Topics covered include, access controls, asset management, security controls, change management, patch management, risk management, security assessment activities, monitoring systems, network monitoring and control, secure device management, network-based security devices, endpoint device security, big data access control and application vulnerabilities, software-defined networks, and clustering.

Prerequisites: MAC237

MAC250 Database Concepts and Programming

3 credits; 4 hours (2 lecture, 2 lab)

This comprehensive course covers the concepts of data collection, organization, and retrieval. The understanding of data structures and the analysis of file organization techniques will be emphasized. The principles of database design, selection and management will be introduced. Students will be given extensive laboratory experience with programming using a database application package.

Prerequisite: MAC101 or MAC108

MAC252 Advanced UNIX System Administration

3 credits; 4 hours (2 lecture, 2 lab)

This course is a continuation of the UNIX Network Operating System course. It provides students with the practical skills

needed to serve as a UNIX system administrator. Topics include login scripts, user administration and security, operating system installation and maintenance, installation of patches and programs, and maintenance and troubleshooting of servers and workstations. Students are encouraged to take the UNIX Systems Administration certification exam.

Prerequisite: MAC232

MAC253 Advanced NT Systems Administration

3 credits; 4 hours (2 lecture, 2 lab)

This course is a continuation of the NT Operating Systems course. It provides the students with the practical skills needed to serve as an NT Administrator. Topics include profiles and policy editor, trust relationship between multiple domains, directory services, DHCP (Dynamic Host Configuration Protocol), IIS (Internet Information Services), WINS (Windows Internet Naming Service), and network monitoring. Students are encouraged to take the second certification exam offered by MCSE.

Prerequisite: MAC233

Beginning with the 2016-17 Academic Year, this course will be offered in the Fall II Session only.

MAC254 Advanced Windows & UNIX System Administration

4 credits; 5 hours (3 class, 2 lab)

This course provides students with the practical skills needed to serve as Windows and UNIX system administrators. Topics include installation and maintenance of Windows and UNIX servers, user administration and security, file system and folder permissions, DNS, LDAP deployment, Samba, NFS, login scripts, profiles and policy editor, directory services, DHCP, IIS, Apache, e-mail, printers, PowerShell, shell scripting, server and workstation troubleshooting, and network monitoring.

Prerequisites: MAC232, MAC233

MAC257 Digital Forensics

3 credits; 4 hours (2 class, 2 lab)

This course introduces the methods and technologies relevant to conducting a computer forensic investigation. Topics include collecting, analyzing, recovering, preserving and reporting forensic evidence. Students will learn how to retrieve data from a computer, and recover deleted, encrypted or damaged files; legal considerations and ethics will be covered as well. Various operating systems will be considered including Windows, Macintosh and Linux.

Prerequisites: MAC246, MAC237

Pre- or Corequisites: MAC254

MAC260 Introduction to Teleprocessing

3 credits; 4 hours (3 lecture, 1 lab)

This course examines the field of data transmission and how it is used to communicate with the computer. Topics covered include the nature of the communication links and of the hardware attached to them; common carriers and their services; and the configuration of data communication systems including a description of the codes, modems, terminals, software, and methods of line organization.

Prerequisite: MAC101 or MAC109

MAC265 Hardware and Software Interfacing

3 credits; 4 hours (3 lecture, 1 lab)

The course will introduce the design of computer systems that sense and interact in the physical world. Topics include microprocessors and their architectures, assembly language programming concepts such as integer arithmetic, conditional processing, procedures and strings. The relationship between software and hardware and how to program to interact with keyboard, mouse, disks memory, display and video processing will also be explored.

Prerequisites: MAC101 or 102 or 109 or MAC241

MAC270 Advanced Topics in Computer Science

3 credits; 3 hours

This course explores a current topic in computer science and technology. Topics will be selected from such areas as computer security, programming languages, web/mobile apps, AI, modeling, simulation, gaming, and high-performance computing. Students will explore the selected topic through lectures, readings, research, class discussions, and laboratory projects. Topics will be announced in advance.

Prerequisites: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096, MAC101 or 102 or 109 or 241

MAC272 Web Development II

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces students to advanced client side and server side web development. Special emphasis will be placed on adopting industry standard frameworks and content management systems for web development. Students will be introduced to PHP programming and Node.js for server side web development, and they will develop web programs to communicate with databases.

Prerequisites: MAC172, MAC250

MAC280 Game Programming

3 credits; 4 hours (2 lecture, 2 lab)

This course explores game development and programming. Students will study programming design of game engines, the application of a physics engine, collision detection, screen graphics, debugging, and publishing. Topics include utilization of game assets, camera lighting, terrain textures, character controls, security, artificial intelligence (e.g., path finding) and the application of a modern gaming engine. Student projects are a significant course component.

Prerequisite: MAC109

MAC281 Discrete Structures

3 credits; 3 hours

This course covers the mathematical concepts essential for continued study in computer science and related fields. The topics include algorithms, complexity of algorithms, introduction to number theory and its applications, mathematical induction and recursion, relations and functions, graphs and trees, and applications.

Prerequisites: MAC101, MAC231

MAC283 Computer Organization and Assembly Language

3 credits; 4 hours (2 lecture, 2 lab)

This course is intended for students interested in developing a background in hardware concepts. Topics covered include number systems, data representation, binary arithmetic, boolean algebra, combinational and sequential circuits, and an introduction to assembly language programming.

Prerequisites: MAC101 or MAC109

MAC286 Data Structures

3 credits; 4 hours (2 lecture, 2 lab)

This course presents fundamental abstract data types along with efficient implementations for each. Topics include linked lists, stacks, queues, priority queues, binary trees, binary search trees, heaps, AVL trees, n-ary trees, graphs, hash tables, sorting and searching, recursion and worst-case analysis.

Prerequisite: MAC125 or MAC190

Pre- or Corequisite: MAT281

MAC289 Computer Technology Project Lab

2 credits; 2 hours

This course reinforces the student's concepts of digital circuit-board fabrication for computer and communication devices through the construction of projects. Topics include: lab safety, reading schematic diagrams, PC board layout design and construction, components soldering and wirewrapping.

The student will also learn the techniques of troubleshooting the devices using the instruments provided by the laboratory. The projects will vary. The student should expect to pay for additional materials for this course.

Prerequisite: MAC261 or MAC292

MAC291 Computer Logic, Design and Implementation I

4 credits; 5 hours (3 lecture, 2 lab)

This course will teach students how a computer logic statement is converted into an actual circuit. Using binary notation and Boolean algebra, the student will analyze switching networks of logic gates. The circuits which are mathematically described will then be translated into wiring diagrams and implemented on logic trainers and/or prototype boards. The student should expect to pay for additional materials for this course.

Prerequisite: MAC241, MAT241

MAC292 Computer Logic, Design and Implementation II

4 credits; 5 hours (3 lecture, 2 lab)

Students will learn to analyze sequential networks. The use of flip-flops in circuits, such as binary counters, serial adders, parallel multipliers and code converters will be studied. Wave form analysis will be done in the lab using oscilloscopes and logic devices. The student should expect to pay for additional materials for this course.

Prerequisite: MAC291, MAT241

MAC293 Computer Repair and Network Maintenance

4 credits; 5 hours (3 lecture, 2 lab)

This course provides students with the knowledge needed to diagnose and repair stand-alone and networked personal computers. The course covers hardware, including disk drives,

mainboards, video boards, NICs, memory and modems; and set-up, diagnosis and repair of network connections, servers and workstations. Students will work with testing equipment such as oscilloscopes, patch boxes, LAN testers, wiring tools and software diagnostic tools. They should expect to pay for additional materials.

Prerequisite: MAC232 or 233

MAC295 Computer Architecture

4 credits; 5 hours (3 lecture, 2 lab)

This course is intended for students who are in the computer science program or for students interested in developing a background in hardware concepts. Topics covered include number systems, logic circuits, arithmetic circuits, flip-flops, registers, memories, sample designs of simple computers and an introduction to microprogramming. The student should expect to pay for additional materials for this course.

Prerequisite: MAC232 or MAC233 or MAC265

Engineering Science

MAE100 Computer-Aided Design

3 credits; 4 hours (2 lecture, 2 lab)

This course introduces the student to AutoCAD's friendly pull-down menus as a tool to create graphical representations of objects. The course covers introduction of dimensioning systems, fundamentals of orthographic views of real-world objects, and basic two-dimensional drafting techniques. The course includes the creation of three-dimensional objects and their modification by changing the rendering options, material and lighting properties. Views of assemblies and animations are also considered.

Prerequisites: ENA/ENG099, ENA/ENC101, MAT096 or MAT099

MAE101 Engineering Lab 1

1 credit; 3 hours (lab)

This is the first of two engineering laboratory courses. Students meet once a week and are introduced to engineering design through hands-on laboratory work using computer applications. They program a robot to perform a specific task and to carry out basic structural analysis. Additionally, they work in groups on design projects and are expected to use computers for documentation, data analysis, and maneuvering robots.

Prerequisite: MAT200 Corequisite: ENG259

MAE102 Electrical Drafting and Blue Print Reading

2 credits, 3 hours (1 classroom, 2 lab)

The objective of this course is to provide knowledge of blueprint reading as it relates to the architectural or building construction industry. The course covers the theory of orthographic projections, floor plans and elevation drawings, symbols and notations, scaling and dimensioning practices, reading blueprints for structural information and electrical/mechanical function drawings.

Prerequisite: MAE109

MAE106 Earth System Science and Engineering

4 credits, 6 hours (3 lecture, 3 lab)

This course is designed to provide students with an understanding of the earth on a global scale by studying its component parts or reservoirs (atmosphere, hydrosphere, geosphere, and biosphere), the interactions, linkages and dynamic equilibrium among these reservoirs in various time scales, and the effect of external forces on the earth as a system.

Prerequisite: ENA99/ENG99, MAT 200, SCC 201

MAE107 Manufacturing Processes

3 credits; 2 Classroom hours/ 3 Lab Hours

The goal of this course is to introduce students to general concepts in manufacturing. Different materials, tools and fabrication processes will be presented, with emphasis on the lathe and drilling, milling and grinding machines. Welding materials, techniques and symbols are introduced. Programming of Computerized Numerical Control (CNC) machines is also included, complemented with robotic programming for flexible manufacturing of components.

Prerequisite: HUA104

Pre- or Corequisite: ENA/ENC/ENG101, MAE100

MAE109 Introduction to Engineering

2 credits, 3 hours (1 classroom, 2 lab)

This is an introductory engineering course. Students are introduced to engineering design through hands-on laboratory work using computer applications. They are introduced to programming a robot to perform a specific task and to designing a digital clock. Additionally, they work in groups on design projects and are expected to use computers for documentation, data analysis, and for maneuvering robots.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

MAE110 Circuit Analysis I

3 credits, 4 hours (2 classroom, 2 lab)

This course introduces students to DC circuits. Topics include series, parallel, and series -parallel circuits, equivalent circuits, capacitive and inductive circuits, timing circuits, network theorems and measuring instruments. Laboratory experiments include bread boarding, measurement techniques and troubleshooting. The writing of laboratory reports is taught—and required.

Prerequisite: ENG259, MAE109, MAT115

MAE111 Circuit Analysis II

3 credits, 4 hours (2 classroom, 2 lab)

This course introduces students to analysis of AC circuits with sine-wave sources and R L C circuit components, covering phase shift, frequency response, power, and resonance in series and parallel circuits. Three-phase wye and delta circuits are also covered. Hands-on laboratory experiments are included.

Prerequisite: MAE110

Pre-corequisite: MAT200

MAE121 Instrumentation

2 credits, 3 hours (1 classroom, 2 lab)

The course introduces students to the techniques, equipment, and measurement procedures used by mechanical engineering technologists; they will acquire hands-on experience with electronics and measurement equipment such as oscilloscopes, breadboards, function generators, digital data acquisition systems, integrated circuits, strain gages, displacement meters, thermocouples, tachometers, dynamometers, filters, volume flow meters, velocity meters, pressure probes, and pressure transducers.

Prerequisite: MAE109, MAT201

MAE122 Electrical Measurements and Instrumentation

3 credits, 4 hours (2 classroom, 2 lab)

This course provides students with a basic understanding of electrical measurement systems, introducing them to the many varieties of meters, scopes and transducers available, their operating principles, strengths and weaknesses. Applications are provided, enabling students to select optimal meters, transducers, amplifiers, along with recording and readout devices in order to assemble a system for routine measurements of electrical phenomena.

Prerequisite: ENG259, MAE111

MAE190 Material Science

3 credits, 4 hours (2 classroom, 2 lab)

This course provides a broad introduction to the basic characteristics of engineering materials. The course will focus on the selection of metals, plastics, ceramics, and composites for mechanical design purposes, highlighting the relationships of structure, material properties, and material selection in the design/ manufacturing process. Student will perform laboratory experiments with mechanical testing equipment.

Prerequisite: ENG259, MAE109, MAT200, SCP101

MAE191 Statics and Strength of Materials

3 credits, 4 hours (2 lecture, 2 lab)

This course presents a theoretical, analytical, and practical approach to the concept of engineering statics and strength of materials—the foundations of machine and structural design. Students will develop basic knowledge and skills in critical thinking and engineering problem solving. Topics include: force and moment analysis, conditions for static equilibrium, properties of materials, stress-strain relationships, thermal stresses, geometric shapes and moments of inertia, and beam analysis.

Prerequisite: ENG259, MAE109, MAT201

MAE201 HVAC-Heating/Ventilating /Air Conditioning System

3 credits, 4 hours (2 lecture, 2 lab)

This course will train students to read and represent graphical concepts in the heating, ventilating and air conditioning field. They will learn to letter, draw line-work, use drafting instruments and standard HVAC representations, draw orthographic and isometric projections of HVAC equipment, and work with architectural, structural and lighting plans to lay out HVAC systems.

Prerequisite: ENG259, MAE109, MAT200

MAE207 Introduction to Thermodynamics for Technicians

3 credits, 4 hours (2 lecture, 2 lab)

This course provides an introduction to the concept of energy and the laws governing transfer and transformation of energy. Emphasis is placed on thermodynamic properties and the first and second law analysis of systems; integration of these concepts into the analysis of basic power cycles is also considered.

Prerequisite: ENG259, MAE109, MAT201

MAE208 Electromechanical Devices

3 credits, 4 hours (2 lecture, 2 lab)

The goal of this course is to provide upper-level engineering students with the methods of analysis of electrical machines and transformers; this will be achieved by developing equivalent circuits for machines and transformers such as DC generators and motors, alternators, transformers, polyphase induction motors, single-phase motors and synchronous motors.

Prerequisite: ENG259, MAE111

MAE209 Structural and Site Plans

3 credits; 4 hours (2 lecture, 2 lab)

This course provides graphical methods for conveying ideas and information related to civil engineering projects. Topics include manual and computer assisted drafting, functional planning, structural plans and details in steel and concrete and topographical mapping.

Prerequisite: MAC102

MAE211 Engineering Mechanics: Statics

3 credit; 3 hours

This course is designed to introduce students to the theory and applications of engineering mechanics – statics. Topics to be covered include equivalent systems of forces, resultants, distributed forces, equilibrium of rigid bodies, centroids, centers of gravity, fluid statics, moments of inertia and friction. Analysis of frames and machines, forces in beams, internal stresses and stability will also be considered. Vector algebra will be used where appropriate.

Prerequisite: MAT203, SCP231, MAE101

MAE213 Electrical Circuits I

3 credits; 3 hours

Students are introduced to the analysis of basic DC and AC circuits containing resistors, capacitors, and both independent and dependent sources of voltage and current. Voltage division and current division yield simplified analysis of resistors (impedances) in series and in parallel. Thevenin's and Norton's theorems are used to determine equivalent sub-circuits. Differential equation techniques are presented to simplify the analysis of AC circuits.

Prerequisite: SCP232, MAE101, MAT203

Prelcorequisite: MAT204

MAE217 Systems Analysis of the Earth

4 credits, 5 hours (3 lecture, 2 lab)

This course covers analysis and modeling of the Earth's cycles and systems including plate tectonics and climate change, incorporating underlying physical, chemical and biological principles. The Earth's physical and chemical properties will

be examined by means of extensive data analysis using software such as Excel and PowerPoint.

Prerequisite: MAE106, MAT201

Pre-or Corequisite: SCP231

MAE219 Thermodynamics I

3 credits; 3 hours

This course introduces students to basic physical concepts and applications of thermodynamics, and to their consequences for engineering processes and operations. Emphasis is placed on the First and Second Laws of Thermodynamics. Topics include properties of pure substances, basic principles governing transformations of energy, heat and work, behavior of mixtures of gases and vapors, and air conditioning. An introduction to cycles (Carnot, reversibility, power and refrigeration) is also presented.

Prerequisite: MAE101, ENG101, SCP232, MAT203, SCC201

Prelcorequisite: MAT204

MAE230 Senior Design Project

2 credits; 2 hours

This course will apply the knowledge acquired over the course of the entire engineering technician curriculum in order to solve an engineering problem. Stages include problem identification, engineering design parameters, exploration of solution requirements including development of specific metrics necessary to achieve customer satisfaction, concept generation and refinement and application of engineering knowledge to derive potential solutions to the problem.

Prerequisite: MAE208

Mathematics Courses

MAT095 Introduction to Algebra

0 credit; 6 hours (5 lecture, 1 lab)

(Equivalent to First Year Institute USM095)

The course has a problem solving approach that emphasizes the importance of mathematical reasoning in addressing real-world problems drawn from diverse disciplines. Topics include arithmetic (signed numbers, fractions, decimals and percents), elementary algebra (solving first degree equations, finding equations of lines, using rules of exponents), basics of geometry (area and perimeter) as well as numeracy (estimation, unit analysis). The course is intended for students with little or no algebra background.

Admission to the course is based on placement test scores.

Pre- or Corequisite: BTF101 or CJF101 or HSF090 or LIF101 or NSF101 or SYF101

MAT096 Elementary Algebra

0 credit; 6 hours (5 lecture, 1 lab)

(Equivalent to First Year Institute USM096 or USM097)

This course provides a careful treatment of elementary algebra, beginning with the line/linear equations, ending with quadratic

equations, and emphasizing the interplay between graphic and algebraic representations. Topics include graphing of lines, systems of linear equations, introduction to functions, rules of exponents, polynomial algebra, factoring, radical expressions, and the quadratic formula.

Prerequisite: MAT095 or MAT099 or Placement Score

Pre- or Corequisite: BTF101 or HSF090 or LIF101 or NSF101

MAT099 Fundamentals of Algebra

0 credit, 7 hours (4 lecture, 2 lab, 1 tutoring)

This course fulfills the CUNY Proficiency in Basic Skills Mathematics. It includes the following topics: operations on whole numbers, fractions and decimals, solving linear equations, operations on polynomials, graphing linear equations, finding slopes and equations of lines, solving systems of linear equations, factoring, simplifying radical expressions and solving quadratic equations.

Prerequisite: Placement

MAT103 Early Concepts of Math for Children

3 credits; 3 hours

This course combines theory with practical aspects of how children learn mathematics. Students learn how to help young children to develop numerical relationships and geometric patterns. This course is of particular value to Child Development majors, prospective elementary school teachers and parents.

Prerequisite: CSE099, MAT096

MAT104 Mathematics in Elementary Education

3 credits; 3 hours

This is the second course of a sequence devoted to the study of how children learn mathematics. The course examines the mathematics curriculum of the elementary school with an emphasis on how to teach it. Among the topics included are operations on rationals, geometry, measurement, and basic notions of statistics of particular value to prospective school teachers and paraprofessionals.

Prerequisite: MAT103

MAT106 Mathematics of Medical Dosages

2 credits; 2 hours

This course is designed for Nursing majors and will aid them in applying basic mathematical concepts to on-the-job situations. Students will learn the various techniques of calculations. These include conversions using metric, household and apothecary systems of measurement as well as the computational methods used in the preparation of oral medication, solutions, parenteral therapy and pediatric dosages.

Prerequisite: MAT096; Corequisite: SCR110

MAT107 Math in the Modern World

3 credits; 3 hours

This course introduces selected topics and techniques in mathematics that help solve quantitative problems arising in applications addressed in other fields of study. For each topic studied, emphasis will be placed first on the mathematical model and then on some significant applications. Inquiry into the applications will motivate problem-solving exercises requiring

constructs from areas such as algebra, geometry, probability and statistics, computer science, set theory and logic.

Prerequisite: MAT096 or placement

MAT108 Quantitative Literacy

3 credits; 3 hours

Students develop confidence with numerical information by performing measurements, manipulating data, completing writing exercises and making presentations. Current events are used in activities that help identify quantitative factors in situations, address uncertainty, and evaluate statements. Spreadsheets will be used for the creation, storage, manipulation, and conversion of data to information and to perform calculations. Students are expected to share their experiences using the Web and discussion forums.

Prerequisites: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

MAT115 College Algebra and Trigonometry

3 credits; 4 hours (3 lecture, 1 lab)

This course begins with a review of basic algebra skills such as factoring, solving linear equations and inequalities and proceeds to study polynomial, exponential, logarithmic and trigonometric functions. These functions will be used in applications involving simple mathematical modeling where students will engage in inquiry activities aimed at improving critical-thinking skills. A scientific calculator is required.

Prerequisites: MAT099/MAT096/Placement

MAT117 Algebra and Trigonometry

3 credits; 7 hours (6 lecture, 1 lab)

This course gives a thorough treatment of college algebra and trigonometry topics-linear, quadratic, rational, exponential, and logarithmic expressions/functions as well as basic right-triangle trigonometry and graphical properties of sine and cosine functions. Supporting topics from elementary algebra such as linear modeling, factoring, solving linear systems and quadratic equations, and operations with radical expressions are included. Instructional methods include lecture, group work and computer activities.

Prerequisite: MAT095 or placement exam

MAT119 Statistics with Elementary Algebra

3 credits, 7 hours (5 lecture, 2 lab)

This is a statistics course with algebra support using the Statway curriculum. The focus is on statistics (data collection, numerical and graphical representation of data, linear correlation and regression, discrete and continuous probability distributions, estimation, and hypothesis testing); relevant algebra topics such as fractions/ percents, linear equations in one and two variables and functional relationships are integrated, resulting in a collaborative, problem-based class.

Prerequisite: MAT095 or placement exam

MAT120 Elementary Statistics I

3 credits; 4 hours (3 lecture, 1 lab)

This course presents the fundamental concepts and computational techniques of elementary statistics. Topics studied include statistical graphs, measures of central tendency, standard deviation, percentiles, probability, binomial and normal distributions, confidence intervals, hypothesis testing, and linear correlation/regression. Students will use a statistical software package to obtain basic sample statistics and graphs for data analysis; a calculator may be used for routine computations

Prerequisite: CSE099, MAT096/MAT099/Placement

MAT121 Elementary Statistics II

3 credits; 3 hours

As a sequel to MAT120, this course develops the methods of statistical inference including experimental design, sampling, estimation, hypothesis testing and decision making.

Prerequisite: MAT120

MAT132 History of Mathematics

3 credits; 3 hours

This course presents the important theoretical developments in mathematics from antiquity to the end of the 16th century with particular emphasis on ancient Greek mathematics. Topics include origins of measurement and geometry, numeral systems, introduction to basic logic and mathematical proofs, the method of exhaustion and its applications, and elementary number theory.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101, MAT096

MAT200 Precalculus

4 credits; 5 hours (4 lecture, 1 lab)

This course is intended as a preparation for the study of calculus. Functions and their graphs are analyzed theoretically within a framework that emphasizes their roles in applied settings. Particular attention is paid to polynomial, exponential, logarithmic, and trigonometric models. Use of graphing utilities (computer algebra systems, scientific/non-graphing calculators, etc.) as analytical tools is emphasized; the online learning platform MyMathLab will be used.

Prerequisite: MAT115 or MAT117 or placement

MAT201 Calculus I

4 credits; 4 hours

This course is the first of a three-course sequence designed to provide students with an appreciation of the usefulness and power of calculus. The course covers the fundamentals of the differential calculus of elementary functions and includes an introduction to integral calculus. Among the topics studied are limits, derivatives, applications of the derivative and integrals.

Prerequisite: MAT200

MAT202 Calculus II

4 credits; 4 hours

This is a course designed to provide students with an appreciation of the usefulness and power of calculus. Emphasis will be placed on the application of calculus to various

disciplines. Among the topics studied are the definite integral, area, formal integration and applications of integration.

Prerequisite: MAT201

MAT203 Calculus III

4 credits; 4 hours

This is the third course in the calculus sequence and is designed to build upon the concepts and techniques of MAT201 and MAT202 and provide a more rigorous conceptual grounding for the entire sequence. Topics include 3-dimensional analytic geometry and vector analysis, calculus of functions of several variables including limits and continuity; partial derivatives; maxima and minima; Lagrange multipliers; double, triple, line and surface integrals; Curl and Divergence; and Green's, Stokes' and Divergence Theorems.

Prerequisite: CSE099, MAT202

MAT204 Elementary Differential Equations

4 credits; 4 hours

This course considers selected problems and mathematical models which generate ordinary differential equations. Both numerical and analytical methods will be used to obtain solutions. Geometrical interpretation of differential equations will be emphasized, and where feasible, solutions utilizing computer methods will be explored. Topics also include boundary-value problems, linear systems, and Laplace Transforms. Applications to classical mechanics and electric circuits will be examined.

Prerequisite: MAT202; Pre- or Corequisite: MAT203

MAT210 Linear Algebra

3 credits; 3 hours

This course is designed to introduce students to the theory and applications of algebraic structures by focusing on the solutions of systems of linear equations. The algebraic properties of these solutions will be analyzed and generalized in the theory of vector spaces. Matrices will be treated both as computational aids and as objects possessing algebraic structure in their own right. Major applications will be developed, including project(s) on various topics using linear algebra techniques and computer software.

Prerequisite: MAT201 or MAT242

MAT212 Linear Algebra and Vector Analysis for Engineers

3 credits; 3 hours

This course serves as an extension of the traditional calculus sequence and contains additional topics relevant to students majoring in engineering. Topics include matrix algebra, systems of linear equations and Gaussian elimination method, determinant of a matrix, eigenvalues and eigenvectors, parametric curves and surfaces, arc length, line and surface integrals, fundamental theorem for line integrals, curl and divergence, Green's theorem, Stokes' theorem and divergence theorem.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

Pre-corequisite: MAT203 or equivalent

MAT221 Introduction to Probability

4 credits; 4 hours

This course is an introduction to the theory of probability. The topics studied are basic theorems of probability, permutations and combinations, discrete and continuous random variables, univariate and multivariate probability distributions, jointly distributed random variables, independent identically distributed random variables, moments, moment-generating functions, the central limit theorem, laws of large numbers, confidence interval, hypothesis testing, chi-square methods, and simple linear regression.

Prerequisite: MAT203

MAT230 Introduction to Discrete Mathematical Structures

4 credits; 4 hours

This course covers mathematical concepts essential for continued study in computer science and related fields. Topics of study include: set theory, propositional calculus and rules of reasoning, algorithms and complexity, elementary number theory including applications, recursion, counting principles with applications and graph theory.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096; Pre- or Corequisite: MAT201

MAT231 Introduction to Discrete Mathematics

3 credits; 3 hours

This course introduces students to the foundations of discrete mathematics. The topics of study include propositional logic, methods of proof, set theory, relations and functions, mathematical induction and recursion, and elementary combinatorics.

*Prerequisites: CSE099, ENA/ENG099, ESA099, ENA/ENC101
Corequisite: MAT201*

MAT241 Technical Mathematics I

4 credits; 4 hours

This course helps students to appreciate the usefulness of mathematics in today's technical world. The concepts of college algebra and trigonometry are presented with emphasis on their applications in science and technology. Topics include analytic geometry, trigonometry, exponential and logarithmic functions and their graphs, system of linear equations, matrices and complex numbers.

Prerequisite: MAT096

MAT242 Technical Mathematics II

4 credits; 4 hours

This is the second course in the Technical Mathematics sequence. Scientific methods of differential calculus are developed and applied to solving practical problems. Topics include differentiation and integration of algebraic, exponential, logarithmic and trigonometric functions, curve sketching, rectilinear motion, extrema, area and volume.

Prerequisite: MAT241

Natural Sciences Department

Room M204 (718) 482-5940

Department Faculty

Maria Entezari, Chairperson; Zenia Afroz; Amit Aggarwal; Ian Alberts; Sherouk Alzeory; Jacqueline Brashears; Olga Calderon; Alfredo Cifuentes; Claudette Davis; Sarah Durand; Maria Entezari; James Frost; Ana Lucia Fuentes; Xin Gao; Daniel Gertner; Janet Gonzalez; Sana Gul; Richa Gupta; Tonya Hendrix; Joby Jacob; Sultan Jenkins; Albert Jimenez; Alex Jones; Charles Keller; Amish Khalfan; Lily Leon; Kevin Mark; Kenya McCalmont; Philippe Mercier; Dionne A. Miller, Howard Motoike; Jaime Nieman; Sidney Noelle; Thomas Onorato; Holly Porter-Morgan; Preethi Radhakrishnan; Nelson Roman; Roman Senkov; Allyson Sheffield; Cristina Sicchio; Sunaina Singh; Joshua Tan; Benjamin Taylor; Trevor Taylor; John Toland; I-Hsien (Midas) Tsai; Ingrid Veras; D. Priyantha Wijesinghe; Na Xu; Boris Zakharov

First Year Seminar

NSF101 First Year Seminar for Natural Sciences

2 credits; 3 hours (2 lecture, 1 lab)

This First Year Seminar is required of all new students in any of the majors offered by the Natural Sciences Department. Its goals are to help students transition to campus culture, develop a clear understanding of the learning process, and acquire the skills and dispositions essential to the study and practice of science. Taught by NS faculty and supported by peers, advisors, and co-curricular professionals, this course addresses issues related to contemporary college life and majors within the natural sciences.

Internship

SCI204 Research in Natural Sciences

3 credits; 11 hours (1 lecture, 10 lab)

Research in Natural Sciences provides students with the opportunity to apply knowledge and skills gained in science courses by undertaking laboratory and/or field based research projects. Directed by a faculty mentor, students will engage in a research project in an area relevant to the interests and goals of the Natural Sciences Department. Students will be required to dedicate 10 hours per week to their projects as well as 1 hour per week for in-class instruction with the faculty mentor.

Prerequisites: SCB201 or SCC201 or SCP201, ENG102, MAT115, 36 credits completed, departmental permission

Biology

SCB101 Topics in Biological Sciences

3 credits; 3 hours (2 lecture, 1 lab)

This course serves as an introduction to biology for the non-science majors. It will cover topics such as basic chemistry, cell structure and function, genetics, biotechnology, anatomy and physiology, evolution, and ecology. The scientific method and application of quantitative techniques, data analysis, interpretation and presentation will also be covered.

Prerequisites: CSE099, ESA099, MAT096

SCB102 Biological Drawing

3 credits; 3 hours (1 lecture, 2 lab)

This course introduces students to biological diversity and form, primarily through the medium of drawing. The course deals mainly with small organisms that require microscopic examination and therefore students will learn the basics of microscopy and techniques for drawing objects using a microscope. Scientific drawing must be accurate as well as aesthetically pleasing. On completing the course students will be able to produce publication-quality scientific illustrations of a wide range of biological specimens.

Prerequisites: CSE099, ENA/ENG/ESA099, MAT096

SCB103 Human Biology in Health and Disease

3 credits; 3 hours (2 lecture, 1 lab)

This one-semester course provides students with an overview of the structure and function of the human body. The anatomy and physiology of the following organ systems will be discussed: cardiovascular, respiratory, nervous, gastrointestinal, immune and reproductive. Each of these systems will be considered under normal conditions as well as under disease conditions. Contemporary health issues will also be discussed. The laboratory component of the course will involve simulations in a computer lab.

Prerequisites: CSE099, ENA/ENG/ESA099, MAT096

SCB115 Principles of Biology

4 credits; 6 hours (3 lecture, 3 lab)

This is a one-semester laboratory-based course in biology stressing general concepts and amplifying them through a study of the human organism. The scientific method of thinking will be emphasized. Topics will include biological chemistry, cell structure and function, classical and molecular genetics, evolution and ecology, and homeostasis will be explored in the context of human biology. Laboratory exercises will include chemical analyses of nutrients, microscope slides and dissection of the fetal pig.

Prerequisites: CSE099, ENG099, MAT096

SCB165 Vertebrate Evolution

3 credits; 3 hours

This is a one semester lecture course that surveys the anatomy, systematic, evolution, life histories, behavior and ecology of the Vertebrata or back-boned animals. Topics include the diversity, classification and evolution of vertebrates, radiation of the Chondrichthyes, the major radiation of fishes, synapsids and sauropods, the lepidosaurs, Mesozoic diapsids, avian specializations, the Synapsida and the evolution of mammals, mammalian specializations, and Primate evolution and the emergence of humans.

Prerequisites: CSE099, ENG099, MAT096

SCB201 General Biology I

4 credits; 6 hours each (3 lecture, 3 lab)

This course is part one of a two-semester sequence covering concepts of general biology. Beginning with an introduction to the scientific study of life, the course covers the chemistry of life, cell structure and function, cellular respiration, photosynthesis, cell cycle and cell division, classical and molecular genetics and gene expression, DNA replication, genetic engineering, development, evolution, speciation and phylogeny. The laboratory component of the course complements the lectures.

Prerequisites: CSE099, ENA/ENG/ESA/099/ENC101, MAT099

SCB202 General Biology II

4 credits; 6 hours each (3 lecture, 3 lab)

This course is part two of a two-semester sequence covering concepts of general biology. It begins with a survey of organismic diversity, from prokaryotes and viruses to the major eukaryotic groups, including protists, land plants, fungi and animals. Structure and function in animals is examined, including homeostasis, osmoregulation, excretion, nutrition, gas exchange, circulation, electrical and chemical signals and reproduction. The course also covers ecology. The laboratory portion complements the lectures.

Prerequisite: SCB201

SCB203 Human Anatomy and Physiology I

4 credits; 6 hours (3 lecture, 3 lab)

Part one of a two semester introduction to human anatomy and physiology that examines the relationships between structure and function of organs and organ systems in the maintenance of normal function in the whole organism. The lab includes experimental activities, microscopy and gross anatomy. Dissections and clay modeling will be used to study select organ systems. Lecture topics include the integumentary, skeletal, muscular, cardiovascular, respiratory, lymphatic and immune systems.

Prerequisites: CSE099, ENG099, MAT096

SCB204 Human Anatomy and Physiology II*4 credits; 6 hours (3 lecture, 3 lab)*

Part two of a two semester introduction to human anatomy and physiology that examines relationships between structure and function of organs and organ systems in the maintenance of normal function in the whole organism. The laboratory includes experimental activities, microscopy and gross anatomy. Rat dissections will be used to study select organ systems. The major organ systems covered include the nervous, endocrine, digestive, urinary and reproductive systems.

*Prerequisite: SCB203***SCB206 Introduction to Neuroscience***3 credits; 3 hours (2 lecture, 1 lab)*

This course is devised as an introduction to neuroscience and is intended for students interested in exploring the biological basis of human behavior. Students taking this course will learn about the structure and physiology of the nervous system from the function of cells to the function of the brain. The course will provide an overview of normal sensory, motor, memory, learning and emotional processes, pharmacological influences, and will incorporate discussions of various cognitive and behavioral dysfunctions.

*Prerequisites: CSE099, ESA/ENA/ENG099, MAT096***SCB208 Vertebrate Anatomy and Physiology I***3 credits; 4 hours (2 lecture, 2 lab)*

This course, the first part of a two-course sequence, introduces students to the anatomy and physiology of vertebrates, with an emphasis on domestic animals. Topics include the chemistry of life, histology, body organization and the structure and function of the following organ systems: integumentary, skeletal, muscular and endocrine. In the laboratory student have the opportunity to dissect representative vertebrate animals.

*Prerequisite: SCV101 or SCB202, Pre/Corequisite: SCC110***SCB209 Vertebrate Anatomy and Physiology 2***3 credits; 4 hours (2 lecture, 2 lab)*

This course is a continuation of Vertebrate Anatomy and Physiology 1. Major organ systems are discussed while emphasis is placed on mammalian anatomy and physiology. In the laboratory, students have the opportunity to view these systems through the dissection of a cat.

*Prerequisite: SCB208***SCB252 Fundamentals of Biotechniques***3 credits; 3 hours (2 lecture, 1 lab)*

Students will participate in authentic undergraduate research experiences to learn techniques commonly performed in a biological laboratory, such as micropipetting, isolation and quantification of nucleic acids and proteins, Polymerase Chain Reaction (PCR), immunodetection and gel electrophoresis. Students will also learn about data analysis, responsible conduct of research, communicating science and reflect on the impact of biotechniques on society.

*Prerequisites: ENG101, MAT112 or MAT115, SCB201, SCC201***SCB255 Cell Biology***4 credits; 6 hours (3 lecture, 3 lab)*

This is a one-semester laboratory-based course stressing essential aspects of cell biology. Cell structure and function will be introduced. Topics to be covered include, but are not limited to, membrane transport, protein sorting, vesicular trafficking, cytoskeletal components, how cells read the genome, signal transduction, cancer, apoptosis, and stem cells. Students will conduct authentic undergraduate research projects involving cell culture.

*Prerequisites: ENG102, SCB202, SCB252, SCC202***SCB260 General Microbiology***4 credits; 6 hours (3 lecture, 3 lab)*

This course introduces students to microorganisms found in nature, industry and disease. Topics covered include virology, bacteriology, immunology, epidemiology, pathology and other related areas of microbial physiology. The laboratory will deal with the isolation and identification of common pathogenic and non-pathogenic organisms utilizing techniques of staining, culturing, fermentation reactions and microscopic inspection. The lab sessions will reinforce and emphasize lecture material.

Prerequisite: SCB202 or SCB204 or SCB209

Chemistry

SCC101 Topics in Chemistry*3 credits; 3 hours (2 lecture, 1 lab)*

This course serves as an introduction to chemistry. The complex connections between chemistry and society are explored through applying chemical principles to real world issues, such as air quality, energy and water use through interactive classroom lectures, discussions and laboratory exercises. Topics include measurements, atoms, the Periodic Table, ionic and molecular compounds, stoichiometry, energy, acids and bases in the context of social issues.

*Prerequisites: CSE099, ENA/ENG/ESA099, MAT096***SCC102 Chemistry of Photography***3 credits; 4 hours (2 lecture, 2 lab)*

This course serves as an introduction to chemistry through an exploration of the underlying chemical principles of black and white photography. The course material will be delivered through interactive classroom lectures, discussions, and laboratory exercises. Topics include the definition and classification of matter, atomic theory, bonding, structure and properties of silver halide crystals used in photographic film, and the role of oxidation-reduction and acid-base reactions in photographic development.

Prerequisites: CSE099, ENA/ENG/ESA099, MAT096

SCC110 Foundations of Chemistry*4 credits; 6 hours (3 lecture, 3 lab)*

This one-semester chemistry course addresses the needs primarily of allied health students. Topics include measurement and significant figures, atomic structure, elements and compounds, chemical reactions, stoichiometry, solutions, acids and bases, classification of simple organic compounds according to functional groups, and biomolecules such as carbohydrates, lipids and proteins. The laboratory component is designed to illustrate the fundamental laws and techniques of general chemistry.

Prerequisite: CSE099, ENA/ENG/ESA099, MAT096

SCC201 General Chemistry I*4 credits; 6 hours (3 lecture, 3 lab)*

This course is the first part of a two-semester sequence covering concepts of general chemistry. It is intended for students planning to major in science or engineering who require one year of chemistry. Among the topics studied are atomic structure, chemical bonding and reactivity, quantitative relationships in chemical reactions, thermochemistry, and gases.

Prerequisite: CSE099, ENA/ENG/ESA099, MAT115 or MAT117

SCC202 General Chemistry II*4 credits; 6 hours (3 lecture, 3 lab)*

This course is the second part of a two-semester sequence covering concepts of general chemistry. It is intended for students planning to major in science or engineering who require one year of chemistry. Among the topics studied are: liquids, solids, solutions, acid-base theory, chemical kinetics, chemical equilibrium, chemical thermodynamics, electrochemistry and nuclear chemistry.

Prerequisite: SCC201

SCC251 Organic Chemistry I*5 credits; 7 hours each (3 lecture, 4 lab)*

This is the first part of a two-semester sequence in organic chemistry, covering the synthesis, structure, reactivity and mechanisms of reactions of organic compounds. The course will include a systematic study of alkanes, alkenes, alkynes, alkyl halides, alcohols, thiols, stereochemistry, substitution reactions and elimination reactions. The laboratory stresses the synthesis, purification, separation and identification of organic compounds.

Prerequisite: SCC202

SCC252 Organic Chemistry II*5 credits; 7 hours each (3 lecture, 4 lab)*

This is the second part of a two-semester sequence in organic chemistry, dealing with the synthesis, structure, reactivity and mechanisms of reaction of organic compounds. The course will include a systematic study of alcohols, ethers, aldehydes, ketones, carboxylic acids, amines, heterocycles and biomolecules. The laboratory stresses the synthesis, purification, separation and identification of organic compounds.

Prerequisite: SCC251

Environmental Science**SCG120 Introduction to Oceanography***3 credits; 3 hours*

This course serves as an introduction to oceanography. It will explore the basic physical, chemical, biological and geological processes of the world's oceans. Topics will include the formation and evolution of oceans, coastal interactions, waves, tides and marine biology, with a consideration of human impact on marine environments.

Prerequisites: CSE099, ENA/ENG/ESA099/ENC101, MAT096

SCG150 Introduction to Geographic Information Systems*4 credits; 6 hours (3 lecture, 3 lab)*

This course covers the entire Geographic Information Systems production process from data acquisition and modeling to editing, analysis and cartographic output. Lectures will introduce the theory of GIS science and laboratory classes will familiarize students with GIS software needed to accomplish the course objectives. The course will use data collected by students participating in the Newtown Creek analysis project, among other data sources, for a final mapping exercise.

Prerequisites: ENG101, MAT096

SCG250 Environmental Science*4 credits; 6 hours (3 lecture, 3 lab)*

Environmental Science is the capstone course of the Environmental Science Program. The course integrates biological, chemical and physical concepts with experiential service-learning. Understanding the earth as a dynamic system and addressing local environmental issues will be emphasized. Lab and field analysis of locally-collected water, soil or air samples will be conducted as part of an authentic research project.

Prerequisites: ENG/ENA/ENC101, SCG150

Corequisites: SCB260, SCC202

SCB265 Fundamentals of Ecology*4 credits; 6 hours (3 lecture, 3 lab)*

This course is a comprehensive introduction to ecology. Students will be introduced to the kinds of questions asked by ecologists, the principal concepts and theories that guide ecological inquiry and the methods that are used to answer ecological questions. Particular emphasis will be paid to population, community and ecosystem level processes and both terrestrial and aquatic systems will be considered. The practical component of the course will include laboratory exercises and field work.

Prerequisite: SCB202, SCC202

SCN140 Wild New York*3 credits; 4 hours (2 lecture, 2 hours lab)*

The goal of this course is to introduce students to the habitats and ecological communities in New York City's urban environment and the processes that have produced them. While emphasizing observational natural history, the course will encourage students to ask questions that can be addressed in a scientific manner. Through lectures, field trips and lab exercises, students will develop an appreciation of the value of the city's biodiver-

sity and the ecological impact of human activity in the urban environment.

Prerequisites: ENA/ENC/ENG101, MAT096 or MAT119

This is a Writing Intensive course.

Physical Sciences

SCP101 Topics in Physics

3 credits; 3 hours

This survey course, for nonscience majors, covers foremost concepts in physics. Subjects included are Newtonian mechanics; conservation of energy; atomic theory, electrostatics and electricity; wave motion; light; and modern physics. Although mathematical formulas are used when necessary, the emphasis is on understanding the concepts. The principles studied are applied to analyze and understand topics ranging from energy conservation and global warming, to photocells and optical fibers.

Prerequisites: CSE099, ESA/ENG/099, MAT096

SCP105 Life in the Universe

3 credits; 3 hours

This class explores the possibility that life exists elsewhere in the Universe. To investigate this topic, it is necessary to define what we mean by life and then discuss its origins and evolution. Topics covered in the course include identifying potential worlds where life could thrive, the properties of stars that could host habitable worlds, interstellar travel, and the search for extraterrestrial intelligence.

Prerequisites: CSE099, ENA/ENG099, ESA099, ENC101, MAT096

SCP140 Topics in Astronomy

3 credits; 3 hours (2 lecture, 1 lab)

This course surveys modern astronomy with special emphasis on recent developments in space and astrophysics. Among the topics to be covered will be planetary astronomy and geology, the moon, the possibility of life on other worlds, energy production in stars, stellar evolution, pulsars, quasars, "black holes," and cosmology. Laboratory periods will include field trips to planetariums and observatories in the N.Y.C. area.

Prerequisites: CSE099, ENA/ENG/ESA099, MAT096

SCP160 Foundations for the Physical Sciences

3 credits; 3 hours

This course focuses on the principles of physics and chemistry that form the foundation for college-level, one-year courses in these disciplines, as well as in biology, that are typically gateway offerings for many careers. Subjects covered include measurements and uncertainties, vectors, mechanics, energy, atomic theory, stoichiometry and chemical thermodynamics. The course is intended for students who have not taken chemistry and physics in high school or those who require a review of the covered subjects.

Prerequisites: CSE099, ENA/ENG/ESA099, MAT096

SCP201, SCP202 Fundamentals of Physics I and II

4 credits; 6 hours each (3 lecture, 3 lab)

Fundamentals of Physics I and II are together a two-semester sequence covering the basic laws of physics with an emphasis on laboratory experience and mathematical solutions of problems. This is a basic course for students intending to continue their studies in the physical and biological sciences, since more advanced courses in the natural sciences assume knowledge of this material. Among the topics studied are: SCP201: The basic concepts of mechanics; kinematics; Newton's gravitation; conservation of momentum and energy; heat, emphasizing the kinetic theory; and electrostatics (charge, forces, fields, electrical energy.) SCP202: The basic concepts of electrodynamics (currents and magnetism, electromagnetism); optics (wave theory, lenses); and modern physics (relativity, atomic theory, quantum mechanics.)

Prerequisites for SCP201: CSE099, ENA/ENG/ESA099, MAT096

Prerequisite for SCP202: SCP201

SCP210 Science Research Skills Seminar

2 credits; 3 hours (1 lecture, 2 lab)

This course provides students interested in scientific research the quantitative and analytical skills necessary to apply for research opportunities in material science. Students will attend talks by researchers in material science and carry out independent experimental projects to prepare them for work in a typical research setting. At the end of the course students will prepare a resume in consultation with faculty and visiting speakers in order to apply to summer programs in materials research.

Prerequisites: ENG102, MAT200 *Pre- or Corequisites:* SCB201 or SCC201 or SCP201 or SCP231, 36 credits completed, departmental permission

SCP211 Research Methods in Physical Science

3 credits; 3 hours

This course will serve as the capstone course for the physical science major for both the physics and chemistry tracks. The course will focus on developing the skills necessary to work in a physics or chemistry research lab. Students will attend talks by researchers in a physical science field such as chemistry or physics and carry out independent experimental projects to prepare them for work in a typical research setting. Students will work on guided and independent lab projects throughout the semester.

Prerequisites: ENG102

Pre- or Corequisites: SCC202 or SCP231

SCP231 General Physics I*4 credits; 6 hours (3 lecture, 3 lab)*

This is the first part of a computer-based physics course intended for students who want to major in science, computer science or engineering. Computers will be used in the laboratory in conjunction with traditional equipment for problem solving, data collection, and analysis. Topics covered include vectors, Newton's laws, equilibrium, rectilinear motion, two-dimensional motion, gravitation, Kepler's laws, work and the work-energy theorem, rotational motion, simple harmonic motion, the physics of fluids, and heat. This course is the first course in a two course calculus-based physics sequence (SCP231-232).

*Prerequisite: CSE099, ENG099, ESL098, MAT201***SCP232 General Physics II***4 credits; 6 hours (3 lecture, 3 lab)*

This is the second part of a computer-based physics course intended for students who want to major in science, computer science or engineering. Computers will be used in the laboratory in conjunction with traditional equipment for problem solving, data collection and analysis. Topics covered include waves, wave motion, light propagation, geometrical optics, interference and diffraction, electric field and potential, capacitance and dielectrics, magnetic fields and forces, direct and alternating current, Ohm's law and electromagnetic waves. This course is the second course in a two-course sequence (SCP231-232)

*Prerequisites: MAT202, SCP231***SCP233 Introduction to Modern Physics***4 credits; 6 hours (3 lecture, 3 lab)*

This course is a continuation of the General Physics sequence. Students will be introduced to the two main paradigms of 20th century (modern) physics, Einstein's theory of relativity and quantum physics. The course will explore the limitations of classical physics within the framework of the scientific method and trace the development of modern physics. In the laboratory part of the course students will perform simulations that demonstrate the properties of modern physics.

*Prerequisite: SCP232 with C or better grade,**Pre- or Corequisite: MAT203*

Social Science Department

Room C459 (718) 482-5785

Social Science courses examine why people behave the way they do; why society is the way it is; who has power, wealth, and prestige; and how they got them. Many of the courses emphasize the themes of ethnicity, class, gender, and power through which students can better understand themselves, society, and the world in which they live. The department offers interdisciplinary courses as well as courses in anthropology, economics, history, political science, psychology, sociology and urban study.

Department Faculty

Bojana Blagojevic, Chairperson; Lakshmi Bandlamudi, Darren Barany, Hara Bastas, Lara Beaty, Nathan Bernstein, Vanessa Bing, John Chaney, Lorraine Cohen, Rebio Diaz Cardona, Timothy Coogan, Colleen Eren, Corey Feldman, Camila Gelpi, Nurper Gokhan, Tomoaki Imamichi, Andreas Karras, Vincent Andre Keeton, Jill Kehoe, Robin Kietlinski, Solomon Kone, Choon-Shan Lai, Steven Lang, Richard K. Lieberman, Arianna Martinez, Janet Michello, Karen Miller, Sreca Perunovic, Joanne Pierre-Louis, Dusana Podlucka, Joanne Reitano, Shara Sand, John Shean, Nichole Shippen, Lily Shohat, Lisa Silverman, Filip Stabrowski, Rebecca Tally, Eduardo Vianna, Henry Alexander Welcome, Jennifer Wynn

Anthropology

SSA100 Introduction to Anthropology*3 credits; 3 hours*

In this course, students will be introduced to the fields of anthropology-physical anthropology, archaeology, cultural anthropology, and anthropological topics in linguistics. The aim shall be to explore the origins and development of some of the world's hunter-gatherer, agricultural, peasant and industrial societies. Utilizing examples from both extinct and modern-day societies, the student will gain an appreciation of the wide diversity of human cultures.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***SSA101 Cultural Anthropology***3 credits; 3 hours*

This course examines the similarities and differences found in the various types of human cultures and societies. It acquaints students with the basic concepts that help explain differences and similarities. The role of culture and language in determining human behavior is examined as is the interrelationship of aspects of behavior (economics, politics, family, and religion) in different types of societies. Patterns of cultural change will also be discussed.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSA103 Introduction to Archaeology*3 credits; 3 hours*

This course provides an overview of the rapidly expanding field of Archaeology. Modern archaeological theories, the various disciplines of Archaeology, field techniques and the future of Archaeology will be covered. Emphasis will be placed on the history of the field, how modern archaeology varies from its earlier processes, and how archaeology relates to the various fields of social and natural sciences. Instruction will include both guided and assigned field trips.

Prerequisites: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

SSA106 Anthropology of Latin America*3 credits; 3 hours*

This course will focus on the different peoples and cultures of Latin America, including Indian groups, rural communities of peasants, blacks and other plantation workers, urbanized peasants, urban workers, new middle classes and elites. The social and cultural organization of each of these groups will be examined, particularly in their relationship to the larger society. The impact of the global economy on Latin American cultures will also be examined.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSA120 Peoples and Cultures of the Caribbean*3 credits; 3 hours*

This course will survey the evolution of cultures in the Caribbean from the original formation of Native American societies through the age of European conquest, colonization and cultural dominance, to the contemporary period of national independence, and the revival of previously marginalized, subordinated cultures. The focus will be on analyzing the unique Caribbean economic, family, stratification, political, and cultural systems formed out of the fusion of Native American, European, African and Asian peoples and cultures.

Prerequisite: ENA/ENC/ENG101

SSN182 Urban Anthropology*3 credits; 3 hours*

This course examines urban culture and society in different parts of the world. It includes an examination of the role cities play in different societies, urbanization in developing societies, and a comparison of urban society and culture in developing societies with urban life in the United States. Field trips to sites in New York City such as new immigrant communities will be included to familiarize the students with recent changes in urban culture. *Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective from the list on page 192. This is a Writing Intensive course.*

Criminal Justice**CJF101 First Year Seminar for Criminal Justice***3 credits, 4 hours (3 lecture, 1 lab)*

The First Year Seminar is required of all new students majoring in Criminal Justice and transfer students with less than 15 credits. Special topics in Criminology and Criminal Justice are taught in conjunction with college transition skills. Themes may include any subject in Criminology and Criminal Justice, e.g. wrongful convictions, mass incarceration or the death penalty, along with critical thinking skills, active learning and eportfolio.

SSJ101 Introduction to Criminal Justice*3 credits; 3 hours*

This course provides an introductory survey of the American criminal justice system and its four key components: police, courts, corrections and the juvenile justice system. It will introduce students to the definition, measurement and causes of crime. General issues for consideration will include the role of discretion in the administration of criminal justice, due process, and contemporary challenges in the American criminal justice system.

Pre- or Corequisite: CJF101

SSJ201 Criminology*3 credits; 3 hours*

This course explores the nature, causes and treatment of behavior defined as criminal with an emphasis on classical and contemporary theories. The biological, social, psychological and environmental theories underlying crime and deviance are explored, as well as current approaches to punishment, treatment and prevention.

Prerequisite: SSJ101

Pre- or Corequisites: ENA/ENC/ENG101

SSJ202 Corrections and Sentencing*3 credits; 3 hours*

This course examines the policies and practices of the criminal justice system following the arrest and conviction of a crime, including correctional law. The historical development of correctional institutions and sentencing ideology are discussed, as well as the functions of agencies that provide correctional supervision: probation, jails, prisons and parole. In addition, major trends and controversies in contemporary correctional practice are explored.

Prerequisite: SSJ101

Pre- or Corequisites: ENG/ENA/ENC101

SSJ203 Policing*3 credits; 3 hours*

This course examines the historical development, present organization and multiple functions of policing. Readings will examine key areas in policing including: recruitment and training; stress and hazards of policing; police subcultures; methods of policing; the role of discretion; criminal investigation; legal concerns; police accountability; ethics and corruption; community policing and police-minority relations.

Prerequisite: SSJ101

SSN204 Crime and Justice in Urban Society*3 credits; 3 hours*

This course examines critical issues concerning crime and justice in urban settings. Some issues are current and topical, applying to the contemporary urban crime scene; others have continued through modern history. Themes explored include fear, crime and the city; social disorganization; prisoner reintegration; policing, gangs and gun control; and drug laws. This course will be a writing intensive with an experiential component.

Prerequisite: SSJ101, SSJ202, SSJ203, ENG102

Pre- or Corequisite: ENG103

Economics**SSE103 Introduction to Microeconomics***3 credits; 3 hours*

This course will study price determination and distribution under alternative market structures as well as government intervention in the market. A comparison of the market economy to alternative systems will also be examined.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

SSE104 Introduction to Macroeconomics*3 credits; 3 hours*

This course will examine what determines the aggregate level of economic activity. The levels of production, employment and prices will be studied in relationship to aggregate expenditures. Institutional arrangements of monetary and fiscal policy to address unemployment and inflation will also be covered.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

SSE105 International Economics*3 credits; 3 hours*

This course introduces students to the allocation of resources in the world economy. Specifically, students will examine how capitalist and socialist countries manage their resources. In addition, students will learn about major issues in international trade and finance, economic development in third world countries, pollution and the environment, defense spending, and the economics of energy.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT096

SSE125 World Geography*3 credits; 3 hours*

The course studies the influence of physical features and climates of the world on human activities, production, distribution, and other economic activities. Emphasis is placed on the location and distribution patterns of the world's resources and their uses. Topics studied include urban geography, geopolitics of oil and gas, and preparation and interpretations of maps by physical features and cultural aspects.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

SSN189 The Urban Economy*3 credits; 3 hours*

This course examines key economic problems facing cities and urban neighborhoods, particularly those of New York City. The students will study how supply and demand, land use, taxation, national product, unions and state and federal policies affect the local economy. Through visits in their neighborhoods, and such places as the Office of Economic Development and the Stock Exchange, students will apply the above concepts to local issues of employment, housing, transportation and business activity.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective from the list on page 192. This is a Writing Intensive course.

History**SSH101 Themes in American History to 1865***3 credits; 3 hours*

This course will focus on the major themes in American History from the colonial period to the Civil War. Topics such as slavery, women's roles, expansion, urbanization, reform movements, and the development of the American character will be examined in this course.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSH102 Themes in American History Since 1865*3 credits; 3 hours*

This course examines the social, political, economic and cultural history of the United States from the end of the Civil War (1865) to the present. Students will consider the changing nature of the American state, and of politics. They will also examine changes in ideas about race, class, immigration, gender, sexuality, cities, media, culture, rights, nationality, radicalism, and conservatism, among other topics. Students will be asked to analyze and interpret historical phenomena.

Pre- or Corequisite: ENA/ENC/ENG101

SSH103 Western Civilization from Ancient Times to the Renaissance*3 credits; 3 hours*

This course investigates the main features of human civilization from ancient times to the Renaissance. The importance of geography, religion, custom and ideology are explored for the purpose of capturing the spirit of the past as well as understanding its relationship to the present.

Pre- or Corequisite: ENA/ENC/ENG101

SSH104 Western Civilization from the Renaissance to Modern Times*3 credits; 3 hours*

This course discusses the major ways in which Western society has changed since the Renaissance to present. It covers the Scientific Revolution, the Industrial Revolution, and the major political revolutions. It also explores the impact of ideas such as liberalism, Marxism, Darwinism, Nazism, and Freudianism. The two World Wars and prospects for peace are examined.

Pre- or Corequisite: ENA/ENC/ENG101

SSH105 World History from Ancient Times to 1500*3 credits; 3 hours*

This course is an introduction to world history from the earliest human records to 1500 CE. Students will use primary and secondary sources to develop a comprehensive understanding of the political, social, religious, cultural, and economic history of humanity. Emphasis will be placed on the comparative development of complex societies and on the interactions among different peoples in the ancient world.

*Pre- or Corequisite: ENA/ENC/ENG101***SSH106 World History from 1500 to the Present***3 credits; 3 hours*

This course is an introduction to world history from approximately 1500 CE to the present. Students will read primary and secondary sources related to the political, economic, social, and cultural history of humanity in the modern era, including such topics as the development of the nation state, industrialization, world trade, imperialism, democratic, socialist, and nationalist revolutions, the position of women in society, population growth, and changes in the human environment.

*Pre- or Corequisite: ENA/ENC/ENG101***SSH110 East Asian Civilization and Societies***3 credits; 3 hours*

This course uses primary and secondary sources to examine the historical development of East Asian societies from the origins of civilization to the present day. Using thematic and chronological approaches, the course considers the cultural, religious, philosophical, and political phenomena that have shaped China, Korea, and Japan. Throughout the course, students will gain an appreciation for the growing political and economic influence of this region in the world today.

*Pre/Corequisite: ENA/ENC/ENG101***SSH113 Modern Chinese History***3 credits; 3 hours*

This course examines Chinese history from the beginning of the Qing Dynasty (1644) to the present. Students will become familiar with modern Chinese history, learning in the process the context of current news and views on China. We will consider the effects of Western and Japanese imperialism, including key events that led to China becoming the world's largest communist nation. The reemergence of China on the global economic stage after over a century of economic and humanitarian disasters will be examined.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***SSH114 Modern Japanese History***3 credits; 3 hours*

This course will cover the history of Japan from the beginning of the Tokugawa era (1600) to the present, with the goal of providing a comprehensive understanding of the political, economic, and sociocultural changes that occurred during this period. Throughout the course we will consider such themes as isolationism, fascism, imperialism, democracy, minorities, capitalism and gender in the context of modern Japan.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***SSH121 Ancient Greek Civilization***3 credits; 3 hours*

This course is a survey of Greek civilization from prehistoric times through the Roman era. Discussion will focus on cultural developments and literature, art and architecture, mythology and religious beliefs, social and political organization and the family, gender roles and the idea of the individual, and political events. Emphasis will also be placed on the interaction of Greeks with neighboring cultures and the lingering influence of Hellenic civilization on our own time.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101***SSH122 History of the Roman State and People***3 credits; 3 hours*

This course is a survey of the history of the Roman state from its origins as an Italian city-state to the demise of the western empire in the fifth century CE with an emphasis on the evolution of Roman law and political institutions, warfare and military organization, social and demographic change, economy, daily life, family life and the role of women, religion and the rise of Christianity, sports and leisure, literary and cultural achievements, and the continuing influence of Roman civilization on our own time.

*Prerequisite: CSE099, ENA/ENG/ESA099/ENC101***SSH131 Latin American History 1***3 credits; 3 hours*

This course is an introduction to the history of Latin America from the initial encounters of peoples from Africa, Iberia and the Americas, through the movements for independence in the early 19th century. Course topics include the economic and social organization of the colonies, intellectual currents and colonial science, native accommodation and resistance to colonial rule, trade networks and imperial expansion, labor regimes and forms of economic production, and migration and movement.

*Pre/Co-Requisite Prerequisites: CSE099; ENG099; ENA/ENC101***SSH132 Latin American History 2***3 credits; 3 hours*

This course surveys Latin American history from the late eighteenth century to the 1990s. Topics include wars of independence, challenges of nation-state formation, economic development, industrialization, labor, race, art, populism, dictatorship, and revolutionary movements. The course also focuses on the role of the United States in regional affairs, including neo-colonialism in Panama and the Caribbean, coups in Guatemala and Chile, and violence in Central America.

Prerequisites: CSE099; ENG099; ENA/ENC101

SSH151 Women and Gender in U.S. History*3 credits; 3 hours*

This course is a survey of women's history in the United States. It also examines the changing meanings of gender in American history. In other words, the course will explore women's experiences at the same time that it will examine how ideas about femininity, masculinity, families, sexuality, sex, and other pertinent categories of identification have changed over time.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSH153 History of the United States and World Affairs*3 credits; 3 hours*

This course examines US foreign policy and international relations from the country's founding to the present. It will trace the United States' growth from a small Atlantic republic to a vast empire spanning the continent and the world. It will analyze economic, intellectual and political contests over and consequences of US foreign policy; examine the methods used to extend the nation's borders, commerce and influence; and explore the effects of global engagements on the nation's values and institutions.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSH171 The World Since 1900*3 credits; 3 hours*

This course is a survey of World History from 1900 to the present day. Among the issues to be explored will be the two world wars, revolution, capitalism, globalization, imperialism, national liberation, modernization, Marxism, fascism, and the struggle for universal human rights and social justice.

Pre/Co-Requisite: CSE099; ENG099/ENA/ENC101

SSH231 African American History*3 credits; 3 hours*

An introduction to the African American struggle against slavery and the racist oppression of the United States. Special attention is given to the ways African Americans have claimed agency over their lives and reshaped American society through the following: activism and political organizing; family and kinship formations; and cultural practices and institution building. Lessons will include the ways gender, class, sexuality, and other identities further shape the African American experience.

Pre/Corequisite: ENA/ENC/ENG101

SSH232 Survey of Latin America and Caribbean History*3 credits; 3 hours*

This course is a general introduction to Latin American and Caribbean history, from the initial encounters of people from Africa and Iberia with the "New World," through the independence movements of the 19th century, the development of nation states, and the rise of mass politics in the twentieth century. Through lectures, discussions, and assigned readings, the course examines the social, political, economic, and cultural aspects of Latin America and the Caribbean over five hundred years.

Pre- or Corequisite: ENA/ENC/ENG101

SSN183 History of Minorities*3 credits; 3 hours*

This course focuses on the experiences of and challenges to minorities in the United States. It examines changing patterns of the immigration, settlement, and employment of various minority groups including Afro-Americans, Irish-Americans, Hispanic-Americans and Asian-Americans. In addition, the situation of the Native Americans, women, gays and the aged will be discussed in an historical context.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective from the list on page 192. This is a Writing Intensive course.

SSN240 History of New York City*3 credits; 3 hours*

This class examines New York City as a complex, multiracial, multi-class, social, political, and cultural space. It considers histories of the city from first contact between European settlers and Native Americans in the sixteenth century to the present. It is an urban studies course and is writing intensive. It will also include at least two field trips.

Prerequisite: One Social Science elective

Pre- or Corequisite: ENA/ENC/ENG101

Political Science**SSP101 U.S. Power and Politics***3 credits; 3 hours*

This course analyzes the relationship between the theory, form, and practice of American government. The course studies the strengths and weaknesses of the American political system. A major concern of the course is the nature of power in America and the options for reforming the American political system.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSP200 Global Politics*3 credits; 3 hours*

This course will investigate the dynamics of global politics among nation states and other actors in global affairs. After an introduction to the international system and globalization, the class will study major international relations theories and use them to analyze current and past events in global politics. The course will explore various global issues including war, terrorism, genocide, security, peacebuilding, development, human rights, free trade etc. Students will focus on case studies of their choice.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSP220 Politics of Latin America and the Caribbean*3 credits; 3 hours*

This course will examine the major groups which seek power in Latin America and the Caribbean, and analyze the various strategies they use including revolution, populism, democratic reform, socialism and military authority. The prospects for modernization will be drawn from a variety of Latin American

and Caribbean countries. The course includes discussion of the role of foreign nations in the politics of this area.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

SSP240 The Politics of Crime and Punishment in the U.S.

3 credits; 3 hours

This course will examine the political context of crime and punishment in the United States. As such, it will investigate the relationship of crime, punishment, society, and politics. The course will present a systemic and critical analysis of the political economy of law, criminal justice, mass incarceration, militarization of police, the wars on crime, drugs, and terrorism and their impact upon civil liberties and human rights.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSP245 Law and Human Rights in America

3 credits; 3 hours

This course will focus on the legal aspects of human rights issues in America. Starting with the origins of democracy and the Bill of Rights, students will explore major Supreme Court cases and Constitutional amendments dealing with such topics as freedom of speech, freedom of the press, freedom of religion, the right to vote, equality before the law, and the rights of the accused. Controversial contemporary issues such as abortion, privacy, and gun control will also be discussed in a legal context.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSP250 Political Ideas and Ideologies

3 credits; 3 hours

This course explores the relationship between political ideas and practice. Political ideologies such as liberalism, conservatism, socialism, and liberation ideologies (feminist, black and gay/lesbian) are examined in their historical development. The relationship between their goals and the methods used to achieve them is analyzed and criticized. The relevance of these ideologies for understanding current political issues is discussed. Readings include original theories of politics as well as commentaries upon them.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101

SSN190 Leadership

3 credits; 3 hours

This course explores alternative leadership theories and styles. It focuses on leadership within the urban context and on the importance of New York City figures such as Boss Tweed, Fiorello H. LaGuardia and Shirley Chisholm. Special reference will be made to the particular leadership problems presented by cities. The course will include speakers and field trips to centers of leadership in New York City, either on the citywide or community level, in the public or private sector.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective from the list on page 192.

This is a Writing Intensive course.

SSN192 Practical Politics in New York City

3 credits; 3 hours

This course examines New York City as a unique political entity within the context of urban politics in America. It explores the roles of elected officials, community boards, unions, minority groups and business interests in political decision making. The course includes guest speakers and field trips.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective from the list on page 192.

This is a Writing Intensive course.

SSN210 The Politics of Sexuality

3 credits; 3 hours

This course explores how urbanization and socioeconomic development have made sexuality a political issue. Topics are discussed from a cross-cultural perspective and include separation of sexuality from reproduction, AIDS, alternative definitions of family, the extent of personal freedom as compared with social control of sexual expression and others. Special attention is given to how these topics are addressed through feminist, religious, gay/lesbian and other movements. At least two field trips are required.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective from the list on page 192. *This is a Writing Intensive course.*

Psychology

SYF101 First Year Seminar for Psychology

3 credits, 4 hours (3 classroom, 1 lab)

The First Year Seminar is required for new students majoring in Psychology. Its goals are to introduce students to psychology and develop critical thinking that allows them to compare and contrast theoretical approaches in relation to research relevant to student success, such as learning, identity, and motivation.

Taught by psychology faculty and supported by peers, advisors, co-curricular professionals, this course addresses issues related to navigating personal development and academic achievement in psychology.

SSY101 General Psychology

3 credits; 3 hours

This course is an introduction to some of the major fields and theories in the science of psychology, covering a range of topics such as biological foundations, learning, cognition, emotion, perception, theories of personality, psychological disorders and their treatment and the research methods of psychology.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

SSY105 Learning and Education: Childhood to Adolescence*3 credits; 3 hours*

This course examines the principles in child development from birth through adolescence, and explores how cognitive, emotional, physiological and social changes impact learning. The role of culture, family, race, class and environment will serve as the framework for understanding development and its importance for how children learn. Students will be taught research and child observation methods and how to apply these tools in diverse educational and community settings. 25 hours of classroom observation required.

*Prerequisite: ENA/ENC/ENG101***SSY200 Personality***3 credits; 3 hours*

Theories, methods, and selected issues in the field of personality will be discussed in the context of achieving greater self-awareness and insight into the behavior of others. Among the topics discussed are: psychoanalytic, behavioristic and phenomenological theories of personality types and traits, the achievement of self-knowledge, psychological testing, and personality research methods.

*Prerequisite: SSY101***SSY203 Experiential Learning in Psychology***3 credits; 3 hours*

Experiential learning provides a framework for the application, synthesis, and concretization of theories and concepts taught in psychology. Directed by a faculty mentor in the discipline, students will engage in research or a project, directly related to the goals of the psychology program. Students will be required to dedicate 10 hours per week to their projects, as well as 1 hour per week, for in-class instruction with a faculty mentor.

*Prerequisites: ENG102, ENG103, MAT112, SSY101***SSY205 Psychology of Women***3 credits; 3 hours*

This course will critically examine gender bias and gender exclusion in research and theory in psychology. The topics will include interconnections between biology and gender, focusing on the psychological factors of menstruation, sexuality, pregnancy, childbirth, motherhood, abortion and menopause. The course will focus on the experiences of women of different racial and ethnic backgrounds and examine how these biological functions shape their identity. Throughout the course, students will critically examine the social and political contexts that define women's bodies and familiarize themselves with critical feminist consciousness.

*Prerequisite: SSY101***SSY230 Abnormal Psychology***3 credits; 3 hours*

This course introduces the major categories of psychological disorders and the diagnostic systems, DSM-V and the ICD-10. Disorders covered are psychotic, mood, anxiety, personality disorders and child and adolescent disorders. Theoretical and treatment perspectives will be examined focusing on inquiry and problem solving so to enhance scientific inquiry and critical thinking skills.

*Prerequisite: SSY101***SSY240 Developmental Psychology I***3 credits; 3 hours*

This course will address the theories of development while providing critical review of the relevant empirical data from conception to adolescence. It covers various domains of development in the growing child — physical, cognitive, social and emotional realms. Implications for parenting and schooling will be discussed within a cultural-historical context.

*Prerequisite: SSY101***SSY241 Developmental Psychology II***3 credits; 3 hours*

This course examines the biological, psychological, and social changes in adults and the principles underlying these changes.

The course explores such topics as social sex roles, self-identity, self-esteem, worker productivity, ideas and values. Students will learn about adult life crisis issues such as marriage, divorce, mid-life crisis, menopause, unemployment and aging.

*Prerequisite: SSY101***SSY250 Social Psychology***3 credits; 3 hours*

This capstone course examines how the individual's personality is affected by the influences of other people and the physical and social environment. Understanding how people develop and form attitudes, conform to expected group behaviors, and make various decisions will guide the focus of this course. Students will explore tools of psychological research and inquiry and will be exposed to key topic areas including social perception, conformity and persuasion.

*Prerequisite: ENG102, SSN280 or SSN184, SSY230***SSY260 Group Dynamics***3 credits; 3 hours*

This is an introduction to the theory, research and practice of group dynamics, and small group interaction in a variety of settings. Methods and techniques utilized in the investigation of small group processes will be demonstrated and critically examined. Through participation in role playing and small group interaction, students will be introduced to basic principles of interpersonal and group dynamics in families, in groups, and at work.

*Prerequisite: SSY101***SSN184 Environmental Psychology***3 credits; 3 hours*

This course explores the relationship between the urban physical environment and human behavior. Topics to be considered include the effects of personal space, noise, crime, crowding, architectural design and urban blight on the actions and feelings of urban dwellers. Two field trips in this course will be based on research projects aimed at understanding behavior in such urban settings as subways, parks and neighborhoods.

*Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective from the list on page 192.**This is a Writing Intensive course.*

SSN280 Urban Black Psychology*3 credits; 3 hours*

This course introduces students to the psychology of Black people in America. Through an analysis of African American life in America, this course examines the psychological, social, economic, and historical experiences of Black people in urban environments. Topics include the impact of slavery on the individual and family, issues in urban education, the effects of prejudice and racism on health, social movements, policing and community violence, and wellness concerns in the Black community.

Prerequisite: MAT 096 or MAT 099 or MAT 117 or MAT 119, Any Social Science course, ENA/ENC/ENG101

Sociology**SSS100 Introduction to Sociology: Contemporary Society***3 credits; 3 hours*

This course provides an introduction to sociology: the study of groups, relationships between groups, and how belonging to a group impacts behavior and social status. It examines class, race, ethnicity, gender, and sexuality; and how group memberships intersect. This course analyzes social institutions such as culture, religion, education, governments, and the family. In addition, this course covers the history of sociology, sociological theories, and sociological methods.

Prerequisite: CSE099, ENA/ENG/ESA099

SSI210 Women in Society*3 credits; 3 hours*

The course will examine the role of women in society from historical and cross-cultural perspectives. It will examine women's psychological issues, economic functions, and their relationships to social institutions. The debates surrounding women at work, women in politics and women's movements will be discussed.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101, SSS100 or SSB110

SSN103 Introduction to Labor and Community Organizing*3 credits; 3 hours*

This course introduces social science perspectives on the theory and practice of labor and community organizing within the urban environment. Students analyze case studies that focus on struggles within a local and global context shaped by different kinds of social inequality including class, race, ethnicity, gender, age and sexual orientation. Students will learn about new models of organizing, and organizing as a career. The class will go on urban field trips and role-play organizing skills.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective.

This is a Writing Intensive course.

SSN186 Sociology of the Black Community*3 credits; 3 hours*

This course is about the social dynamics of Black communities in urban America. With special reference to New York City, it examines the socialization process, the family, education and organizational life within urban Black communities. Current problems and future prospects for the urban Black community are discussed. Field trips to communities such as Harlem and Bedford Stuyvesant are included.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective from the list on page 192. This is a Writing Intensive course.

SSN187 Urban Sociology*3 credits; 3 hours*

This course provides an introduction to urban sociology, the study of how group life impacts and is impacted by cities. It covers the origin and growth of cities around the world and the social factors that lead to changes in cities, such as immigration and job opportunities. This course examines how city life affects class, race, ethnicity, gender, culture, neighborhoods and communities. It also employs field trips to analyze urban issues such as crime, education, housing, and politics.

Prerequisite: ENA/ENC/ENG 101

SSN/ENN193 Ideal Societies*3 credits; 3 hours*

This course is designed to help students understand utopian movements in urban society from historical, psychological and sociological perspectives. This course will focus on both the causes for creating utopian experiments and the ways in which utopias approach family structure, religion, education, power and economic organization. Literary versions of utopian communities will be studied. Field trips may be taken to such places as Roosevelt Island and Shaker Village.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, and one Social Science elective from the list on page 192

This is a Writing Intensive course.

SSN194 Religion and Social Change*3 credits; 3 hours*

This course will trace the evolution of traditional and non-traditional religions among various groups within the New York City religious community. The course will focus on Latin groups and Eastern religions as well as social action projects sponsored by mainline major denominational groups. Field interviews by students will be made.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099, and one Social Science elective.

This is a Writing Intensive course.

SSN202 Environmental Sociology*3 credits; 3 hours*

This course examines sociological perspectives on the environment. It will explore how humans interact with and help to shape the environment. Special emphasis will be placed on the role that economics, politics, culture, science and technology play in urban environmental affairs. It will also apply basic sociological concepts such as social class, gender, race and ethnicity, inequality and conflict to environmental issues within urban settings.

Prerequisite: CSE099, ENA/ENG099, ESA099, ENA/ENC101, MAT095 or MAT099

This is a Writing Intensive course.

SSS102 Social Movements*3 credits; 3 hours*

This course examines the political and cultural conditions and processes involved in the formation and functioning of social movements. Social movements are understood as the organized, collective efforts of people to influence the direction of social change. Against the background of a broad historical and cross-cultural perspective, emphasis will be on social movements in the USA, including the labor movement, the civil rights movement and the women's movement. There will be at least two field trips.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101 and SSS100 or SSB110

SSS175 Sociology of Organizations*3 credits; 3 hours*

This course will analyze the social structure and dynamics of large scale organizations such as the corporation, the government agency, and the labor union. It will examine the significance of these organizations in the larger world as well as investigate the social worlds which exist within these organizations. Through this course, the student will come to understand the interaction between individual personality and bureaucratic structure.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101, SSS100 or SSB110

SSS190 Sociology of the American Deaf Communities*3 credits; 3 hours*

This course examines the concepts of culture and community and their applications to the deaf and hard of hearing communities. This inquiry leads to an understanding of the implications of culture and community for the individual and to an exploration of the current economic, political, and social issues with the deaf and hard of hearing communities, as well as future directions.

Prerequisite: ENA/ENC/ENG101, SSS100 or SSB110

SSS280 Sociology of the Family*3 credits; 3 hours*

This course examines the contemporary American family from historical and cross-cultural perspectives. It considers sub-cultural variations within American society; the influence of industrial and technological changes on family life; relationship of socialization to personality development; programs to meet family needs; dating, courtship and marriage.

Prerequisite: ENA/ENG099, ESA099, ENA/ENC101, SSS100 or SSB110

Social Science Course Prerequisite for Urban Study Courses designated SSN

One of the following courses:

SSA100	Introduction to Anthropology
SSA101	Cultural Anthropology
SSE103	Introduction to Microeconomics
SSE104	Introduction to Macroeconomics
SSP101	U.S. Power and Politics
SSP250	Political Ideas and Ideologies
SSS100	Introduction to Sociology
SSY101	General Psychology
SSH101	Themes in American History to 1865
SSH102	Themes in American History since 1865
SSH103	Western Civilization from Ancient Times to the Renaissance
SSH104	Western Civilization from the Renaissance to Modern Times
SSH105	World History from Ancient Times to 1500
SSH106	World History from 1500 to the Present
SSH110	East Asia Civilization and Societies
SSH231	Afro-American History
SSH232	Survey of Latin American and Caribbean History

HEGIS CODES

All degree and certificate programs offered by LaGuardia Community College are registered with the New York State Education Department. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

The following is an official list of State approved programs, HEGIS (Higher Education General Information System) codes and approved degrees. LaGuardia Community College — New York State Institution No. 1100.

N.Y.S. Program Name	N.Y.S. Degree Approved	H.E.G.I.S. Code No.
Accounting	AS	5002
Biology	AS	5604
Business Administration	AS	5004
Civil Engineering	AS	5609
Commercial Photography	AAS	5007
Commercial Photography	CERT	5007
Communication Studies	AA	5606
Computer Science	AS	5103
Computer Technology	AAS	5105
Criminal Justice	AS	5505
New Media Technology	AAS	5199
New Media Technology Digital Media Arts	CERT	0605
Childhood Education	AA	5649
Secondary Education	AA	5649
Early Childhood Education	AA	5649
Education Associate: The Bilingual Child	AA	5503
Electrical Engineering	AS	5609
Energy Technician	AAS	5311
Environmental Science	AS	5499
Fine Arts	AS	5610
Human Services	AA	5216
Industrial Design	AAS	5303
Liberal Arts: Social Sciences & Humanities	AA	5622
Liberal Arts: Mathematics and Science	AS	5649
Mechanical Engineering	AS	5609
Music Performance	AS	5610
Music Recording Technology	AAS	5399
Network Administration and Information Security	AAS	5105
Nursing	AAS	5208.10
Nutrition and Culinary Management	AAS	5404
Occupational Therapy Assistant	AAS	5210
Paralegal Studies	AAS	5099
Paralegal Studies Certificate	CERT	5009
Paramedic	AAS	5299
Philosophy	AA	5620
Physical Sciences	AS	5619
Physical Therapist Assistant	AAS	5219
Practical Nursing	CERT	5209.20
Programming and Software Development	AAS	5103
Public and Community Health	AS	5201
Radiologic Technology	AAS	5207
Spanish-English Translation	AA	5599
Therapeutic Recreation	AS	5599
Travel, Tourism and Hospitality Management	AAS	5011.10
Veterinary Technology	AAS	5206
Writing and Literature	AA	5615

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Dr. Linda Chandler, *English Department*
Dr. Payal Doctor, *Humanities Department*
Dr. Maria Entezari, *Natural Sciences Department*
Philip Gimber, *Health Sciences Department*
Dr. Arthur Lau, *Education and Language Acquisition Department*
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Marian Blaber, *Senior Director, Language Acquisition Programs, Director, CUNY Language Immersion Program and College Prep*
Vacant, *Senior Director, Adult Community Learning*
Vacant, *Senior Director, Career Programs & Contract Training*
Linda Mellon, *Senior Director, Business Services*
Maritza Pritsos, *Senior Director ABS/Bridge to College and Careers*
Karen V. Saca, *Senior Director, Finance & Budget*
Hannah Weinstock, *Senior Director, Workforce Development*
Christine Alvarez, *Director, Pre-Hospital Care Programs*
Laura Bartovics, *Director, Grants Development Office*
Tristan Bel, *Director, NYDesigns*
Claudia Baldonado, *Director, Youth Workforce Development Initiatives*
Paula DaSilva-Michelin, *Manager, Center for Immigrant Education and Training*
Rodlens Dauphin, *Educational Services Director, 10,000 Small Businesses*
David Daza, *Director, Veterans Workforce Initiatives*
Paisley Demby, *Business Services Director, 10,000 Small Businesses*
Rosa Figueroa, *Director, Small Business Development Center*
Liesl Fores-Iza, *Communications Manager*
John Garcia, *Director, Community Health Worker Training Programs*
Adjoa Gzifa, *Director, Workforce Education Center*
Edgard Hernandez, *Director, Procurement Technical Assistance Center*
Assuanta Howard, *Executive Director, 10,000 Small Businesses*
Elizabeth Iannotti, *Director, The English Language Center*
John Lagamjis, *Director, ACE Information Technology*
Beth Lord, *Director, Career Development Center/ACE Employment Services/CUNY Fatherhood Academy*
Chandana Mahadeswaraswamy, *Associate Director, Career and Professional Programs*
Olivia Mayer, *Manager, Pre-College Academic Programming*
Emad Nassar, *Director, Student Central Intake*
Elizabeth Perdomo, *Director, Small Business Transportation Resource Center*
Lakshmi Ponappa, *Manager, Program for Deaf Adults*
Julianne Salazar, *Manager, CUNY Start/Math Start Program*
Seema Shah, *Director, Strategic Innovation and Engagement, LIC²*
George Schreiner, *Director, ACE Enrollment Management Services*
Michele Valdez, *Director, Technology Training Initiatives*
Vacant, *Director, ASL-English Interpretation Program*

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Vacant, *Associate Dean for Access and Achievement*
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